**Matematický ústav SAV, v. v. i.**   
   
   
   
   
   
   
   
   
   
   
**Výročná správa o činnosti a hospodárení**   
**za rok 2024**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
február 2025

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**ČASŤ A** **Matematický ústav SAV, v. v. i.**

**Výročná správa o činnosti organizácie**

**za rok 2024**

**1. Základné údaje o organizácii**

**1.1. Kontaktné údaje**   
   
**Názov:** [Matematický ústav SAV, v. v. i.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=27)   
**Riaditeľ:** [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2369)   
**Zástupca riaditeľa:** [prof. RNDr. Anatolij Dvurečenskij, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2372)   
**Vedecký tajomník:** [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5521)   
**Predseda správnej rady:** [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2369)   
**Predseda vedeckej rady:** [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2380)   
**Predseda dozornej rady:** [Ing. Ivana Budinská, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=3041)   
**Člen Snemu SAV:** [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=)   
**Adresa:** Štefánikova 49, 814 73 Bratislava   
   
http://www.mat.savba.sk   
   
**Tel.:** 02/ 5751 0414   
**E-mail:** mathinst@mat.savba.sk   
   
**Názvy a adresy organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

· [**Oddelenie aplikovanej matematiky**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=233)   
Štefánikova 49, 81473 Bratislava

Detašované pracoviská:

· [**Oddelenie informatiky Matematického ústavu SAV**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=85)   
Dúbravská cesta 9, 841 04 Bratislava

· [**Detašované pracovisko Matematického ústavu SAV v Košiciach**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=86)   
Grešákova 6, 040 01 Košice

· [**Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=92)   
Ďumbierska 1, 974 11 Banská Bystrica

**Vedúci organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

· [**Oddelenie aplikovanej matematiky**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=233)   
[RNDr. Tibor Žáčik, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2368)

Detašované pracoviská:

· [**Oddelenie informatiky Matematického ústavu SAV**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=85)   
[doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5701)

· [**Detašované pracovisko Matematického ústavu SAV v Košiciach**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=86)   
[RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5704)

· [**Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=92)   
[prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5699)

**Členovia Snemu SAV za organizačné zložky:**

**Typ organizácie:** Verejná výskumná inštitúcia od roku 2022

**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Štruktúra zamestnancov** | **K** | **K** | | **K  do 35  rokov** | | **F** | **P** | **T** | **O** |
| **M** | **Ž** | **M** | **Ž** |
| **Celkový počet zamestnancov** | 74 | 42 | 32 | 7 | 5 | 69 | 47.18 | 33.2 | 1.5 |
| **Vedeckí pracovníci** | 52 | 36 | 16 | 2 | 3 | 48 | 32.89 | 32.43 | 0 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 4 | 3 | 1 | 3 | 1 | 4 | 0.23 | 0.17 | 0 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 6 | 2 | 4 | 2 | 1 | 5 | 4.48 | 0 | 0.9 |
| **Odborní pracovníci ÚS** | 8 | 0 | 8 | 0 | 0 | 8 | 6.89 | 0.6 | 0.6 |
| **Ostatní pracovníci** | 4 | 1 | 3 | 0 | 0 | 4 | 2.69 | 0 | 0 |

*1 odmeňovaní podľa 553/2003 Z.z., príloha č. 5   
2 odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*   
   
*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2024 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*F – fyzický stav zamestnancov k 31.12.2024 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

*O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.*

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2024)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 5 | 31 | 6 | 13 | 5 | 14 | 17 |
| **Ženy** | 4 | 13 | 0 | 3 | 4 | 6 | 6 |

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | | **31-35** | | **36-40** | | **41-45** | | **46-50** | | **51-55** | | **56-60** | | **61-65** | | **> 65** | |
|  | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 1 | 0.0 | 1 | 1.0 | 3 | 2.2 | 3 | 3.0 | 5 | 1.9 | 4 | 2.4 | 2 | 1.1 | 4 | 2.0 | 11 | 8.4 |
| **Ženy** | 2 | 1.0 | 1 | 1.0 | 0 | 0.0 | 5 | 4.1 | 3 | 0.8 | 2 | 1.0 | 1 | 1.0 | 1 | 1.0 | 2 | 1.5 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov   
B - Prepočet so zohľadnením úväzkov zamestnancov*   
   
Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
| **Muži** | 53.8 | 56.8 | 56.6 |
| **Ženy** | 50.5 | 49.1 | 48.6 |
| **Spolu** | 52.3 | 54.4 | 54.0 |

**1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie   
 (v zameraní, v personálnej štruktúre a pod.)**

Dňa 1.1.2022 Matematický ústav SAV zmenil sa z rozpočtovej formy hospodárenia na vedeckú výskumnú inštitúciu a je to Matematickú ústav SAV, v. v. i.

V roku 2022 prebehla periodická evaluácia ústavov SAV za roky 2016—2021. V roku 2022 prebehlo tiež Periodické hodnotenie výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti, ktoré organizovalo Ministerstvo školstva, vedy, výskumu a športu SR, kde sa hodnotila publikačná činnosť v oblasti matematiky za roky 2015—2019, podľa ktorého MÚ SAV, v.v.i. mal 8 % svetovú úroveň, 32 % významnú svetovú úroveň, 32 % medzinárodnú úroveň a 12 % národnú úroveň. Tým sa zaradilo medzi významné matematické pracoviská SR včítane slovenských univerzít. Vzhľadom na dobré hodnotenie v rámci MŠVVŠ SR, sme mohli vypísať medzinárodné konkurzy na získanie pozície na MÚ SAV, v. v. i. Boli sme úspešní a v r. 2024 sme získali dve miesta, na jedno prišla mladá postdoktorandka zo Španielska.

Od 1. augusta 2022 nastúpil na MÚ SAV, v. v. i. na 36 mesiacov Dr. Omid Zahiri, Teherán, Irán, ako štipendista SASPRO II, ktorý je financovaný European Union's Horizon 2020Research and Innovation Programme základe projektu Marie Sklodowska-Curie. Dr. Zahiri pokračuje vo svojom projekte v rámci štipendia SASPRO.

V priebehu roka 2024 nastúpili na doktorandské štúdium jeden doktorand z Egypta, ktorý už začal aj publikovať, jeden doktorand z Pakistanu a ďalší ďoktorand z Pakistanu bol prijatý s nástupom 1.1.2025. Zo Slovenska nastúpili dvaja uchádzači o doktorandské štúdium, z toho jeden na externé štúdium..

V rámci Týždňa vedy, november 2024, sme na MÚ SAV, v. v. i. zorganizovali Deň otvorených dverí. Na prednáškach pre študentov sa podieľali pracovníci v Bratislave ako aj na pobočke v Košiciach. Dr. E. Halušková organizovala matematické prednášky pre žiakov základných škôl.

Časopis Mathematica Slovaca má impaktový faktor IF(2023)=0,9, čím sa dostal do 2. kvartilu v sekcii matematika. Päťročný impakt faktor je 0.9. V databáze Scopus má časopis SJR(2023) = 0.404, ktorý je mierne znížený oproti SJR(2022)=0.418, (Scimago Journal Ranking), Cite Score =2.1 a je v 2. kvartile. Počet zaslaných článkov v r. 2024 bol okolo 780.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR(2022)=0,275 (Scimago Journal Ranking), Cite Score = 1.0 a je v 3. kvartile.

V spolupráci s Trnavskou univerzitou a spoločnosťou Merchant, s.r.o. sme pokračovali v riešení grant InoCHF -Výskum a vývoj v oblasti inovatívnych technológií a manažmente pacientov s CHF(ITMS-2014+NFP313011BWH2), ktorého financovanie bolo už ukončené.

Začali sme riešenie projektu Plánu obnovy 09I05-03-V02-00084, *Digital solutions in support of mental health in patients with CHF*, ako hlavný riešiteľ od 1. 4. 2024 v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o. Projekt bude financovaný v roku 2025, 2026 a rok 2024 bude spätne prefinancovaný.

**2. Vedecko-výskumná činnosť – projekty, výsledky**

**2.1. Domáce projekty**   
   
Tabuľka 2a Domáce projekty riešené v roku 2024

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet** | | **Čerpané financie (€)** | | | | | |
| **A** | **B** | **A** | | | | **B** | |
| **Zo zdrojov SAV** | | **Z iných zdrojov** | | **Zo zdrojov SAV** | **Z iných zdrojov** |
| **Spolu** | **Pre  organi-  záciu** | **Spolu** | **Pre  organi-  záciu** |
| **1. Projekty VEGA** | 11 | 2 | 62488 | 60346 | - | - | 2088 | - |
| **2. Projekty APVV** | 2 | 7 | - | - | 57706 | 38596 | - | 54203 |
| **3. Projekty EŠIF/OP ŠF,   Plán obnovy EÚ** | 3 | 0 | - | - | 73711 | 73711 | - | - |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 1 | 0 | - | - | 54347 | 54347 | - | - |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 0 | 0 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2024

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2024** | - | 1 | 1 |
| **2. Projekty výziev EŠIF podané**  **r. 2024** | Bratislava |  |  |
| Regióny |  |  |

* Advances in the qualitative theory of ordinary, partial, and fractional differential equations   
  (I. Jadlovská).
* Globálne existenciálne riziká a ich dopady na ekonomiku a spoločnosť (nositeľ: EÚ SAV)

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2024**

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet** | | **Čerpané financie (€)** | | | | | |
| **A** | **B** | **A** | | | | **B** | |
| **Zo zdrojov SAV** | | **Z iných zdrojov** | | **Zo zdrojov SAV** | **Z iných zdrojov** |
| **Spolu** | **Pre  organi-  záciu** | **Spolu** | **Pre  organi-  záciu** |
| **1. Projekty Horizont 2020 a   Horizont Európa** | 0 | 0 | - | - | - | - | - | - |
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 0 | - | - | - | - | - | - |
| **3. Projekty COST** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty EUREKA, NATO,   UNESCO, CERN, IAEA, IVF,   ERDF a iné** | 0 | 0 | - | - | - | - | - | - |
| **5. Projekty v rámci medzivládnych   dohôd** | 0 | 0 | - | - | - | - | - | - |
| **6. Bilaterálne projekty MAD,   Mobility, Open Mobility** | 0 | 0 | - | - | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | - | - | - | - | - | - |
| **8. Podpora MVTS z národných   zdrojov (SAV, APVV a iné)** | 0 | 0 | - | - | - | - | - | - |
| **9. SAS-UPJŠ ERC Visiting   Fellowship Grants** | 0 | 0 | - | - | - | - | - | - |
| **10. Iné projekty** | 0 | 0 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

**2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2024**

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

|  |  |  |
| --- | --- | --- |
|  | **A** | **B** |
| **Počet podaných projektov Horizont Európa** |  |  |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

*Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.*

**2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach**

V roku 2025 bude podpísaná zmluva o partnerstve na riešenie projektu Plánu obnovy 09I05-03-V02-00084, Digital solutions in support of mental health in patients with CHF, ako hlavný riešiteľ MÚ SAV, od 1. 4. 2024, v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o. Projekt bude financovaný v roku 2025 a 2026 s celkovým objemom zhruba 1 milión EUR

Ďalej predpokladáme podať ďalšie granty v oblasti aplikácií matematike v medicíne a doprave.

**2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024**

*Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.*

**2.3.1. Výsledky na báze základného výskumu**

**Popis štruktúry špeciálnych nekomutatívnych asociatívnych funkcií**

Podarilo sa nám charakterizovať všetky pseudo-uninormy so spojitými pridruženými funkciami, definované na jednotkovom intervale, pomocou ich rozkladu cez Cliffordov ordinálny súčet. Každá takáto pseudo-uninorma sa dá rozložiť na reprezentovateľné a triviálne pologrupy, a špeciálne pologrupy definované na dvoch bodoch, kde príslušná pologrupová operácia je projekcia na jednu zo súradníc. Tiež sme charakterizovali lineárne usporiadania, pre ktoré je ordinálny súčet takýchto pologrúp pseudo-uninormou.

V ďalšej práci sa nám podarilo charakterizovať idempotentné pseudo-*n*-uninormy, ktoré sú nekomutatívnou verziou idempotentných *n*-uninoriem. Najskôr sme charakterizovali idempotentné pseudo-*2*-uninormy pomocou ich rozkladu na idempotentnú pseudo-uninormu a špeciálnu idempotentnú pseudo-*2*-uninormu, pre ktorú je deliaci bod z (ľavým/pravým) anihilátorom. Tiež sme ukázali štruktúru združeného usporiadania náležiaceho pseudo-*2*-uninorme. Tieto výsledky sme potom použili pri charakterizácii všetkých idempotentných pseudo-*n-*uninoriem, ktoré sme rozložili na základe ich množiny ľavých (pravých) anihilátorov a Cliffordovho ordinálneho súčtu. Získané výsledky ukazujú, že štruktúra pseudo-*n*-uninoriem je výrazne odlišná od štruktúry *n*-uninoriem a vo všeobecnosti idempotentná pseudo-*n*-uninorma nemôže byť rozložená pomocou *z*-ordinálneho súčtu.

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**Projekty:** VEGA 1/0036/23, APVV-20-0069.

**Referencie:**

1. J. Kalafut, **A. Mesiarová-Zemánková,** Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum, Information Sciences 690, (2025), 121573.

2. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-*n*-uninorms – Part I, Fuzzy Sets and Systems (zaslané).

3. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-*n*-uninorms – Part II, Fuzzy Sets and Systems (zaslané).

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**Description of the structure of special non-commutative associative functions**

We have shown the decomposition of all pseudo-uninorms with continuous underlying functions, defined on the unit interval, via Clifford's ordinal sum. Each such pseudo-uninorm can be decomposed into representable and trivial semigroups, and special semigroups defined on two points, where the corresponding semigroup operation is the projection to one of the coordinates. Linear orders, for which the ordinal sum of such semigroups yields a pseudo-uninorm, were also characterized.

We have also characterized idempotent pseudo-*n*-uninorms, which represent a non-commutative version of idempotent *n*-uninorms. First, we have characterized idempotent pseudo-*2*-uninorms by their decomposition into an idempotent pseudo-uninorm and a special idempotent pseudo-*2*-uninorm, for which the division point *z* is a (left/right) annihilator. We have also shown the structure of a pair-order related to an idempotent pseudo-*2*-uninorm. These results were then used in the characterization of all idempotent pseudo-n-uniforms, which were decomposed according to their set of the left (right) annihilators and Clifford's ordinal sum. The achieved results reveal that the structure of pseudo-*n*-uninorms is significantly different from that of *n*-uninorms and general pseudo-*n*-uninorms cannot be decomposed via *z*-ordinal sum.

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**Projects:** VEGA 1/0036/23, APVV-20-0069.

**References:**

1. J. Kalafut, **A. Mesiarová-Zemánková,** Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum, Information Sciences 690, (2025), 121573.

2. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-n-uninorms – Part I, Fuzzy Sets and Systems (submitted).

3. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-n-uninorms – Part II, Fuzzy Sets and Systems (submitted).

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**Reprezentácia a vnorenie pseudo MV-algebier so odmocninou**

Pokračovali sme vo výskume pseudo MV-algebier s odmocninou, koncentrujúc sa na ich nové charakterizácie. Práca je rozdelená na dve časti. V prvej časti skúmame vzťah medzi pseudo MV-algebrou s odmocninou a jej reprezentujúcou unitálnou l-grupou s vlastnosťou 2-deliteľnosti. Charakterizovali sa nestriktné druhé odmocniny na (H,1)-perfektných pseudo MV-algebrách. V druhej časti sme našli podmienky keď určité triedy pseudo MV-algebier môžu byť vnorené do pseudo MV-algebier s odmocninou. Zaviedli sme pojem striktnej odmocniny a odmocninového uzáveru. Ukázali sme, že každá MV-algebra má odmocninový uzáver. Okrem toho sa skúmali individuálne prvky pseudo MV-algebry a našla sa najväčšia podalgebra špeciálnej pseudo MV-algebry so slabou odmocninou.

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**Projekty:** APVV-20-0069, VEGA No. 2/0142/20 SAV, SASPRO 2, projekt 1048/01/01

**Referencie:**

1. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 499-527.

2. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots II. Closures*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 529--563.

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**Representation and embedding of pseudo MV-algebras with square roots**

In the research, we continue to investigate pseudo MV-algebras with square roots, focusing on their new characterizations. The paper is divided into two parts. In the first part, we investigate the relationship between a pseudo MV-algebra with a square root and its corresponding unital l-group in the scene of two-divisibility. We characterize strict and non-strict square roots, and we describe square roots on strongly (H,1)-perfect pseudo MV-algebras. In the second part, we find some conditions under which a particular class of pseudo MV-algebras can be embedded into pseudo MV-algebras with square roots. We introduce and investigate the concepts of a strict square root of a pseudo MV-algebra and a square root closure, and we compare both notions. We show that each MV-algebra has a square root closure. Finally, using the square root of individual elements of a pseudo MV-algebra, we find the greatest subalgebra of a special pseudo MV-algebra with weak square root.

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**Projects:** APVV-20-0069, VEGA No. 2/0142/20 SAV, SASPRO 2, project 1048/01/01

**References:**

1. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 499-527.

2. **A. Dvurečenskij,** **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots II. Closures*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 529--563.

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**O retraktových varietách algebier**

Duffus, Rival a ďalší autori študovali triedy čiastočne usporiadaných množín, ktoré sú uzavreté na izomorfizmy, retrakty a direktné súčiny. Jakubík nazval triedy algebier s týmito uzáverovými vlastnosťami retraktovými varietami a zaoberal sa retraktovými varietami zväzovo-usporiadaných grúp.

Ak je retraktová varieta generovaná jednou algebrou, tak sa nazýva hlavná a ak je retraktová varieta generovaná množinou algebier sa nazýva množinovo-hlavná.

Dokázali sme, že

1. nie každá množinovo-hlavná retraktová varieta je hlavná a
2. b) nie každá retraktová varieta je množinovo-hlavná.

Konštruktívne sme popísali triedu súvislých monounárnych algebier S takú, že každá retraktová varieta monounárnych algebier je generovaná algebrami, ktoré majú nanajvýš dva navzájom izomorfné komponenty a ktorých všetky komponenty patria do S.

Množinovo-hlavné retraktové variety sme charakterizovali pomocou stupňov prvkov monounárnych algebier.

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**Projekty**: VEGA 1/0152/22, VEGA 2/0104/24

**Referencia**:

**E. Halušková,** D. Jakubíková-Studenovská: ON RETRACT VARIETIES OF ALGEBRAS, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (RACSAM alebo RCSM), pp.18.

Publikované na https://doi.org/10.48550/arXiv.2404.10885

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**On retract varieties of algebras**

Duffus, Rival, and others studied classes of partially ordered sets that are closed under isomorphisms, retracts, and direct products. Jakubík called classes of algebras with these closure properties retract varieties and dealt with retract varieties of lattice-ordered groups. Let a principal retract variety be generated by one algebra and a set-principal retract variety be generated by some set of algebras.

We have proven that

1. not each set-principal retract variety is principal, and
2. (b) not each retract variety is set-principal.

A class of connected monounary algebras S such that every retract variety of monounary algebras is generated by algebras that have all connected components from S and at most two connected components are isomorphic was constructively described. We characterized all set-principal retract varieties of monounary algebras via the degree function of monounary algebras.

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**Projects**: VEGA grants 1/0152/22 and 2/0104/24

**Reference**:

E. Halušková, D. Jakubíková-Studenovská: ON RETRACT VARIETIES OF ALGEBRAS, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (RACSAM alebo RCSM), pp.18.

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**2.3.2. Výsledky aplikačného typu**

**Moderné technické riešenia pre riadenie hraníc (mobilné, dátové, odberové a analytické centrum)**

Výskum bol realizovaný v rámci projektu 101102709 - HSQA "Maďarský, slovenský rozvoj mechanizmu zabezpečovania kvality pre riadenie hraníc", spolufinancovaného Európskou úniou.

Táto práca reflektuje súčasný stav zberu, analýzy a vyhodnocovania dát z moderných ochranných a diagnostických systémov pre potreby riadenia hraníc Slovenskej republiky, prípadne Európskej únie a schengenského priestoru. Hlavným cieľom je návrh, vývoj a automatizácia mobilného riadiaceho a testovacieho centra s využitím bezpečnostných a diagnostických systémov. Dizajn tohto centra využíva moderné technické zariadenia a riadiace systémy a ich vzájomnú integráciu s ohľadom na minimalizáciu fyzického kontaktu medzi cestujúcimi a úradníkmi vykonávajúcimi kontrolu. Navrhujú sa niektoré riešenia integrujúce hardvérové a softvérové prostriedky na zber a analýzu dát zo senzorických subsystémov. Zozbierané výstupy meraní sú podrobené lokálnej alebo vzdialenej expertnej analýze. Účelom tejto analýzy je vyhodnotiť stupeň bezpečnosti/rizika subjektu pre povolenie alebo odmietnutie vstupu. Očakáva sa výrazné zvýšenie ochrany pri vstupe na územie SR. Získané výsledky vykazujú vhodné predpoklady pre celkové zlepšenie bezpečnosti, optimalizácie a efektívnosti procesov riadenia schengenských hraníc.

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**Projekt**: VEGA 2/0120/24  
**Referencia**: I. Košč, **M. Koščová**, P. Stolárik, J. Mokrá, /Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center)/ Határrendészeti tanulmányok, vol. **21**, no. 4 (2024), p. 105-117. ISSN 2061-3997  
<https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/Hatrend_Tan_2024_4_k%C3%BCl%C3%B6nszam_HSQA_v.pdf>

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**Modern technical solutions for border control (mobile, data, collection and analysis center)**

The research was carried out in the framework of project 101102709 - HSQA „Hungarian, Slovak development of quality assurance mechanism on border management,” co-funded by the European Union.

This work reflects the current state of collection, analysis, and evaluation of data from modern protection and diagnostic systems for the needs of the border management of the Slovak Republic, or of the European Union and the Schengen area. The main goal is the design, development, and automation of a mobile control and test center, using security and diagnostic systems. The design of this center uses modern technical devices and control systems and their mutual integration regarding the minimization of physical contact between the passengers and the officials carrying out the control. Some solutions integrating hardware and software means for collecting and analysing data from sensory subsystems are proposed. The collected measurement outputs are subjected to local or remote expert analysis. The purpose of this analysis is to evaluate the degree of safety/risk of the subject for allowance or denial of entry. A significant increase in protection when entering the territory of the Slovak Republic is expected. The obtained results show suitable prerequisites for an overall improvement in the security, optimization, and efficiency of the Schengen border management processes.

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**Project**: VEGA 2/0120/24  
**Reference**: I. Košč, **M. Koščová**, P. Stolárik, J. Mokrá, /Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center)/ Határrendészeti tanulmányok, vol. **21**, no. 4 (2024), p. 105-117. ISSN 2061-3997

<https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/Hatrend_Tan_2024_4_k%C3%BCl%C3%B6nszam_HSQA_v.pdf>

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**Automatická klasifikácia textov založená na syntaktických funkciách**

Napriek tomu, že výskum klasifikácie textov pomocou syntaktických funkcií má históriu dlhú niekoľko desaťročí, dostatočne presná automatická anotácia je k dispozícii len niekoľko rokov. Preto je dnes možné aplikovať metódy automatickej klasifikácie na oveľa väčšie a rôznorodejšie súbory textov. Táto práca klasifikuje rôzne typy textov v češtine, používajúc pritom relatívne frekvencie tých syntaktických funkcií, ktoré sú definované v korpuse Prague Dependency Treebank. Ako jazykový materiál je použitý veľký vyvážený korpus súčasnej češtiny SYN2020. Vzdialenosti medzi textami sú počítané pomocou kosínusovej delta metódy, potom je na tieto vzdialenosti aplikovaná hierarchická analýza zhlukov. Výsledky ukazujú, že využitie syntaktických funkcií pomáha automaticky klasifikovať rôzne textové žánre.

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**Referencia:** Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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**Automatic text classification based on syntactic functions**

Although research has been conducted on text classification based on syntactic features for decades, the recent development of accurate automatic syntactic taggers has enabled scholars to apply the methods to much larger and more diverse datasets than before. This study aims to classify various text types in the Czech language using relative frequencies of syntactic functions, as they are defined in the Prague Dependency Treebank. A large balanced corpus of contemporary written Czech SYN2020 is used as the language material. The distances between texts are calculated using the Cosine Delta method, and then a hierarchical cluster analysis is performed. The results indicate that syntactic functions can contribute to automatic genre classification based on large empirical language data.

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**Reference:** Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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**Nový rámec pre fitovanie nanointendančnej krivky a odhad neistoty merania**

Je dobre známe, že kvantifikácia neistoty je dôležitou súčasťou každého procesu merania a je nevyhnutná na porovnávanie výsledkov získaných rôznymi metódami, prístrojmi alebo laboratóriami. Spracovanie nameraných údajov často vyžaduje prispôsobenie údajov danej funkcii (fitovanie). Bežné metódy ako sú obyčajné nelineárne metódy najmenších štvorcov nie sú schopné spracovávať všeobecné neistoty a korelácie v závislých aj nezávislých premenných. Je zavedená nová výpočtová metóda na prispôsobenie nelineárnej krivky údajom so všeobecnou kovariančnou štruktúrou (OEFPIL). Táto metóda je aplikovaná na Oliverovu-Pharrovu analýzu klesajúcich kriviek a na analýzu rozdielov medzi riešeniami pomocou rôznych regresných metód. Numerické simulácie ukazujú, že nová metóda prináša odhady parametrov v súlade s inými metódami pre jednoduché kovariančné štruktúry. Získané odhady neistoty sú v dobrej zhode so simuláciami metódou Monte Carlo.

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Projekty:** GA 19-15240S (Czech Science Foundation), TJ02000203 (Technology Agency of the Czech Republic)  
**Referencia:** Charvártová Cambel, A., Geršlová, Z., Šindlář, V., Šlesinger, R., **Wimmer, G.** *New framework for nanoindentation curve fitting and measurement uncertainty estimation.* Precision Engineering, Journal of the International Societies for Precision Engineering and Nanotechnology. **85** (2024), 166-173.

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**New framework for nanoindentation curve fitting and measurement uncertainty estimation**

It is well-known that uncertainty quantification is an important part of any measurement process and is essential for comparing results obtained by different methods, instruments, or laboratories. Processing of measured data often requires fitting the data to a given function. Conventional methods, such as ordinary nonlinear least squares methods, are unable to handle general uncertainties and correlations in both dependent and independent variables. A new computational method for nonlinear curve fitting to data with generalized covariance structure (OEFPIL) is introduced. This method is applied to Oliver-Pharr analysis of descending curves and to the analysis of differences between solutions using various regression methods. Numerical simulations show that the new method yields parameter estimates consistent with other methods for simple covariance structures. The uncertainty estimates obtained are in good agreement with Monte Carlo simulations.

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Projects:** GA 19-15240S (Czech Science Foundation), TJ02000203 (Technology Agency of the Czech Republic)  
**References:** Charvártová Cambel, A., Geršlová, Z., Šindlář, V., Šlesinger, R., **Wimmer, G. ,** *New framework for nanoindentation curve fitting and measurement uncertainty estimation.* Precision Engineering, Journal of the International Societies for Precision Engineering and Nanotechnology. **85** (2024), 166-173.

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**Jednoduchý maticový model vypuknutia epidémie zahrnujúci očkovanie dvoch vekových skupín.**

Odvodili sme separovateľný a neseparovateľný maticový model exponenciálnej fázy epidémie vhodný pre analýzu vplyvu vakcinácie vo vekovo heterogénnej populácii. Preskúmali sme vzťahy navrhovaných modelov a odvodili vzťahy pre výpočet reprodukčných čísel týchto modelov. Odvodili sme podmienky za ktorých možno porovnaním reprodukčných čísel porovnať rýchlosť rastu hospitalizácii a navrhli explicitný postup pre určenie optimálnej vakcinačnej stratégie pri ktorej sa eliminuje exponenciálny rast nakazených s použitím minimálneho množstva vakcín. Okrem toho sme bližšie preskúmal vplyv kontaktnosti mladej populácie na optimálne prerozdelenie obmedzeného množstva vakcín.

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Projekt:** Ústavný projekt.

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**A simple matrix model of epidemic outbreak involving the vaccination of two age groups**

We derived separable and non-separable matrix models of the exponential phase of the epidemic suitable for analyzing the impact of vaccination in an age-heterogeneous population. We examined the relationships of the proposed models and derived relations for calculating the reproduction numbers of these models. We derived the conditions under which the growth rate of hospitalizations can be compared by comparing reproduction numbers and proposed an explicit procedure for determining the optimal vaccination strategy that eliminates the exponential growth of infected people using the minimum amount of vaccines. In addition, we examined in more detail the impact of the contact rate of the young population on the optimal redistribution of the limited amount of vaccines.

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Project:** Institutional project.

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**2.3.3. Výsledky na báze medzinárodnej spolupráce**

**Periodické a asymptotické riešenia vo vzbudených pomaly sa meniacich nespojitých diferenciálnych rovniciach.**

V [1, 2] sme odvodili podmienky Melnikovovho typu pre perzistenciu periodických riešení vo vzbudených pomaly sa meniacich nespojitých diferenciálnych rovniciach (PSVDDE). Predpokladáme, že nevzbudená/stacionárna rovnica má triedu periodických riešení v závislosti od niektorých parametrov. Výsledky týchto prác zahŕňajú dvojrozmernú Hamiltonovskú triedu nehladkých systémov v závislosti od skalárnej premennej, ktorá je riešením singulárne vzbudenej rovnice. Odvodíme v [3] podmienky Melnikovovho typu pre perzistenciu heteroklinicky asymptotických riešení v PSVDDE a prezentujeme výsledky pre planárne nespojité diferenciálne rovnice s pomaly sa meniacimi koeficientmi. V [4] nachádzame podmienky Melnikovovho typu pre perzistenciu heteroklinicky asymptotických riešení v PSVDDE, keď oproti [3] predpokladáme, že nevzbudená/stacionárna rovnica má parametrický systém heteroklinicky asymptotických riešení. Zostrojíme príklad trojrozmernej Hamiltonovskej nespojitej rovnice. V [5] študujeme existenciu heteroklinicky asymptotických riešení pre nespojité Kurland-Leviho diferenciálne rovnice s pomaly sa meniacimi koeficientmi vznikajúcimi pri modelovaní rastu populácie.

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**Projekt:** VEGA 2/0062/24  
**Referencie:**

[1] F. Battelli, **M. Fečkan**: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 463-496.

[2] F. Battelli, **M. Fečkan:** Correction: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 2999-3010.

[3] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations, Journal of Differential Equations **400** (2024), 314-375.

[4] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case, Electronic Journal of Qualitative Theory of Differential Equations **27** (2024), 1-30.

[5] F. Battelli, **M. Fečkan,** J.R. Wang: On existence of heteroclinic connections in discontinuous Kurland-Levi differential equations with slowly varying coefficients, International Journal of Bifurcation and Chaos, online ready.

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**Periodic and asymptotic solutions in perturbed slowly varying discontinuous differential equations.**

We derive in [1, 2] Melnikov type conditions for the persistence of periodic solutions in perturbed slowly varying discontinuous differential equations (PSVDDEs). We assume that the unperturbed/frozen equation has a family of periodic solutions depending on some parameters. Results of these papers involve a two-dimensional Hamiltonian family of non-smooth systems depending on a scalar variable which is the solution of a singularly perturbed equation. We obtain in [3] Melnikov type conditions for the persistence of heteroclinic solutions in PSVDDEs and present results for planar discontinuous differential equations with slowly varying coefficients. We find in [4] Melnikov type conditions for the persistence of heteroclinic solutions in PSVDDEs when opposite to [3], we assume that the unperturbed/frozen equation has a parametric system of heteroclinic solutions. We construction an example of a three-dimensional Hamiltonian discontinuous equation. We study in [5] the existence of heteroclinic solutions for discontinuous Kurland-Levi differential equations with slowly varying coefficients arising in population growth modelling.

**Authors:** F. Battelli (Univ. Ancona, Italy), **M. Fečkan (MÚ SAV, v.v.i. FMFI UK),** J.R. Wang (Guizhou University, Guiyang, China)  
**Project:** VEGA 2/0062/24  
**References:**

[1] F. Battelli, **M. Fečkan**: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 463-496.

[2] F. Battelli, **M. Fečkan:** Correction: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 2999-3010.

[3] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations, Journal of Differential Equations **400** (2024), 314-375.

[4] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case, Electronic Journal of Qualitative Theory of Differential Equations **27** (2024), 1-30.

[5] F. Battelli, **M. Fečkan,** J.R. Wang: On existence of heteroclinic connections in discontinuous Kurland-Levi differential equations with slowly varying coefficients, International Journal of Bifurcation and Chaos, online ready.

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**Kvantové Rényiho divergencie vo von Neumannových algebrách**

α-z-Rényiho divergencie boli zavedené ako parametrizovaná trieda verzií klasických Rényiho divergencií pre dvojice matíc hustoty. Táto trieda obsahuje známe kvantové Rényiho divergencie, a síce divergencie Petzovho typu (štandardné) a minimálne (sendvičové) kvantové Rényiho divergencie, ktoré sú dôležité pre asymptotickú teóriu testovania hypotéz. V článku študujeme rozšírenie α-z-Rényiho divergencií pre normálne stavy na von Neumannových algebrách pomocou teórie nekomutatívnych Lp-priestorov a komplexnej interpolácie. Dokázali sme, že oblasť parametrov, pre ktoré sú tieto veličiny nerastúce vzhľadom na kvantové kanály je taká istá ako v špeciálnom prípade maticových algebier. Navyše, ako sme ukázali, pre ľubovoľnú veličinu vnútri tejto oblasti platí, že je zachovaná kvantovým kanálom práve vtedy, ak je daný kanál reverzibilný vzhľadom na danú dvojicu stavov. Taktiež sme študovali monotónnosť týchto veličín vzhľadom na parametre a dokázali sme, že limita pre α→1 je Arakiho relatívna entropia, ktorá je v tomto kontexte fundamentálnou kvantovou relatívnou entropiou.

**Autori:** Fumio Hiai, Tohoku University, Japan, **A. Jenčová (MÚ SAV, v.v.i.)  
Projekty:**  VEGA 2/0128/24, APVV-20-0069  
**Referencia:** F. Hiai, **A. Jenčová,** α-z-Rényi divergences in von Neumann algebras: data-processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics **405**, (2024), Art. Num. https://doi.org/10.1007/s00220-024-05124-1

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**Quantum Rényi divergences in von Neumann algebras**

The α-z-Rényi divergences were introduced as a parametrized family of versions of the classical Rényi divergence for pairs of density matrices. This family contains two important quantum Rényi divergences, namely the Petz-type (standard) and the minimal (sandwiched) quantum Rényi divergence, which were shown to be fundamental in asymptotic hypothesis testing. We studied the extension of the α-z-Rényi divergences and their properties in the general framework of normal states on von Neumann algebras, using the theory of noncommutative Lp-spaces and complex interpolation. In particular, we proved that the range of parameters for which these quantities do not increase under quantum channels is the same as in the special case of matrix algebras. Moreover, we have shown that for a pair of normal states, any quantity inside the range is preserved by a channel if and only if the channel is reversible on the states. We also studied the monotonicity of the quantities in the two parameters and proved that the limit for α→1 is the Araki relative entropy, which is seen as the fundamental quantum relative entropy in this context.

**Authors:** Fumio Hiai, Tohoku University, Japan, **A. Jenčová (MÚ SAV, v.v.i.)  
Projects:**  VEGA 2/0128/24, APVV-20-0069  
**Reference:** F. Hiai, **A. Jenčová,** α-z-Rényi divergences in von Neumann algebras: data-processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics **405**, (2024), Art. Num. https://doi.org/10.1007/s00220-024-05124-1

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**Globálne správanie riešení v chemotaktických systémoch s rôznymi vplyvmi**

Chemotaxia označuje jav, pri ktorom organizmy alebo bunky vykonávajú smerový pohyb stimulovaný určitými chemickými látkami, vrátane pohybu smerom k oblastiam alebo od oblastí s vysokými koncentráciami chemických podnetov. Tento jav má veľký význam pre skúmanie fylogenetických mechanizmov živých organizmov. Získané výsledky sú zamerané na pokrok v matematickom modelovaní chemotaktických systémov. Zahrnutím rôznych zložitých interakcií, ako sú nelineárna samodifúzia, krížová difúzia, nelineárny vplyv produkcie a konkurenčná kinetika, v našich prácach rozširujeme klasický Kellerov–Segelov model o biologicky realistickejšie scenáre.

Konkrétne sme skúmali:

1. Príťažlivo-odpudivé (atrakčno-repulzné) modely chemotaxie zahŕňajúce nelineárne citlivosti závislé od signálu a rôzne logistické zdroje pre dynamiku hustoty buniek; nelineárnu samodifúziu, krížovú difúziu a logistické zdroje pre dynamiku hustoty buniek, a nelineárny vplyv produkcie pre koncentrácie chemických signálov

2. Modely súťaže dvoch druhov v chemotaxii zahŕňajúce citlivosti závislé od signálov pre dynamiku dvoch druhov a nepriamy vplyv spotreby signálov na koncentrácie chemických signálov; difúziu a citlivosti závislé od signálov, Lotka-Volterrovu konkurenčnú kinetiku pre dynamiku dvoch druhov a nelineárny vplyv produkcie signálov pre ich zodpovedajúce chemoatraktanty.

Každá práca prispieva novými teoretickými výsledkami odvodením postačujúcich podmienok pre existenciu globálneho riešenia, resp. kolaps riešenia v konečnom čase, ako aj energetickú analýzu, čím obohacuje súčasnú literatúru o chemotaktických systémoch.

**Autori:** Jiao, Zhan (Shandong University, Jinan, Shandong, China), **I. Jadlovská (MÚ SAV, v.v.i.)**, Tongxing Li (Shandong University, Jinan, Shandong, China)  
**Projekty:** NNSF of P. R. China (Grant No. 61503171), CPSF, China (Grant No. 2015M582091), NSF of Shandong Province, China (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII), Slovakia for the project 313011BWH2: “InoCHF–Research and development in the field of innovative technologies in the management of patients with CHF”, co-financed by the European Regional Development Fund.  
**Referencie:**

1. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Global existence in a fully parabolic attraction-repulsion chemotaxis system with singular sensitivities and proliferation.* Journal of Differential Equations **411** (2024), 227-267.

2. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Finite-time blow-up and boundedness in a quasilinear attraction–repulsion chemotaxis system with nonlinear signal productions.* Nonlinear Analysis: Real World Applications **77** (2024), 104023.

3. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Boundedness and stabilization in a two-species chemotaxis-competition system with signal-dependent sensitivities and indirect signal consumption.* Journal of Mathematical Analysis and Applications **540** (2024), 128546.

4. Jiao, Zhan, I. Jadlovská, and Tongxing Li. *Global Behavior in a Two-Species Chemotaxis-Competition System with Signal-Dependent Sensitivities and Nonlinear Productions.* Applied Mathematics & Optimization **90** (2024), 11.

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**Global behavior of solutions in chemotaxis systems with different effects**

Chemotaxis refers to a common phenomenon in which organisms or cells make directional movements stimulated by certain chemicals, including moving towards or away from places with high concentrations of chemical stimuli, which is of great significance to explore the phylogenetic mechanism of life systems. Our results are focused on advancing the mathematical modeling of chemotaxis systems. By incorporating various complex interactions such as nonlinear self-diffusion, cross-diffusion, nonlinear production impact, and competitive kinetics, our work extends classical Keller–Segel models to address biologically more realistic scenarios.

In particular, we investigated:

1. attraction-repulsion chemotaxis models involving: nonlinear signal-dependent sensitivities and different logistic sources for the dynamics of the cell density; nonlinear self-diffusion, cross-diffusion coefficients and logistic source, for the dynamics of the cell density, and nonlinear productions impact, for the chemical signals concentrations.

2. two-species chemotaxis-competition models involving: signal-dependent sensitivities for the dynamics of the two species and indirect signal consumption impacts for the chemical signal concentration ; signal-dependent diffusion and sensitivities, Lotka-Volterra competitive kinetics for the dynamics of the two species, and nonlinear signal productions impacts for their corresponding chemoattractant concentration.

Each study contributes novel theoretical results by deriving sufficient conditions for global boundedness, finite-time blow-up, and energy analysis, thereby enriching the current literature on chemotaxis systems.

**Authors:** Jiao, Zhan (Shandong University, Jinan, Shandong, China), **I. Jadlovská (MÚ SAV, v.v.i.)**, Tongxing Li (Shandong University, Jinan, Shandong, China)  
**Projects:** NNSF of P. R. China (Grant No. 61503171), CPSF, China (Grant No. 2015M582091), NSF of Shandong Province, China (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII), Slovakia for the project 313011BWH2: “InoCHF–Research and development in the field of innovative technologies in the management of patients with CHF”, co-financed by the European Regional Development Fund.

**References:**

1. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Global existence in a fully parabolic attraction-repulsion chemotaxis system with singular sensitivities and proliferation.* Journal of Differential Equations **411** (2024), 227-267.

2. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Finite-time blow-up and boundedness in a quasilinear attraction–repulsion chemotaxis system with nonlinear signal productions.* Nonlinear Analysis: Real World Applications **77** (2024), 104023.

3. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Boundedness and stabilization in a two-species chemotaxis-competition system with signal-dependent sensitivities and indirect signal consumption.* Journal of Mathematical Analysis and Applications **540** (2024), 128546.

4. Jiao, Zhan, I. Jadlovská, and Tongxing Li. *Global Behavior in a Two-Species Chemotaxis-Competition System with Signal-Dependent Sensitivities and Nonlinear Productions.* Applied Mathematics & Optimization **90** (2024), 11.

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**2.4. Publikačná činnosť** (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2024/ doplnky z r. 2023** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich   vydavateľstvách** (AAB, ABB) | **0 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných   vydavateľstvách** (AAA, ABA) | **1 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané   v domácich vydavateľstvách** (BAB, ACB, CAB) | **0 / 0** |
| **4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané   v zahraničných vydavateľstvách** (BAA, ACA, CAA) | **0 / 0** |
| **5. Kapitoly vo vedeckých monografiách vydaných v domácich   vydavateľstvách** (ABD) | **0 / 0** |
| **6. Kapitoly vo vedeckých monografiách vydaných v zahraničných   vydavateľstvách** (ABC) | **0 / 0** |
| **7. Kapitoly v odborných monografiách, vysokoškolských učebniciach   a učebných textoch vydaných v domácich vydavateľstvách** (BBB, ACD) | **0 / 0** |
| **8. Kapitoly v odborných monografiách, vysokoškolských učebniciach   a učebných textoch vydaných v zahraničných vydavateľstvách**   (BBA, ACC) | **0 / 0** |
| **9. Vedecké práce registrované v Current Contents Connect**   (ADCA, ADCB, ADDA, ADDB) | **47 / 2** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **28 / 4** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **2 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **1 / 1** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **3 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **1 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** |
| **18. Ostatné vydané periodiká** | **0** |
| **19. Zostavovateľské práce knižného charakteru**   (FAI) | **0 / 0** |
| **20. Preklady vedeckých a odborných textov**   (EAJ) | **0 / 0** |
| **21. Heslá v odborných terminologických slovníkoch a encyklopédiách**   (BDA, BDB) | **0 / 0** |
| **22. Recenzie v časopisoch a zborníkoch**   (EDI) | **0 / 0** |

*Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii*

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Kvartil vedeckého časopisu** | **Q1** | **Q2** | **Q3** | **Q4** | **Spolu** |
| **Podľa IF z r. 2023 (zdroj JCR)**   *Počet článkov / doplnky* | 27 / 2 | 22 / 0 | 8 / 2 | 3 / 0 | 60 / 4 |
| **Podľa SJR z r. 2023 (zdroj Scimago)**   *Počet článkov / doplnky* | 29 / 0 | 25 / 2 | 8 / 2 | 13 / 2 | 75 / 6 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2023/ doplnky z r. 2022** |
| **Citácie vo WOS (1.1, 2.1)** | 949 / 96 |
| **Citácie v SCOPUS (1.2, 2.2)** | 195 / 21 |
| **Citácie v iných citačných indexoch a databázach (9, 10,   3.2, 4.2)** | 0 / 0 |
| **Citácie v publikáciách neregistrovaných v citačných   indexoch (3, 4, 3.1, 4.1)** | 31 / 12 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 |

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 52 |
| **Prednášky a vývesky na národných vedeckých podujatiach** | 21 |

**Účasť a vedenie seminárov**

**Interný seminár o výsledkoch detašovaného pracoviska MÚ SAV v Košiciach**

**stránka:** [**https://im.saske.sk/sk/seminar.html**](https://im.saske.sk/sk/seminar.html)

**Vedúci:** J. Pócs

**Referáty:** P. Eliaš, J. Haluška, E. Halušková, M. Hospodár (2x), I. Jadlovská, G. Jirásková (2x), J. Pócs, , M. Repický, F. Silváši (hosť), I. Vlček (hosť)

**Účasť:** P. Mlynárčik, V. Olejár

**Set-Valued Analysis**

**Vedúci:** Ľ. Holá

**Referáty:** Ľ. Holá, B. Novotný (2x)

**Poznámka:** 5 konaní, 6 účastníkov.

**Seminár o automatoch na MÚ SAV v Košiciach**

**Vedúci:** G. Jirásková

**Referáty:** M. Hospodár (5x), G. Jirásková (5x), V. Olejár (5x)

**Účasť:** P. Mlynárčik

**Poznámka:** Konal sa prezenčne i online formou.

**Seminár z topológie a teórie množín na PF UPJŠ**

**Vedúci:** J. Šupina (PF UPJŠ)

**Referáty:** P. Eliaš (3x) , M. Repický (2x)

**Poznámka:** 4-6 účastníkov, 15 konaní

**Seminár Fuzzy a neurčitosť na PF UPJŠ**

**Vedúci:** Ľ. Antoni (PF UPJŠ)

**Referáty:** P. Eliaš

**Seminár z diferenciálnej a algebraickej topológie na FMFI UK**

**Vedúci:** T. Macko

**Referáty:** Macko (4x)

**Seminár z usporiadaných algebraických štruktúr na PF UPJŠ**

**Vedúci:** M. Ploščica (PF UPJŠ)

**Referáty:** E. Halušková, J. Pócs (4x), V. Olejár

**Seminár z kvalitatívnej teórie diferenciálnych rovníc,**

**spoločný seminár MÚ SAV Košice a KMTI FEI TU**

**Vedúci:** J. Džurina (KMTI FEI TUKE)

**Referáty:** I. Jadlovská (2x)

**Panglobal Algebra and Logic Seminar (Univ. Colorado, USA)**

**Stránka:** [**http://math.colorado.edu/algebralogic/**](http://math.colorado.edu/algebralogic/)

**Vedúci:** K. A. Kearnes (Univ. Colorado, USA)

**Účasť:** E. Halušková

**RCQI seminár**

**Vedúci:** M. Sedlák (FÚ SAV)

**Účasť:** A. Jenčová

**Seminár z kryptológie na FEI STU**

**Vedúci:** O. Grošek

**Účasť:** K. Nemoga, P. Sýs

**Categorical Quantum Mechanics**

**Vedúci:** G. Jenča (SvF STU)

**Referáty:** A. Jenčová

**Poznámka:** 10 konaní, 5 účastníkov.

**Drahlin's Seminar on Functional Differential Equations** (online)

**Vedúci:** A. Domoshnitsky (Ariel Univ., Israel)

**Referáty:** N. Dilna

**Poznámky:** 50 konaní, 10 účastníkov

**Seminář z univerzální algebry a uspořádaných množin na PF UP, Olomouc, ČR**

**Vedúci:** I. Chajda (PF UP, Olomouc, ČR)

**Referáty:** J. Pócs

**Poznámky:** 20 konaní, 10 účastníkov

**2.6. Vyžiadané prednášky**

*Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)*

**2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach**

1. **FEČKAN, M.**: *Slowly varying discontinuous differential equations*, International Conference on Mathematics and its Applications in Science & Technology (ICMAST-2024), Central University of Punjab, Bathinda, India and Pondicherry University, Pondicherry, India, 30. 8. –31. 8. 2024 (keynote speaker)

2. HIAI, F.—**JENČOVÁ, A.**: *On alpha-z-Renyi divergences in von Neumann algebras*, Towards Infinite Dimension and Beyond in Quantum Information, BIRS workshop, Granada, 5. 5.–10. 5. 2024

3. HIAI, F.—**JENČOVÁ, A.**: *On alpha-z-Renyi divergences in von Neumann algebras*, Focused Workshop on Quantum Rényi Divergences, Erdos Center, Budapest, 22. 7.–27. 7. 2024

4. **HOLÁ, Ľ.**—BALCERZAK, M.—HOLÝ, D.: *Properties of equi-Baire 1 and equi-Lebesgue families of functions*, Inspirations in Real Analysis, Bedlewo, Poľsko, 14. 4.–19. 4. 2024.

**2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach**

**2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách**

1. **MAČUTEK, J.**: *The Menzerath-Altmann law*, Oslo Metropolitan University, Oslo, Nórsko, 17. 9. 2024

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

1. **AGU, F. I.**—**MAČUTEK, J.**: *Some extensions of the Schroter distribution family* (poster), PROBASTAT 2024, Smolenice, 20. 5.–24. 5. 2024

2. **AGU, F. I.**: *The truncated Schröter recursive algorithm for computation of aggregate claim amounts*, 1st Annual Conference & 1st Pre-Conference Workshop, Abuja, Nigéria, 11. 11.–15. 11. 2024

3. **BEČKA, M.**—**OKŠA, G.**: *Preconditioning of the One-Sided Block-Jacobi SVD Algorithm by Polar Decomposition*, 15th Int. Conf. on Parallel Processing and Applied Mathematics, Ostrava, ČR, 8. 9.–11. 9. 2024

4. BENEŠ, V.—SVÍTEK, M.—**MICHALÍKOVÁ, A.**—MELICHERČÍK, M.: *Investigating the impact of meteorological and traffic flow conditions on emissions*, Informatics 2024. 2024 IEEE 17th International Scientific Conference on Informatics. Poprad, Slovakia, 13. 11.–15. 11. 2024

5. **ČAPKA, F.**: *On argmin multifunction*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024

6. **ČUNDERLÍKOVÁ, K.**: *A note about almost uniform convergence on D-poset of intuitionistic fuzzy sets*, ICIFS'2024, Burgas, Bulharsko, 5. 7.–6. 7. 2024

7. **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and almost uniform convergence* (online), IWIFSGN'2024, Varšava, Poľsko, 18. 10. 2024

8. **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and two theorems from extreme value theory*, Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 13. 12. 2024

9. **DILNA, N.**: *D-stability of the model of the Stieltjes string*, The Equadiff conference 2024, Karlstad, Sweden, 10. 6.–14. 6. 2024

10. **DILNA, N.**—**LANGEROVÁ, M.**: *Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Functional Integro-Differential Equation*, ICFDA 2024 Conference on Fractional Differentiation and its Applications, Bordeaux, France, 9.7.–12.7.2024

11. **ELIAŠ, P.**: *On uniformly dense sets of functions*, The 38th International Summer Conference on Real Functions Theory, Stará Lesná, Slovensko, 15. 9.–20. 9. 2024

12. FERNÁNDEZ-PERALTA, R.—MASSANET, S.—**MESIAROVÁ-ZEMÁNKOVÁ, A.**—MIR, A.: *On the T-powers of 0 in the invariance property on fuzzy implication functions*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

13. HALAŠ, R.—**PÓCS, J.**: *Sugeno Integral: compatibility and its relation to distributivity*, The Seventeenth International Conference on Fuzzy Set Theory and Applications FSTA 2024, Liptovský Ján, 29. 1.–2. 2. 2024

14. HALAŠ, R.—**PÓCS, J.**: *Zerodivisor graphs on infinite posets*, Summer School on General Algebra and Ordered Sets 2024, Hotel Soláň, Karolinka, Česká Republika, 8. 9.–13. 9. 2024

15. **HALUŠKA, J.**: *Sound linear variety of normed principal mensure*, Acoustics 2024 High Tatras, Štrbské Pleso, 12. 6.–16. 6. 2024

16. **HALUŠKOVÁ, E.**: *On retract varieties of algebras*, AAA105 – Workshop on general algebra, Praha, 30. 5.–2. 6. 2024

17. **HALUŠKOVÁ, E.**: *On pre-periods of endomorphisms of finite modular lattices*, SSAOS 2024, Hotel Soláň, Karolinka, Česko, 8. 9.-13. 9. 2024

18. **HOSPODÁR, M.**—**OLEJÁR, V.**—ŠEBEJ, J.: *Decision Problems for Subregular Classes*, CIAA '24, Akita, Japonsko, 3. 9.–6. 9. 2024

19. **HYČKO, M.**: *Counting fuzzy subgroups in U\_6n*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

20. CHARVÁTOVÁ-CAMPBELL, A.—ŠLESINGER, R.—WITKOVSKÝ, V.—**WIMMER, G.**—BURŠÍKOVÁ, V.: *Applications of Iterated Linearization for Non-Linear Errors-in-Variable Regression to Metrological Data*, XXIV IMEKO World Congress “Think Metrology”, Hamburg, Germany, 26. 8.–29. 8. 2024

21. CHEN, X.—KUBÁT, M.—**MAČUTEK, J.**: *Directions of Dependency Structures in the Czech National Corpus SYN2020: Syntactic Indices for Text Classification*, The 17th International Conference on Statistical Analysis of Textual Data (JADT 2024), Bruxelles, Belgicko, 25. 6.–27. 6. 2024

22. JIRÁSEK, J.—**JIRÁSKOVÁ, G.**—SHALLIT, J.: *State complexity of the minimal star basis*, CIAA '24, Akita, Japonsko, 3. 9.–6. 9. 2024

23. **HOLÁ, Ľ.**—HOLÝ, D.: *Quasicontinuity and the topology of uniform convergence on compacta*, XXXVIII International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024

24. **HOLÁ, Ľ.**—HOLÝ, D.: *Properties of equi-Baire 1 and equi-Lebesgue families of functions*, ATA 2024, Vrnjacka Banja, Serbia, 29. 6.–3. 7. 2024

25. KALAFUT, J.—**MESIAROVÁ-ZEMÁNKOVÁ, A.**: *Clifford ordinal sum yeilding a pseudo-uninorm with continuous underlying function*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

26. **LANGEROVÁ, M.**: *On solutions of beam equation with impulses*, New Trends in the Applications of Differential Equations in Sciences, Varna, Bulharsko, 7. 7.–10. 7. 2024

27. **MAČUTEK, J.**—ČECH, R.—NOGOLOVÁ, M.—ROVENCHAK, A.: *What does the Menzerath-Altmann law really say?*, International Workshop on Corpus and Computational Linguistics, Univ. Ostrava, Ostrava, ČR, 28 5. 2024

28. MELICHERČÍK, M.—**MICHALÍKOVÁ, A.**—SILÁDI, V.: *Level of Service classifications within the Smart City concept using Artificial Intelligence tools*, Informatics 2024. 2024 IEEE 17th International Scientific Conference on Informatics. Poprad, Slovakia, 13. 11.–15. 11. 2024

29. **MESIAROVÁ-ZEMÁNKOVÁ, A.**— MESIAR, R.—SU, Y.—WANG Z.: *How to help Cinderella sort the values of idempotent uninorms on bounded lattices* (online), The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

30. **MICHALÍKOVÁ, A.**: *Using Takagi-Sugeno Fuzzy Inference System in Explanation of Data Approximation*, 22nd International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets. Warsaw, Poland, 18. 10. 2024

31. **MICHALÍKOVÁ, A.**—GÁPEROVÁ, S.—GÁPER, J.—DUDÁŠ, A.—BRUCHÁČOVÁ, M.: *Digitalization of Identification Keys for Wood Fungi in Education of University Mycology*, ICETA 2024 : 22th IEEE international conference on emerging eLearning technologies and applications, Starý Smokovec, 24. 10.–25. 10. 2024

32. **NEDELA, R.**: *Coherent partitions of cubic graphs*, The 59th Czech-Slovak Conference on Graph Theory 2024 (CSGT24), Trojanovice, ČR, 3. 6.–7. 6. 2024

33. **NEDELA, R.**: *Berge and 7/5-conjectures hold true for certain families of snarks*, Workshop HOMONOLO 2024, Nová Louka, ČR, 2. 12.–6. 12. 2024

34. **NEMOGA, K.**: *Post Quantum World , NATO Scientific Projects*, Workshop NATO “Secure Communication via Classical and Quantum Technologies”, NATO Project G5985, Madrid, Španielsko, 6. 9. 2024

35. NOGOLOVÁ, M.—**MAČUTEK, J.**—KUBÁT, J.: *What can be heard in the Czech Parliament*, The 17th International Conference on Statistical Analysis of Textual Data (JADT 2024), Bruxelles, Belgicko, 25. 6.–27. 6. 2024

36. **NOVOTNÝ, B.**—**HOLÁ, Ľ.**: *Baire-like properties of the space of minimal usco maps*, Inspirations in Real Analysis II, Bedlewo, Poľsko, 14. 4.–19. 4. 2024

37. **NOVOTNÝ, B.**—**HOLÁ, Ľ.**: *Baire-like properties of the space of minimal usco maps*, Analysis, Topology and Applications 2024, Vrnjačka Banja, Srbsko, 29. 6.–3. 7. 2024

38. **NOVOTNÝ, B.**: *Spaces of minimal usco and minimal cusco maps as Fréchet topological vector spaces*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024

39. **NOVOTNÝ, B.**—BARDYLA, S.—ŠUPINA, J.: *Local and global properties of spaces of minimal usco maps*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024

40. **PAPČO, M.**: *On aggregation of multi-valued data*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

41. **PLÁVALOVÁ, E.**: *Classifications for exoplanet and exoplanetary systems - could it be developed?* (poster), Rocky Worlds III, Zürich, Switzerland, 8. 1.–12. 1. 2024

42. **PLÁVALOVÁ, E.**: *Classifications for Exoplanet and Exoplanetary Systems – Could It Be Developed?*, The Planet Characterization in the Solar System and the Galaxy, Lunar and Planetary Institute (LPI), Houston, Texas, USA, 21. 2.–22. 2. 2024

43. **PLÁVALOVÁ, E.**: *Classifications for exoplanet and exoplanetary systems - could they be developed?* (poster), (Exo)Planet Diversity, Formation and Evolution, Max Planck Institute for Solar Research, Göttingen, Germany, 3. 12.–5. 12. 2024

44. **PÓCS, J.**: *On compact elements in lattices of aggregation functions*, Uncertainty modeling 2024, Košice, 24. 5.–25. 5. 2024

45. SAKER, S. H.—ALZABUT, J.—**SAIED, A. I.**—O'REAGAN, D.: *New characterizations of weights on dynamic inequalities involving a Hardy operator*, The 6th International Conference for Mathematics & Its Applications(ICMA24) – Artificial Intelligent and Computational Mathematics, Smart Village Campus, Egypt, 30.11.-1.12.2024

46. **WIMMER, G.**—PALENČÁR, J.—DOVICA, M.—PALENČÁR, R.—TÓTH, T.—WITKOVSKÝ, V.: *Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device*, XXIV IMEKO World Congress “Think Metrology” , Hamburg, Germany, 26. 8.–29. 8. 2024

47. **WIMMER, G.**—WITKOVSKÝ, V.: *Calibration model as a straight-line errors-in-variables model*, Probastat 2024, Smolenice, 20. 5.–24. 5. 2024

48. WITKOVSKÝ, V.—**WIMMER, G.**—CHARVÁTOVÁ-CAMPBELL, A.—KLAPETEK, P.—ŠLESINGER, R.: *Estimation of Function Parameters through Iterated Linearization for Nonlinear Errors-in-Variable Regression with Correlated Variables*, XXIV IMEKO World Congress “Think Metrology”, Hamburg, Germany, 26. 8.–29. 8. 2024

**2.6.5. Prednášky na domácich vedeckých podujatiach**

1. **AGU, F. I.**: *Exploring truncated distributions from the Schroter family ditributions* , ROBUST 2024, 23. letná škola JČ(S)MF, Bardejov, 8. 9.–13. 9. 2024

2. **ČUNDERLÍKOVÁ, K.**: *Introduction to the intuitionistic fuzzy sets* (online), Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

3. **DVUREČENSKIJ, A.**: *From the history of the Institute*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

4. **ELIAŠ, P.**: *Constructing free orthomodular poset over an orthoposet*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

5. **ELIAŠ, P.**: *Ideals related to permitted sets*, Workshop Topological Stuctures, Bratislava, 3. 6.–5. 6. 2024

6. **HALUŠKOVÁ, E.**: *Modular lattice – a short memory of the centenary of the birth of Ján Jakubík*, 22. Konferencia košickým matematikov, Herľany, 25. 4.–27. 4. 2024

7. **HOSPODÁR, M.**: *Zložitosť operácií v podtriedach regulárnych jazykov*, Súťaž mladých vedeckých pracovníkov do 35 rokov, Zasadačka SAV, Bratislava, 30. 4. 2024 (obsadené 3. miesto)

8. **JADLOVSKÁ, I.**: *Recent contributions to the theory of differential, difference and dynamic equations*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

9. **JENČOVÁ, A.**: *Rényi divergences in quantum information theory*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

10. **KARABÁŠ, J.**: *Classification of finite group actions on orientable surfaces*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

11. KOŠČ, I.—STOLÁRIK, P.—**KOŠČOVÁ, M.**—MOKRÁ, J.: *Moderné technické riešenia riadenia Schengenských hraníc*, Dvadsať rokov členstva slovenskej republiky v európskej únii - prínosy, výzvy, očakávania, Bratislava, 21. 5.–22. 5. 2024

12. **MACKO, T.**: *Surgery Theory*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

13. **MAČUTEK, J.**—**KOŠČOVÁ, M.**: *Partial-sums discrete probability distributions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

14. **MESIAROVÁ-ZEMÁNKOVÁ, A.**: *Structure of associative fusion functions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

15. **MRAČKA, I.**: *Mathematical modeling of the Covid-19 epidemic in the context of Slovakia*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

16. **NEMOGA, K.:** *65th Anniversary of the Institute of Mathematics of the Slovak Academy of Sciences*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

17. **NEMOGA, K.:** *Current tasks, evaluations of the Institute in 2026*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

18. **NOVOTNÝ, B.:** *Minimal USCO multifunctions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

19. **OKŠA, G.:** *Efficient Serial and Parallel Block-Jacobi EVD/SVD Algorithms*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

20. **PÓCS, J.:** *Zero-divisor graphs of posets*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024

21. **WIMMER, G.**—WITKOVSKÝ, V.—ZŮDA, J.: *Kalibrácia dvoch závaží s použitím referenčného závažia*, ROBUST 2024, 23. letná škola JČ(S)MF, Bardejov, 8. 9.–13. 9. 2024

**2.6.6. Prednášky na významných vedeckých inštitúciách**

1. **JIRÁSKOVÁ, G.**: *Deterministic blow-ups of nondeterministic finite automata*, Santa Clara University, Department of Mathematics and Computer Science, Colloquium, 25. 6. 2024

**2.6.7. Ostatné prednášky a vývesky**

1. **DVUREČENSKIJ, A.**: *Príhovor organizátora k otvoreniu konferencie PROBASTAT 2024*, PROBASTAT 2024, Smolenice, 20. 4. 2024

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2024**

**2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent**

**a) na Slovensku**

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2024**

**a) na Slovensku**

**b) v iných krajinách ako prioritná prihláška**

**c) PCT**

**d) EP**

**e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP**

**2.7.3. Úžitkové vzory na Slovensku**

**a) prihlásené v roku 2024**

**b) udelené v roku 2024**

**2.7.4. Realizované vynálezy**

**a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)**

**b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)**

*Finančný prínos pre organizáciu SAV v roku 2024 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.*   
   
**2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)**

Tabuľka 2i Experti hodnotiaci národné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Zemánková Andrea | VEGA | 1 |

**2.9. Účasť na spracovaní hesiel do encyklopédie Beliana**

Počet autorov hesiel: 0

**2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch**

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Meno pracovníka** | **Ved. monografie** | | **Príspevky v časopisoch** | | | **Zborníky** | |
| **Domáce** | **Zahra-  ničné** | **WoS, SCOPUS** | **Iné databázy** | **Ostatné** | **Domáce** | **Zahra-  ničné** |
| Bečka Martin | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Čunderlíková Katarína | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Dilna Natália | 0 | 0 | 3 | 0 | 0 | 0 | 2 |
| Fečkan Michal | 0 | 1 | 10 | 0 | 0 | 0 | 0 |
| Fernández-Peralta Raquel | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Halušková Emília | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Holá Ľubica | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Hospodár Michal | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hyčko Marek | 0 | 0 | 3 | 11 | 0 | 0 | 0 |
| Jadlovská Irena | 0 | 0 | 16 | 0 | 0 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 12 | 0 | 0 | 0 | 0 |
| Jirásková Galina | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Kochol Martin | 0 | 0 | 4 | 13 | 0 | 0 | 0 |
| Langerová Martina | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Macko Tibor | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Mačutek Ján | 0 | 0 | 17 | 0 | 0 | 0 | 10 |
| Novotný Branislav | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Okša Gabriel | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Pócs Jozef | 0 | 0 | 3 | 4 | 0 | 0 | 3 |
| Pospíšil Michal | 0 | 0 | 7 | 1 | 0 | 0 | 0 |
| Wimmer Gejza | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Zemánková Andrea | 0 | 0 | 25 | 0 | 0 | 0 | 1 |
| **Spolu** | **0** | **1** | **136** | **29** | **0** | **0** | **18** |

**2.11. Iné informácie k vedecko-výskumnej činnosti.**

Prehľad dosiahnutých výsledkov

· Skúmali sme súvis medzi skoro rovnomernou konvergenciou intuitionistických fuzzy pozorovateľných a náhodných premenných. Takisto sme sformulovali skoro rovnomernú konvergenciu pre MV-algebru a D-poset intuitionistických fuzzy množín. Ďalej sme sformulovali variácie dvoch viet z teórie extrémnych hodnôt, t.j. Fisherovej-Tippetovej-Gnedenkovej vety a Pickandsovej-Balkemaovej-de Haanovej vety pre intuitionistickú fuzzy pravdepodobnosť.

· Skúmali sa podmienky pre Ulam-Hyersovu stabilitu integro-diferenciálnych rovníc a aj rovníc s odchýlkami argumentov. Tiež sa študovali podmienky riešiteľnosti uvedených rovníc.

· Skúmajú sa rozdiely v reakčných silách medzi začínajúcimi bežcami a rekreačnými bežcami. Výsledky ukázali, že rekreační bežci vykazovali výrazne väčšiu maximálnu vertikálnu nárazovú silu a maximálnu strednú silu ako skupina začiatočníkov. V porovnaní s tým bola ich maximálna hnacia sila menšia ako u skupiny nováčikov.

· Opotrebovanie je tretím najdôležitejším faktorom, ktorý obmedzuje životnosť totálnych náhrad kolena (TNK). Zistilo sa, že rýchlosť opotrebovania sa zvyšuje lineárne ako funkcia veľkosti TNK, zatiaľ čo vplyv geometrických parametrov súvisiacich s TNK možno opísať lineárnymi alebo kvadratickými funkciami.

· Cieľom výskumu je využitie projektov Scratch na organizáciu vzdelávacích aktivít študentov, ako aj na ich tvorivú sebarealizáciu. Vizuálny programovací jazyk na vysokej úrovni založený na blokoch by mohol byť pomocnou technológiou pre učiteľa a nezávislým rozvojovým nástrojom kreativity študentov.

· Študovali sme vzťah medzi MV-algebrami, Bézoutovymi doménami a Abelovskými l-grupami. Vyšetril sme Booloveské prvky a ideály vzhľadom na podmnožiny Bézotových domén.

· Ukázali sme, že každá MV-algebra združená Noetherovskou Bézotovou doménou je konečná. Charakterizovali sme perfektné MV-algebry, (H,1)-perfektné MV-algebry, hyperachimedovské MV-algebry a úplné MV-algebry z pohľadu okruhov.

· Popísali sme podmienky, za ktorých štruktúra zväzu všetkých spojitých funkcií na topologickom priestore jednoznačne určuje štruktúru podkladového topologického priestoru.

· Študovali sme rôzne klasické matematické štruktúry modifikované podľa hudobnej akustiky, napr. také ako sú pojmy: hudobná výška vektora (tónu), kvintový a kvartový kruh tónov a operácie nad nimi, atď. Napr. môžeme skúmať modifikovaný pojem okruhu Fourierových dekompozícií tónov.

· Ukázali sme, že za predpokladu hypotézy kontinua, topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X\* \ X,d\*) je separabilný, kde (X\*,d\*) je zúplnenie priestoru (X,d).

· Študujeme výpočtovú zložitosť rozhodovania, či daný deterministický alebo nedeterministický konečný automat rozpoznáva jazyk v danej podtriede regulárnych jazykov. NL-úplnosť tohto problému dokazujeme na oboch modeloch automatov pre triedy bezčiarkových kódov, pevných kódov a singletonových jazykov.

· Boli generované modely idempotentných binárnych funkcií, ktoré spĺňajú určité podmienky. Podarilo sa nájsť modely až do veľkosti n = 8. Zložitosť brute-force metódy je O(n3 n^(n2-n)), ktorú sa podarilo významne redukovať.

· Našli sme charakterizáciu typov kvantových zobrazení vyššieho rádu (HOM) pomocou kombinácie kategoriálneho prístupu s teóriou typov HOM a ich charakterizáciou pomocou projekcií. Zaviedli sme kategóriu afinných priestorov a dokázali sme, že je \*-autonómna, čo nám umožnilo stotožniť typy kvantových HOM s jej určitými objektami. K týmto objektom sa dajú priradiť špeciálne binárne funkcie, ktoré po použití Moebiovej transformácie vieme reprezentovať pomocou posetu s označenými vrcholmi. Tento poset je reťazec práve vtedy, keď daný HOM typ je kauzálne usporiadaný (komb). Vo všeobecnom prípade je daný typ zložený kombinovaním zreťazení niekoľkých základných reťazcov rôznych poradiach, čo sa dá vyčítať zo štruktúry posetu.

· Študovali sme stavovú zložitosť minimálnej bázy uzáveru. Nech L je regulárny jazyk, ktorý neobsahuje ε. Určíme stavovú zložitosť dvoch operácií L → LL+ a L → L - LL+. To druhé je zaujímavé, pretože L - LL+ je „minimálna báza uzáveru“, množina všetkých reťazcov L, ktoré nemožno napísať ako zreťazenie kratších reťazcov L, koncept, ktorý prvýkrát študoval John Brzozowski v roku 1966.

· Zavádzame zjednocujúci prístup k invariantom na konečných matroidoch zratúvajúcich zobrazenia do konečných množín. Dokázali sme že ak mohutnosti zobrazení na ohraničené množiny spĺňajú podmienky kontrakcie-vynechania, potom existujú vzťahy medzi nimi ktoré je možné vyjadriť pomocou lineárnej algebry. Týmto spôsobom študujeme regulárne chain grupy, nikde-nulové toky a napätia v grafoch a totálne cyklických a acyklické orientácie orientovateľných matroidov a grafov.

· Venovali sme sa štruktúrnej množine k-sférických bandlov nad l-sférami v zmysle teórie chirurgií. Ak k+1=l=4q, tak je známe, že triedy izomorfizmov sú úplne popísané dvoma celými číslami m a n a príslušný bandl značíme Mm,n. Bol publikovaný článok, v ktorom sme pre k=7 a l=8 sme zistili, že v ak n je nesúdeliteľné s 28, tak všetky prvky v štruktúrnej množine STOP(Mm,n) majú reprezentant hladkú varietu.

· Ukázali sme, že takzvanú algebraickú pi-pi vetu možno rozšíriť zo simpliciálnych komplexov na diskové komplexy.

· Študovalo sa zobrazenie z hladkej do topologickej štruktúrnej množiny v zmysle teórie chirurgií pre komplexné projektívne priestory. Podarilo sa nám rozšíriť niektoré výsledky Brumfiela a Littlea, ktoré boli v dimenziách do 12 po dimenziu 28. Taktiež sme sa venovali verzii, kde máme súčin komplexného projektívneho priestoru s diskom, ktorá pred tým nebola študovaná a podarilo sa nám taktiež dosiahnuť výsledky v dimenziách po 28.

· Hierarchická analýza zhlukov bola aplikovaná na relatívne frekvencie syntaktických funkcií v českých textoch. Výsledky sú použité na automatické klasifikovanie textov podľa žánrov.

· Kvantitatívna analýza prejavov poslancov v parlamente ČR ukazuje, že rozhodujúci vplyv na textové indexy má pôsobenie politickej strany vo vládnej koalícii, resp. k opozícii.

· Bol predstavený matematický model pre vývoj slovosledu v češtine od 14. storočia po dnešok.

· Skúmali sme vlastnosti priestorov minimálnych usco a cusco zobrazení. Našli sa vzťahy medzi lokálnymi a globálnymi vlastnosťami; napr. kompaktnosť a lokálna kompaktnosť. Tiež sme sa zaoberali úplnostnými vlastnosťami ako Baireovosť a Čechovská úplnosť.

· Navrhli sme nový druh predpodmienenia pre jednostranný blokový Jacobiho algoritmus na výpočet SVD všeobecnej matice. Je založený na EVD Hermitovského factora H y polárnej dekompozície pôvodnej matice A, ktorá sa počíta pomocou (parciálnych) Halleyových iterácií. Tento prístup eliminuje výpočet Gramovej matice ATA, ktorý je numericky nespoľahlivý pre veľmi zle podmienené matice A. Iterovaná matica v Hallezových iteráciach má špeciálnu štruktúru, pre ktorú sme navrhli a porovnali 3 varianty pre výpočet jej QR faktorizácie.

· Bola urobená analýza chýb jednej metódy ortogonalizácie maticového blokového stĺpca v konečnej aritmetike, čo je základný krok v jednostrannom blokovom Jacobiho algoritme na výpočet SVD všeobecnej matice. Ortogonalizácia je založená na výpočte Gramovej matice a jej Choleskyho dekompozície, ktorá poskytne horný trojuholníkový faktor R. Následne je na faktor R aplikovaný jednostranný skalárny Jacobiho algoritmus na výpočet jeho SVD pomocou Givensových rotácií, ktoré sa akumulujú a nakoniec prenásobia maticový stĺpcový blok. Hlavným výsledkom je horná hranice pre odhad straty ortogonality vypočítaných ľavých singulárnych vektorov pre daný maticový stĺpcový blok.

· Je známe, že tzv. Beckova domnienka, t. j., že za podmienky konečnosti platí rovnosť klikového a chromatického čísla grafu nulových deliteľov, je pravdivá pre čiastočne usporiadané množiny. V článku je uvedený jednoduchý priamy dôkaz tohto faktu. Taktiež sa rieši prípad, keď predpoklad konečnosti klikového čísla je vynechaný. Je ukázané, že táto domnienka vo všeobecnosti pre nekonečné čiastočne usporiadané množiny neplatí, pričom sú prezentované príklady takýchto čiastočne usporiadaných množín.

· Popísal sa súčasný spôsob overovania, či trojsúradnicový merací stroj (CMM) spĺňa dovolené chyby merania, ktoré sú deklarované výrobcom a navrhuje sa nový spôsob overovania, či (CMM) spĺňa tieto dovolené chyby merania. Nový, nami navrhovaný postup predpokladá, že máme k dispozícii hodnoty nameraných veličín dĺžok viacerých meraných objektov určených meracím zariadením (tzv. actual values) spolu s ich neistotami (na vodorovnej osi), ako aj príslušné nominálne hodnoty tých istých objektov (etalónov) s ich neistotami (na zvislej osi).

· Riešili sme situáciu keď máme k dispozícii sady n-tíc meraní s najlepšie odhadnutými hodnotami charakterizujúcimi merané objekty spolu s príslušnými neistotami. Tieto údaje predstavujú priame merania, ktoré sa považujú za realizácie náhodných premenných charakterizovaných spoločným rozdelením. Ich distribúcia môže byť úplne známa, čiastočne známa (zahŕňajúca určité neznáme parametre) alebo neznáma s danou kovariančnou maticou.

· Zaoberali sme sa jednou z najbežnejších metód fitovania, a síce fitovaním určitej funkcie získanými údajmi aplikáciou nelineárnych najmenších štvorcov. Táto numerická metóda bola implementovaná pravdepodobne vo všetkých softvéroch na spracovanie údajov a je rýchla a jednoduchá na použitie. Žiaľ, má svoje obmedzenia – funguje najmä pre veľmi jednoduché modely neistôt prítomných v systéme.

· Uvažovali sme štatistický lineárny kalibračný model, ktorý, je vlastne nelineárny regresný model priamych meraní s chybami v premenných (EIV – model). Odvodená kovariančná matica odhadov parametrov modelu poskytuje len aproximácie neistôt. Potrebujeme vyriešiť, či je aj linearizovaný nelineárny regresný model pre namerané údaje „vhodným“ kalibračným modelom. Navrhli sme štatistický test, ktorý nám pomáha odpovedať na vyššie uvedenú otázku.

· Ukázali sme, že Data Fitting (fitovanie údajov) je nepostrádateľným nástrojom modernej metrológie. Avšak najviac populárna metóda najmenších štvorcov LSM dosahuje svoj limit v nanometrii. Správny spôsob fitovania údajov F-D krivky (force-distance curve) je ortogonálna regresia so správnym spracovaním kovariančnej matice. Aplikovali sme nový algoritmus OEFPIL a výsledky porovnávame s inými metódami.

· Uvažovali sme model lineárnej porovnávacej kalibrácie, ktorý je z hľadiska matematickej štatistiky nelineárny regresný model priamych meraní. Merané vektory sú normálne rozdelené náhodné vektory, μ a ν sú vektory ich stredných hodnôt a sú spojené rovnicou ν = a1 + bμ. Kovariančná matica modelu je známa pozitívne definitná matica. Rovnicu ν = a1 + bμ rozvinieme pomocou Taylorovho radu okolo hodnôt μ0, a0, b0 a zanedbáme členy druhého a vyšších rádov. Získavame lineárno-kvadratický regresný model priamych meraní s novými parametrami δμ, δa, δb. Tento model označujeme ako slabo nelineárny model. Naším cieľom bolo určiť podmienky, za ktorých možno spracovať slabo nelineárny regresný kalibračný model ako konvenčný lineárny regresný model.

· Riešili sme kalibračnú úloha sformulovaná na pracovisku Český metrologický institut, Oblastní inspektorát Brno, Oddělení primární etalonáže hmotnosti. Majme dve závažia M1 a M2 a referenčné závažie MR. Nominálne hmotnosti každého závažia sú 1kg. Porovnaním každých dvoch závaží na komparátore v troch prostrediach so známymi hustotami ρ1, ρ2, ρ3 určte hmotnosti dM1 (rozdiel medzi nominálnou hodnotou a meranou hodnotou M1), V1 (objem meraného závažia M1 pri teplote 20°C), dM2 (rozdiel medzi nominálnou hodnotou a meranou hodnotou M2), V2 (objem meraného závažia M2 pri teplote 20°C).

· Študovali konštrukčné metódy pre asociatívne funkcie, so špeciálnym zameraním na konštrukčné metódy založené na skladaní čiastočných funkcií, ktoré rozširujú ordinálny a z-ordinálny súčet. Zatiaľ čo ordinálny súčet a z-ordinálny súčet možno považovať za komutatívne konštrukčné metódy, keďže skladajú komutatívne funkcie z komutatívnych čiastočných funkcií, my sme zaviedli a študovali nekomutatívny ordinálny súčet, ktorý skladá nekomutatívne funkcie z komutatívnych čiastočných funkcií. Tiež sme ukázali príklad rozkladu semi-t-operátora a pseudo-n-uninormy pomocou nekomutatívneho ordinálneho súčtu, pričom tieto funkcie sa nedajú rozložiť pomocou komutatívnych metód ako sú ordinálny a z-ordinálny súčet.

**3. Medzinárodná vedecká spolupráca**

**3.1. Medzinárodné vedecké podujatia**

**3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
PROBASTAT 2024, KC SAV, Smolenice, 61 účastníkov, 20.05.-24.05.2024

PROBASTAT 2024 – ôsma medzinárodná konferencia o matematickej štatistike sa uskutočnila v Kongresovom centre SAV v Smoleniciach v dňoch 20. až 24. mája 2024. Konferencia bola pokračovaním série úspešných domácich a medzinárodných konferencií s cieľom stimulovať výmenu myšlienok a výskumu vo všetkých oblastiach matematickej štatistiky. PROBASTAT 2024 organizuje Ústav merania SAV, v. v. i. v spolupráci s Fakultou matematiky, fyziky a informatiky UK a Matematickým ústavom SAV.

38th International Summer Conference on Real Functions Theory, Stará Lesná, 20 účastníkov,   
16.09.-20.09.2024  
ISCRFT 2024 – tradičná letná škola z teórie reálnych funkcií.

IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 20 účastníkov,   
13.12.-13.12.2024

Medzinárodný Workshop on Intuitionistic Fuzzy Sets bol založený v roku 2005 profesorom Beloslavom Riečanom za účelom prezentovania a výmeny výsledkov a medzinárodnej spolupráce vo výskume intuicionistických fuzzy množín a ich aplikácií medzi Slovenskou akadémiou vied, Bulharskou akadémiou vied a Univerzitou Mateja Bela. V súčasnosti sa workshopu zúčastňujú aj výskumní pracovníci z výskumných inštitúcií z iných krajín.

**3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2025 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
IWIFS 2025 - Workshop on Intuitionistic Fuzzy Sets 2025/IWIFS 2025 - Workshop on Intuitionistic Fuzzy Sets 2025, Banská Bystrica, 12.12.-12.12.2025, (Katarína Čunderlíková, 0902213864, cunderlikova.lendelova@gmail.com)

Medzinárodný Workshop on Intuitionistic Fuzzy Sets bol založený v roku 2005 profesorom Beloslavom Riečanom za účelom prezentovania a výmeny výsledkov a medzinárodnej spolupráce vo výskume intuicionistických fuzzy množín a ich aplikácií medzi Slovenskou akadémiou vied, Bulharskou akadémiou vied a Univerzitou Mateja Bela. V súčasnosti sa workshopu zúčastňujú aj výskumní pracovníci z výskumných inštitúcií z iných krajín.

**3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií**

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Meno pracovníka** | **Programový** | **Organizačný** | **Programový i organizačný** |
| Čunderlíková Katarína | 0 | 0 | 1 |
| Eliaš Peter | 0 | 1 | 0 |
| Holá Ľubica | 0 | 0 | 1 |
| Jenčová Anna | 1 | 0 | 0 |
| Jirásková Galina | 1 | 0 | 0 |
| Michalíková Alžbeta | 0 | 2 | 1 |
| Mlynárčik Peter | 1 | 0 | 0 |
| Novotný Branislav | 0 | 1 | 0 |
| Okša Gabriel | 1 | 0 | 0 |
| Olejár Viktor | 0 | 1 | 0 |
| Wimmer Gejza | 1 | 0 | 0 |
| Zemánková Andrea | 1 | 0 | 0 |
| **Spolu** | 6 | 5 | 3 |

**3.2. Členstvo a funkcie v medzinárodných orgánoch**

**3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR**

RNDr. Katarína Čunderlíková, PhD.

EUSFLAT - European Society for Fuzzy Logic and Technology (funkcia: člen)

IFSTART - Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics (funkcia: člen)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)

International Quantum Structure Association (funkcia: člen výboru)

Ing. Irena Jadlovská, PhD.

International Society of Difference Equations (funkcia: člen)

RNDr. Galina Jirásková, CSc.

IFIP - International Federation for Information Processing, WG 1.2 Desciptional Complexity (funkcia: člen)

doc. Mgr. Ján Mačutek, PhD.

IQLA (International Quantitative Linguistics Association) (funkcia: člen rady)

RNDr. Alžbeta Michalíková, PhD.

EUSFLAT - European Society for Fuzzy Logic and Technology (funkcia: člen)

IFSTART - Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics (funkcia: koordinátorka pracovnej skupiny za SR)

prof. RNDr. Roman Nedela, DrSc.

Európska matematická spoločnosť (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

ACM (Association for Computing Machinery) (funkcia: člen)

IACR International Association for Cryptology (funkcia: člen)

IEEE Institute of Electrical and Electronics Engineers (funkcia: člen)

SIAM Society for Industrial and Applied Mathematics (funkcia: člen)

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

Mgr. Andrea Zemánková, DrSc.

EUSFLAT - European Society for Fuzzy Logic and Technology (funkcia: člen)

**3.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)**

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Nemoga Karol | NATO Science for Peace and Security | 45 |

**3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci**

*Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.*

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.* **4. Aplikácia výsledkov výskumu v praxi**

**4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi**

Výsledok výskumu: Spolu s FEI STU sme sa zúčastňovali výskumu Problematiky ochrany informácií pre štátnu sféru SR. Výsledky boli aplikované pre potreby MO SR.

Kto využíva výsledok: MO SR

Rok využívania od: 2024

Rok využívania do: trvá

Projekt:

Rok vytvorenia výsledku: 2024

Autori výsledku: FEI STU, MÚ SAV, v.v.i.

**4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)**

Názov/účel kontraktového výskumu: Vývoj, počítačová implementácia a nasadenie v praxi algoritmov na odhaľovanie únikov plynu z potrubí

Zadávateľ výskumného kontraktu: ttc, s.r.o., Nitra

Začiatok spolupráce: 2004

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

**4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti**   
 **5. Doktorandské štúdium a pedagogická činnosť**

**5.1. Údaje o doktorandskom štúdiu**

Tabuľka 5a Počet doktorandov v roku 2024

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2024** | | | | **Počet doktorandov po doktorandskej skúške** | | **Počet ukončených doktorantúr v r. 2024** | | | | | |
| **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Denná zo zdrojov SAV** | 5 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| **Denná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 6 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| **Z toho zahraničných** | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Súhrn** | 7 | | 2 | | 4 | | 0 | | 1 | | 0 | |

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.   
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2024 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.   
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.*

**5.2. Zmena formy doktorandského štúdia**

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pôvodná forma** | **Denná z prostriedkov SAV** | **Denná z prostriedkov SAV** | **Denná z iných zdrojov** | **Denná z iných zdrojov** | **Externá** | **Externá** |
| **Nová forma** | **Denná z iných zdrojov** | **Externá** | **Denná z prostriedkov SAV** | **Externá** | **Denná z prostriedkov SAV** | **Denná z iných zdrojov** |
| **Počet** | 0 | 0 | 0 | 0 | 0 | 0 |

**5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou**

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Meno doktoranda** | **Forma DŠ** | **Mesiac, rok nástupu na DŠ** | **Mesiac, rok obhajoby** | **Číslo a názov študijného odboru** | **Meno a organizácia školiteľa** | **Fakulta udeľujúca vedeckú hodnosť** |

**5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia**

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou v nadštandardnej dĺžke štúdia

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Meno doktoranda** | **Forma DŠ** | **Mesiac, rok nástupu na DŠ** | **Mesiac, rok obhajoby** | **Číslo a názov študijného odboru** | **Meno a organizácia školiteľa** | **Fakulta udeľujúca vedeckú hodnosť** |

**5.5. Uplatnenie absolventov doktorandského štúdia**   
   
Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)** | **z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)** | **z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu** | **z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu** | **z toho koľkí boli nejaký čas nezamestnaní** |
| 0 | 0 | 0 | 0 | 0 |

*Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5*

*Zoznam interných a externých doktorandov je uvedený v prílohe A-1.* **5.6. Medzinárodné doktorandské štúdium**

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

|  |  |  |  |
| --- | --- | --- | --- |
| **Cotutelle** | **Co-direction** | **Iné** | **Zahraniční doktorandi  štátne občianstvo/počet** |
| 0 | 0 | 0 | EGY/1, NGA/1, PAK/1 |

*Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.   
Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.*

**5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ**

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

|  |  |  |  |
| --- | --- | --- | --- |
| **Názov študijného odboru (ŠO)** | **Číslo ŠO** | **Názov doktorandského študijného programu** | **Doktorandské štúdium uskutočňované na**   (univerzita/vysoká škola a fakulta) |
| Matematika | 1113 | Aplikovaná matematika | Fakulta matematiky, fyziky a informatiky UK |

*Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov* [*https://www.portalvs.sk/sk/studijne-odbory?from=menu1*](https://www.portalvs.sk/sk/studijne-odbory?from=menu1)*. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.*

Tabuľka 5h Účasť na pedagogickom procese

|  |  |  |
| --- | --- | --- |
| **Menný prehľad pracovníkov,   ktorí boli menovaní   do odborových   komisií pre doktorandské   štúdium** | **Menný prehľad pracovníkov,   ktorí pôsobili ako členovia   vedeckých rád univerzít,   správnych rád univerzít a fakúlt** | **Menný prehľad pracovníkov,   ktorí získali vyššiu vedeckú,   pedagogickú hodnosť   alebo vyšší kvalifikačný stupeň** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Michal Fečkan, DrSc. (Univerzita Komenského v Bratislave) | RNDr. Katarína Čunderlíková, PhD. (IIa) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | doc. RNDr. Ľubica Holá, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | RNDr. Alžbeta Michalíková, PhD. (IIa) |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | Mgr. Anna Jenčová, DrSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty) | Mgr. Anna Jenčová, DrSc. (Univerzita Palackého, Olomouc, Česká republika ) |  |
| prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika) | doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB) |  |
| doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) |  |  |
| Mgr. Anna Jenčová, DrSc. (aplikovaná matematika) |  |  |
| doc. Mgr. Ján Mačutek, PhD. (odbor v zahraničí) |  |  |
| RNDr. Alžbeta Michalíková, PhD. (informatika) |  |  |
| prof. RNDr. Roman Nedela, DrSc. (aplikovaná matematika) |  |  |
| prof. RNDr. Roman Nedela, DrSc. (informatika) |  |  |
| doc. RNDr. Karol Nemoga, CSc. (geometria a topológia) |  |  |
| doc. RNDr. Karol Nemoga, CSc. (aplikovaná informatika) |  |  |
| doc. RNDr. Miroslav Repický, CSc. (informatika) |  |  |
| doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |

**5.8. Údaje o pedagogickej činnosti**   
   
Tabuľka 5i Prednášky a cvičenia vedené v roku 2024

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 5 | 1 | 5 | 0 |
| **Celkový počet hodín v r. 2024** | 326 | 78 | 499 | 0 |

*Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.*

Tabuľka 5j Aktivity pracovníkov na VŠ

|  |  |  |
| --- | --- | --- |
| **1.** | **Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti   diplomových a bakalárskych prác** | 8 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 12 |
|
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 3 |
|
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 3 |
|
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 3 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 2 |
|
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc.   prác** | 1 |
|
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD.   prác** | 2 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 1 |
|

**5.9. Iné dôležité informácie k pedagogickej činnosti**

Ročný (od septembra 2023 do septembra 2024) štúdijný pobyt doktoranda V. Olejára na Departamento de Ciência de Computadores - Faculdade de Ciências da Universidade do Porto v Portugalsku cez program Erasmus+ (vedúci pracovníci: Nelma Moreira a Rogério Reis).

Andrea Zemánková pôsobila ako školiteľ špecialista pre interného doktoranda Mgr. J. Kalafuta na Stavebnej fakulte STU v Bratislave v odbore aplikovaná matematika.

Od júna 2024 sa Michal Hospodár stáva novým školiteľom V. Olejára (predtým bola školiteľkou Galina Jirásková).

**6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu**

*Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.*

**6.1. Spoločné pracoviská organizácie**

**6.1.1. Spolupráca s univerzitami/VŠ (fakultami)**

**Názov univerzity/vysokej školy a fakulty:** Drevárska fakulta TUZVO

**Oblasť spolupráce:** veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2019

**Zhodnotenie:** Spolupráca- Matematický ústav SAV (Bratislava, Košice)- Ústav materiálov SAV (Bratislava, Žiar nad Hronom)- Umenovedný ústav SAV (Bratislava)na VEGA grantoch týkajúcich sa drevených organov.

**Názov univerzity/vysokej školy a fakulty:** Fakulta elektrotechniky a informatiky STU

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2000

**Zhodnotenie:** spolupráca pre MO SR, NATO a NBÚ SR, spolupráca vo výskume a výchove mladých vedeckých pracovníkov, spoločný vedecký projekt APVV, výučba a príprava materiálov.

**Názov univerzity/vysokej školy a fakulty:** Fakulta matematiky, fyziky a informatiky UK

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 1990

**Zhodnotenie:** spoločný vedecký grant APVV, výchova mladých vedeckých pracovníkov, členstvo v štátnicových a odborových komisiách.

**Názov univerzity/vysokej školy a fakulty:** Fakulta prírodných vied UMB

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2001

**Zhodnotenie:** členstvo vo VR, výuka, výchova mladých vedeckých pracovníkov, spoločný projekt APVV, VEGA, ESF na podporu vzdelávania v SR, príprava spoločných publikácií, vedenie diplomových prác, vedenie ŠVOČ prác.

**Názov univerzity/vysokej školy a fakulty:** Fakulta prírodných vied UMB

**Oblasť spolupráce:** vedecko-výskumná činnosť, vzdelávanie

**Sídlo spoločného pracoviska (ak je vytvorené):** Ústavu vied o Zemi SAV (Ďumbierska 1, Banská Bystrica)

**Začiatok spolupráce:** 2019

**Zhodnotenie:** V roku 2019 sme zmluvne zriadili spoločné pracovisko 1) Fakulty prírodných vied UMB, Banská Bystrica, 2) Ústavu vied o Zemi SAV, 3) Matematického ústavu SAV, 4) Ústavu informatiky SAV a 5) Centra biológie rastlín a biodiverzity SAV, Botanický ústav SAV.

**Názov univerzity/vysokej školy a fakulty:** Pedagogická fakulta KU

**Oblasť spolupráce:** výuka

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2020

**Zhodnotenie:** Výučba na Fakulte manažmentu (Poprad).

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UPJŠ

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 1999

**Zhodnotenie:** spoločné vedecké granty, výučba, príprava spoločných publikácií, členstvo v komisiách, semináre, vedenie bakalárskych a diplomových prác, vypracovávanie oponentských posudkov pre diplomové a bakalárske práce, vedenie diplomovej práce.

**Názov univerzity/vysokej školy a fakulty:** Stavebná fakulta STU

**Oblasť spolupráce:** numerická analýza, algoritmy

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2011

**Zhodnotenie:** pedagogická činnosť

**Názov univerzity/vysokej školy a fakulty:** Strojnícka fakulta STU

**Oblasť spolupráce:** veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2020

**Zhodnotenie:** Spolupráca na riešení APVV projektu s Ústavom automatizácie, merania a aplikovanej informatiky.

**Názov univerzity/vysokej školy a fakulty:** Technická univerzita v Košiciach

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2002

**Zhodnotenie:** výučba, spolupráca vo vedeckých grantoch, seminár.

**Názov univerzity/vysokej školy a fakulty:** Trnavská univerzita v Trnave

**Oblasť spolupráce:** pedagogika, veda a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2002

**Zhodnotenie:** výučba, spolupráca vo vedeckých projektoch.

**Názov univerzity/vysokej školy a fakulty:** Trnavská univerzita v Trnave

**Oblasť spolupráce:** veda a výskum, projektová spolupráca, project InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF, príprava a práca na ďalšom projekte DigiMent

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2019

**Zhodnotenie:** Spolupráca- Matematický ústav SAV (Bratislava, Košice) , project InoCHF bol úspešne ukončený, ale )dalšie riešenie problematiky ešte pokračuje. Od 1. 4. 2024 prebiehali aj práce na podanom projekte Digiment, ktorý bol schválený neskôr.

**Názov univerzity/vysokej školy a fakulty:** Ústav matematiky a statistiky, Přírodovědecká fakulta, Masarykova univerzita, Brno, ČR

**Oblasť spolupráce:** pedagogika a výskum

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2002

**Zhodnotenie:** Prednášky a výchova študentov.

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

**6.1.2. Spoločné pracoviská s inými organizáciami SAV**

**Názov organizácie:** Ústav informatiky SAV, v. v. i.

**Oblasť spolupráce:** projekt APVV

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2022

**Zhodnotenie:** APVV 19-0220-Ontologická reprezentácia pre bezpečnosť informačných systémov

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

**6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ**

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

**6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV**

**Názov projektu:** Mobilné, dátové, odberové a analytické centrum pre riadenie v krízových situáciách

**Agentúra:**

**číslo projektu:** 257/2021

**Spolupracujúce inštitúcie:** Akadémia PZ v Bratislave (Katedra európskeho integrovaného riadenia hraníc)

**Koordinátor projektu:** Michaela Koščová

**Začiatok spolupráce:** 2021

**Zhodnotenie:** Navrhujú sa niektoré riešenia integrujúce hardvérové a softvérové prostriedky na zber a analýzu dát zo senzorických subsystémov. Zozbierané výstupy meraní sú podrobené lokálnej alebo vzdialenej expertnej analýze. Účelom tejto analýzy je vyhodnotiť stupeň bezpečnosti/rizika subjektu pre povolenie alebo odmietnutie vstupu. Očakáva sa výrazné zvýšenie ochrany pri vstupe na územie SR. Získané výsledky vykazujú vhodné predpoklady pre celkové zlepšenie bezpečnosti, optimalizácie a efektívnosti procesov riadenia schengenských hraníc.

**Názov projektu:** Problémy ochrany informácií pre štátnu sféru SR

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** MO SR, FEI STU

**Koordinátor projektu:**

**Začiatok spolupráce:** 2013

**Zhodnotenie:** Rozpracované boli metódy ochrany informácií. Finančný prínos pre organizáciu 0 EUR.

*Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci*   
**6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV**   
 **7. Vedecko-organizačné a popularizačné aktivity**

**7.1. Vedecko-popularizačná činnosť**

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ** | **Počet** | **Typ** | **Počet** | **Typ** | **Počet** |
| prednášky/besedy | 17 | tlač | 0 | TV | 1 |
| rozhlas | 0 | internet | 0 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 1 |  |  |  |  |

**7.2. Vedecko-organizačná činnosť**

Tabuľka 7b Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| PROBASTAT 2024 | medzinárodná | KC SAV, Smolenice | 20.5.-24.5.2024 | 61 |
| IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets | medzinárodná | Banská Bystrica | 13.12.-13.12.2024 | 20 |

**7.3. Účasť na výstavách**

**7.4. Účasť v programových a organizačných výboroch národných konferencií**   
   
Tabuľka 7c Programové a organizačné výbory národných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Meno pracovníka** | **Programový** | **Organizačný** | **Programový i organizačný** |
| **Spolu** |  |  |  |

**7.5. Členstvo v redakčných radách časopisov**

RNDr. Katarína Čunderlíková, PhD.

Frontiers in Network Physiology / Generalized Nets and Fuzzy Sets (funkcia: Associate Editor)

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Mathematica (funkcia: člen redakčnej rady)

Indian Journal of Mathematics (funkcia: člen)

J. Algebraic Hyperstructures and Logical Algebras (funkcia: člen)

Mathematica Slovaca (funkcia: výkonný editor)

Military and Science (funkcia: člen redakčnej rady)

Obzory matematiky, fyziky a informatiky (funkcia: člen redakčnej rady )

Soft Computing (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

Transactions on Fuzzy Sets and Systems (funkcia: člen redakčnej rady)

prof. RNDr. Michal Fečkan, DrSc.

Differential Equations & Applications (funkcia: editor)

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

Electronic Journal of Qualititive Theory of Differential Equations (funkcia: editor)

Journal of Applied Mathematics, Statistics and Informatics (JAMSI) (funkcia: editor)

Mathematica Slovaca (funkcia: editor)

Mathematical Notes, Miskolc University (funkcia: editor)

doc. RNDr. Ján Haluška, CSc.

Myšlienky a fakty, aperiodikum slovenských prírodovedcov a technikov, ISBN 978-80-89456-07-9 (funkcia: člen redakčnej rady)

Tatra Mountains Mathematica Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)

Mathematica Slovaca (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

Ing. Irena Jadlovská, PhD.

Applied Mathematics in Science and Engineering (funkcia: editor)

Journal of Mathematics and Computer Science (funkcia: editor)

Mathematica Slovaca (funkcia: editor)

doc. Mgr. Tibor Macko, PhD.

Mathematica Slovaca (funkcia: editor)

doc. Mgr. Ján Mačutek, PhD.

Glottometrics (funkcia: hlavný redaktor)

Glottotheory (funkcia: člen redakčnej rady)

Journal of Language Modelling (funkcia: člen redakčnej rady)

Journal of Quantitative Linguistics (funkcia: člen redakčnej rady)

RNDr. Alžbeta Michalíková, PhD.

Journal Frontiers in Network Physiology (funkcia: Associate Editor for Generalized Nets and Fuzzy Sets)

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board member)

prof. RNDr. Roman Nedela, DrSc.

Acta Universitatis Mathiae Belii, Ser. Math. (funkcia: člen redakčnej rady)

Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

Journal of Environmental Protection, Safety, Education and Management (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. PaedDr. Martin Papčo, PhD.

Obzory matematiky, fyziky a informatiky (OMFI) (funkcia: člen edičnej rady)

RNDr. Jozef Pócs, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. RNDr. Sylvia Pulmannová, DrSc.

International Journal of Theoretical Physics (funkcia: člen)

Mathematica Slovaca (funkcia: vedúci redaktor)

Tatra Mountains Mathematical Publications (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Gejza Wimmer, DrSc.

Mathematica Slovaca (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

**7.6. Činnosť v domácich vedeckých spoločnostiach**

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (funkcia: člen)

RNDr. Katarína Čunderlíková, PhD.

JSMF - Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Humboldtov klub (funkcia: člen)

Jednota slovenských matematikov a fyzikov (funkcia: člen výboru JSMF BA 1)

Učená spoločnosť SAV (funkcia: člen)

prof. RNDr. Michal Fečkan, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Emília Halušková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

Ing. Michal Hospodár, PhD.

Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Galina Jirásková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Martin Kochol, PhD., DSc.

Humboldtov klub na Slovensku (funkcia: člen)

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Mgr. Michaela Koščová, PhD.

Slovenská štatistická a demografická spoločnosť (funkcia: člen)

RNDr. Alžbeta Michalíková, PhD.

JSMF - Jednota slovenských matematikov a fyzikov (funkcia: člen)

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Viktor Olejár

QSlovakia (funkcia: Koordinátor)

Mgr. Eva Plávalová, PhD.

Slovenská astronomická spoločnosť pri Slovenskej akadémii vied (funkcia: predseda sekcie terminológie)

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

**7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách**

**8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie**

**8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.**

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Názov orgánu** | **Funkcia** |
| doc. RNDr. Karol Nemoga, CSc. | Zbor expertov – ISEG, NATO | člen |

**8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy**

**8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO**

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Názov orgánu** | **Funkcia** |

**8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu**

**9. Aktivity v orgánoch SAV**

**9.1. Členstvo vo Výbore Snemu SAV**

doc. RNDr. Karol Nemoga, CSc.

- člen

**9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV**

**9.3. Členstvo v komisiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

- Komisia SAV pre ekonomické otázky (člen)

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

- Rada riaditeľov (člen výboru RR SAV, podpredseda 1. 1. - 30. 6. 2023,   
 predseda 1. 7. 2023 - 31. 5. 2024)

**9.4. Členstvo v orgánoch VEGA**

Mgr. Martin Bečka, PhD.

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

prof. RNDr. Michal Fečkan, DrSc.

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

Mgr. Anna Jenčová, DrSc.

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)   
 **10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv**

**10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R**

Matematický ústav SAV, v. v. i. ako príjemca grantov rámcových projektov sa podpisom grantovej dohody zaväzuje k dodržiavaniu článku 32, ktorý stanovuje pravidlá zamestnávania vedeckých pracovníkov a zaisťovanie kvalitných pracovných podmienok. Článok 32 grantovej dohody zaväzuje príjemcov k dodržiavaniu zásad Európskej charty pre výskumných pracovníkov a Kódexu pravidiel pre ich zamestnávanie (ďalej Charty a Kódexu). Kladieme dôraz na pracovné podmienky, transparentný nábor na základe kvalifikácie a skúseností a vytváranie priaznivého prostredia pre kariérny rozvoj.

Po analýze našej práce sme realisticky vyhodnotili, aké zmeny môžeme uskutočniť a na základe tejto analýzy sme vypracovali akčný plán. Hodnotenie akčného plánu je obsiahnuté v kapitole 14.

*Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.*

**10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti**

Rodová rovnosť je jednou z kľúčových hodnôt Európskej únie. Zásada rovnakého zaobchádzania je právne zakotvená vo vnútroštátnej legislatíve Slovenskej republiky. Základným právnym predpisom v tejto oblasti je Ústava Slovenskej republiky. Slovenská republika ako členská krajina EÚ je zároveň povinná prevziať právne záväzky, ako sú napríklad antidiskriminačné smernice. Zákon č. 365/2004 Z. z. o rovnakom zaobchádzaní v niektorých oblastiach a o ochrane pred diskrimináciou a o zmene a doplnení niektorých zákonov (antidiskriminačný zákon) je transpozíciou smerníc do vnútroštátnej legislatívy. Zákon za súčasť odstraňovania diskriminácie okrem jej zákazu určuje aj dôležitú povinnosť prijať také preventívne opatrenia, ktoré budú diskriminácii predchádzať. Princípy rodovej rovnosti a nediskriminácie sú zakotvené aj v ďalších národných predpisoch, napr. v Zákonníku práce a rovnako v medzinárodných dohovoroch a strategických dokumentoch.

Plán rodovej rovnosti a stratégia vo vyrovnávaní šancí boli prijaté na celoakademickej úrovni.

Primárnym hľadiskom pri prijímaní vedeckých pracovníkov na Matematický ústave SAV, v. v. i. a pri určovaní ich zaradenia je ich vedecká výkonnosť. Podľa Tabuľky 1a a Tabuľky 1b je zatiaľ prevaha mužov nad ženami v počte vedeckých pracovníkov a zodpovedajúca prevaha v kvalifikačných stupňoch. Na Matematickom ústave v roku 2024 boli z 9 pracovníkov s hodnosťou DrSc. 4 pracovníčky z toho jedna získala vedeckú hodnosť DrSc. v r. 2022 po úspešnej obhajobe na sklonku roku 2021. Do určitej miery sme limitovaní aj skladbou absolventov škôl nášho zamerania, kde majú prevahu muži. Budeme vytvárať podmienky pre dobrú prácu žien s uvážením ich ďalších povinností v rodine. Na Matematickom ústave sme otvorení každému, kto chce a môže prispieť k rozvoju matematiky v rámci našich možností. Jediné hľadisko bola a vždy bude kvalita uchádzačky alebo uchádzača.

*Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.*

**10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov**   
*Prípadný stručný komentár ako úvod (nepovinný).*

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Organizácia SAV je nositeľom projektu** | | | **Organizácia SAV je zmluvným partnerom** | | |
| **Počet** | **Hlavný riešiteľ** | | **Počet** | **Hlavný riešiteľ  za organizáciu** | |
| **Muž** | **Žena** | **Muž** | **Žena** |
| **1. Projekty VEGA** | 11 | 7 | 4 | 2 | 1 | 1 |
| **2. Projekty APVV** | 2 | 1 | 1 | 7 | 6 | 1 |
| **3. Projekty EŠIF/OP ŠF,   Plán obnovy EÚ** | 3 | 2 | 1 | 0 | 0 | 0 |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 1 | 1 | 0 | 0 | 0 | 0 |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 0 | 0 | 0 | 0 | 0 | 0 |

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Organizácia SAV je nositeľom projektu** | | | **Organizácia SAV je zmluvným partnerom** | | |
| **Počet** | **Hlavný riešiteľ** | | **Počet** | **Hlavný riešiteľ  za organizáciu** | |
| **Muž** | **Žena** | **Muž** | **Žena** |
| **1. Projekty Horizont 2020 a   Horizont Európa** | 0 | 0 | 0 | 0 | 0 | 0 |
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 0 | 0 | 0 | 0 | 0 |
| **3. Projekty COST** | 0 | 0 | 0 | 0 | 0 | 0 |
| **4. Projekty EUREKA, NATO,   UNESCO, CERN, IAEA, IVF,   ERDF a iné** | 0 | 0 | 0 | 0 | 0 | 0 |
| **5. Projekty v rámci medzivládnych   dohôd** | 0 | 0 | 0 | 0 | 0 | 0 |
| **6. Bilaterálne projekty MAD,   Mobility, Open Mobility** | 0 | 0 | 0 | 0 | 0 | 0 |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | 0 | 0 | 0 | 0 |
| **8. Podpora MVTS z národných   zdrojov (SAV, APVV a iné)** | 0 | 0 | 0 | 0 | 0 | 0 |
| **9. SAS-UPJŠ ERC Visiting   Fellowship Grants** | 0 | 0 | 0 | 0 | 0 | 0 |
| **10. Iné projekty** | 0 | 0 | 0 | 0 | 0 | 0 |

**10.2.2. Výskum zameraný na rodovú problematiku**

Neprebieha žiadny výskum v tejto oblasti.

*Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.*

**10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv**

Pracovisko každý rok realizuje audit pracovných a hygienických podmienok všetkých zamestnancov. Na základe správy z auditu sa každoročne zlepšujú podmienky pre pracovníkov podľa záverov v správe z auditu.

Na pracovisku pôsobí odborová organizácia. Jej pôsobením a kolektívnym vyjednávaním sa každoročne prijíma kolektívna zmluva, na základe ktorej sa zlepšujú podmienky pracovníkov (dĺžka dovolenky, príspevok na stravu, a pod.).

*Uveďte stručné, základné informácie k problematike.* **11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii**

**11.1. Správna rada - zloženie a základná informácia o činnosti**

*Uveďte stručné, základné informácie k problematike.*

**Členovia SR:**

· doc. RNDr. Karol Nemoga, CSc. (predseda)

· prof. RNDr. Anatolij Dvurečenskij, DrSc. (podpredseda)

· doc. Ing. Gabriel Okša, CSc.

· RNDr. Jozef Pócs, PhD.

· RNDr. Tibor Žáčik, CSc.

**11.2. Vedecká rada - zloženie a základná informácia o činnosti**

*Uveďte stručné, základné informácie k problematike.*

**Členovia VR:**

· Mgr. Anna Jenčová, PhD. (predsedníčka)

· doc. RNDr. Ľubica Holá, DrSc.

· Mgr. Marek Hyčko, PhD. (podpredseda)

· prof. RNDr. Roman Nedela, DrSc.

· doc. RNDr. Sylvia Pulmannová, DrSc.

**externí pracovníci VR:**

· doc. RNDr. Viktor Witkovský, CSc.

· prof. RNDr. Pavol Zlatoš, CSc.

**11.3. Dozorná rada - zloženie a základná informácia o činnosti**

*Uveďte stručné, základné informácie k problematike.*

**Členovia DR:**

· Ing. Ivana Budínska, PhD. (predsedníčka)

· Ing. Romana Jurkiewiczová

· prof. RNDr. Martin Kalina, CSc.

**11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii**

*Uveďte stručné, základné informácie k problematike.*

V období roku 2024 nenastali žiadne organizačné zmeny.

**11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa**

*Uveďte stručné, základné informácie k problematike.*

V období roku 2024 nenastali žiadne zmeny.

**12. Činnosť knižnično-informačného pracoviska organizácie**

**12.1. Knižničný fond**

Tabuľka 12a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | |  |
| z toho | knihy a zviazané periodiká | 27 257 |
| audiovizuálne dokumenty | 27 151 |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | 2 |
| Rukopisy, vzácne tlače | - |
| Počet titulov dochádzajúcich periodík | | 77 |
| z toho zahraničné periodiká | | 67 |
| Ročný prírastok knižničných jednotiek | | 104 |
| v tom | kúpou | 14 |
| darom | 2 |
| výmenou | 88 |
| bezodplatným prevodom | - |
| náhradou | - |
| Úbytky knižničných jednotiek | | - |
| Knižničné jednotky spracované automatizovane | | - |

*Výraz* ***„v tom“*** *označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.*

*Výraz* ***„z toho“*** *označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.*

**12.2. Výpožičky a služby**

Tabuľka 12b Výpožičky a služby

|  |  |  |
| --- | --- | --- |
| **Výpožičky spolu (riadok 1)** | | 13 |
| v tom z r. 1 | prezenčné výpožičky | 4 |
| absenčné výpožičky | 9 |
| v tom z r. 1 | odborná literatúra pre dospelých | 8 |
| výpožičky periodík | 5 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 32 |

**12.3. Používatelia**

Tabuľka 12c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 18 |

**12.4. Iné údaje**

Tabuľka 12d Iné údaje

|  |  |
| --- | --- |
| On-line katalóg knižnice na internete ( 1=áno, 0=nie) | 0 |
| Náklady na nákup knižničného fondu v € | 1 654,86 |

**12.5. Iné informácie o knižničnej činnosti**

V roku 2024 bol stále voľný prístup do informačnej databázy zbMATH Open (pôvodne Zentralblatt MATH) (Európska Mathematical Society, Heidelberg Academy of Sciences and Humanities a FIZ Karlsruhe GmbH), čo je veľmi významný zdroj sekudárnych informácií.

Dôležitý bol aj prístup do primárnych dokumentov veľkých vydavateľstiev ako je Springer, Wiley, DeGruyter, Science Direct (Elsevier), a podobne. Ale aj databázam ako je napríklad JSTOR.

**13. Nadácie a fondy pri organizácii**   
   
Na pracovisku v súčasnosti nepôsobia žiadne fondy alebo nadácie. **14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie**

**14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV**

Vzhľadom na to, že oproti roku neprebehla ďalšia akreditácia zostávajú závery a odporúčania akreditačného panelu rovnaké ako v roku 2023. Nebudeme opakovať text z minuloročnej správy, ale uvedieme iba prípadné zmeny v jednotlivých oblastiach.

1. Nedošlo ku zmene zamerania jednotlivých skupín pracovníkov. Na ústave je niekoľko skupín, v ktorých pracujú kľúčoví vedci slovenskej matematiky a na nich sú naviazané semináre a ďalší pracovníci hlavne na vysokých školách.

2. Panel vymenoval 7 oblastí, v ktorých vidí možný ďalší rozvoj. Tieto oblasti koincidujú s naším rozdelením, iba niektoré zamerania boli spojené. Zvýšenie počtu pracovníkov sme zatiaľ realizovali oproti akreditácii za dva roky o 7 percent. Pri nemeniacich sa limitoch organizácií je jediná cesta ku zvýšeniu počtu pracovníkov cez realizáciu domácich a zahraničných projektov. V tejto oblasti vyvíjame úsilie a získali sme celkove 4 projekty z Plánu obnovy.

3. V publikáciách sme v roku 2024 publikovali 81,7 % prác v časopisoch Q1 a Q2 oproti 76,8 % v roku 2023. Je to skoro rovnaké číslo, ale je to veľmi dobrý výsledok a pozitívny trend.

4. Publikačné ohlasy boli v roku 2024 (počítajú sa za rok 2023) o 11 % vyššie ako v roku 2023. Publikačné ohlasy považujeme za dôležité a v tejto oblasti dosahujeme dobré výsledky s pozitívnym trendom.

5. Ďalej sme spolupracovali s vysokými školami. Táto spolupráca je jedna z najrozsiahlejších v SAV a je tradične zameraná na dlhoročnú spolupôsobenie s konkrétnymi fakultami.

6. Dosahujeme významné príjmy mimorozpočtových (SAV) prostriedkov. V roku 2024 to bolo okrem realizovaných 111 tisíc EUR v APVV a 54 tisíc EUR z Plánu obnovy aj ďalších 216 tisíc EUR zo štrukturálnych fondov.

7. Vytvorili sme novú vizualizáciu na WEBe pracoviska. Zatiaľ bežia oba modely súbežne.

8. Pokračovali sme vo vydávaní troch časopisov .Matematika Slovaca je veľký všeobecný matematický časopis. Tatra Mountains Mathematica Publications publikuje monotematické zväzky a posilňuje spoluprácu s vysokými školami. Oba majú zásadný význam. Tretí časopis Uniform Distribution Theory je úzko zameraný špecializovaný časopis špičkovej úrovne, ktorý pravdepodobne odovzdáme kolegom vo Veľkej Británii. Spolupodieľanie sa na celosvetovej matematickej spolupráci považuje za dôležité.

9. Omladenie ústavu je jedna úloh, kde sme zatiaľ v roku 2024 nedosiahli významný pokrok. Zlepšenie stavu očakávame v roku 2025, keď budeme realizovať pobyty postdokov financované z plánu obnovy. Čiastočným úspechom je získanie troch projektov schémy R1-R4.

10. V roku 2024 sme realizovali jednu návštevu člena nášho poradného panelu na ústave.

11. Zvýšenie počtu pracovníkov sa snažíme realizovať získavaním externých projektov. To nám umožňuje zvýšiť rozpočet na jedného pracovníka.

12. V roku 2024 sa nám podarilo zvýšiť počet PhD. Študentov zvýšiť zo 6 na 7 prijatím zahraničného študenta z Pakistanu. Ďalší doktorand z Pakistanu nastúpil začiatkom roku 2025.

Matematický ústav SAV, v. v. i. prijal aj vlastné opatrenia na zlepšenie výsledkov akreditácii 2026/2027.

V tomto smere boli lepšie formulované závery predchádzajúcej akreditácie preformulované tavené do akčného plánu, ktorý sa stále snažíme napĺňať.

Z hľadiska financovania ústavu bolo dôležitým prvkom prijatie výkonnostnej zmluvy z P SAV. Priebežné hodnotenie plnenia ukazovateľov predpokladáme v 1. polroku 2025.

**14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia**

Akčný plán bol zameraný na všetky oblasti, ktoré postihoval Akčný plán SAV. Hlavné zameranie ústavu vo všetkých smeroch jeho činnosti aj v r. 2024 boli.

1. Doktorandské štúdium
2. Spolupráca s VŠ
3. Diverzita pracovníkov
4. Projektová aktivita, medzinárodné projekty
5. Medziakademická spolupráca
6. Strategické zameranie
7. Multidisciplinárny výskum
8. Strategické formovanie ústavu
9. Pomenovanie ústavu
10. Publikačné prostredie
11. Publikovanie vlastných výsledkov
12. Vydávanie časopisov
13. Problematika duševného vlastníctva
14. Rozpočet pracoviska
15. Manažment a infraštruktúra pracoviska

Akčný plán je každoročne prehodnocovaný. Plnenie jednotlivých položiek je uvedené už v časti 14.1.

**14.3. Aktualizácia Akčného plánu organizácie v roku 2024**

V roku 2024 nedošlo ku zmene jednotlivých položiek. Významným zásahom v smerovaní ku konkrétnym výsledkom bolo uzatvorenie Výkonnostnej zmluvy so Slovenskou akadémiou vied. Konkrétne ukazovatele, ktoré musíme dosiahnuť za roky 2024 až 2026 sú nasledujúce.

1. Zvýšenie počtu výstupov o

* v 1. decile o aspoň 10 percent, t. j. za roky 2024 až 2026 celkove 20 článkov alebo
* v Nordic List Level 2 časopisoch o aspoň 10 percent, t. j. celkove aspoň 20 článkov alebo
* v zozname významných časopisov Matematického ústavu SAV, v. v. i. aspoň o 10 percent, t. j. aspoň 58 článkov za obdobie 2024 až 2026 .

2. Podanie medzinárodného grantu: Za splnenie cieľa sa bude považovať

* podanie grantu ERC, ktorý bude vyhodnotený, alebo
* podanie grantu ESA, ktorý bude vyhodnotený, alebo
* podanie grantu NATO MYP, ktorý bude vyhodnotený, alebo
* podanie grantu NATO ARW alebo NATO ASI, ktorý bude vyhodnotený alebo podanie podporného grantu (CSA) Horizon Europe, ktorý bude vyhodnotený alebo
* získanie alebo podanie, ktoré bude vyhodnotené významného medzinárodného grantu iného typu.

3. Zvýšenie počtu doktorandov. Chceme dosiahnuť zlepšenie o 10 percent, to znamená priemer 1,925 študenta po úspešnom vykonaní dizertačnej skúšky za rok a teda celkove za tri roky 6 študentov spolu (za predpokladu rovnakého počtu školiteľov). Určujúci je ukazovateľ.

4. Zvýšenie počtu postdoktorandov. Chceme dosiahnuť zlepšenie stavu o 10 percent. To znamená zvýšenie podielu na rok na 0,076 a celkové priemerné číslo asi 2,53 (FTE) postdoktoranda na rok (za predpokladu rovnakého priemerného počtu vedeckých pracovníkov). Rozhodujúci je ukazovateľ.

5. Popularizačné výstupy. Chceme dosiahnuť realizovaním aspoň jedného výstupu v celoštátnych médiách alebo rozsiahlejšieho projektu. To znamená aspoň tri takéto záznamy/výstupy za sledované obdobie rokov 2024 až 2026.

6. Matematický ústav SAV, v. v. i. zaktualizuje svoju stratégiu a akčný plán do 30. júna 2025.

Podklady:

* Správa v. v. i. hodnotiaca implementáciu stratégie a akčného plánu v. v. i. v rokoch 2024–2026
* Správa v. v. i. o nakladaní s ľudskými zdrojmi na v. v. i. v období 2024–2026.
* Výročné správy v. v. i. za roky 2024, 2025, príp. 2026, stanoviská Ekonomicko-technického odboru Úradu SAV a vedenia príslušného oddelenia vied SAV a pod.
* Správy o (príp. zápisnice z) činnosti vedeckej a správnej rady v. v .i. za roky 2024, 2025, príp. 2026, správa o činnosti medzinárodného poradného panelu v. v. i. za obdobie 2024–2026, správy o činnosti dozornej rady v. v. i. za roky 2024, 2025, príp. 2026 (vypracované dozornou radou v. v. i.) a pod.

**15. Iné významné činnosti organizácie**

Od. 1.7.2011 sa spojili komisie pre obhajobu doktorských dizertačných prác, takže dnes existujú už len tri stále matematické komisie pre obhajobu DrSc. V r. 2017 bol vymenovaný prof. RNDr. A. Dvurečenskij, DrSc. za predsedu ad hoc komisie pre obhajoby doktorských dizertačných prác v odbore vedy a techniky 010108 Pravdepodobnosť a matematická .

Matematický ústav SAV, v. v. i. sa venuje aktívne aj publikovaniu vedeckých matematických časopisov. Najväčšiu tradíciu má Mathematica Slovaca, časopis vydávaný už od roku 1951; je to medzinárodný (medzinárodná redakčná rada má 39 členov, z toho 18 zahraničných) a recenzovaný (karentovaný AMS) časopis, indexovaný v databáze SCI a SCOPUS. V roku 2008 prevzalo distribúciu časopisu vydavateľstvo Springer-Verlag (2007 - 2014) v spolupráci so spoločnosťou Versita, od roku 2015 spoločnosť De Gruyter, ktorá prevzala/zakúpila spoločnosť Versita. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

V r. 2007 začal byť časopis Mathematica Slovaca indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. V súčasnosti patrí do prvého kvartilu Q1. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Časopis prešiel od 600 strán formátu B5 a 48 článkov (2007) ku dnešným 1500 stranám formátu A4 s asi 130 článkami.

Vyše 75 % prác je zamietnutých (z viac ako 750 zaslaných). V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2023)=1.6, a je v prvom kvartile v sekcii matematika. V databáze Scopus má časopis SJR(2023)=0,404 (Scimago Journal Ranking) a je v 2. kvartile.

Aj keď distribúcia časopisu prostredníctvom vydavateľstva Springer-Verlag spôsobila redukciu výmeny časopisu (vydavateľstvo Springer-Verlag bol výhradný distribútor v období 2008-2014), dosiahli sme významne väčšie rozšírenie časopisu medzi čitateľov. Rovnako, pre našich pracovníkov je najvýznamnejší prístup ku informáciám v elektronickej forme. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1993. Adresa je <https://maslo.mat.savba.sk>. Adresa časopisu na stránkach spoločnosti Springer je

<http://www.springer.com/journal/12175>.

Adresa časopisu na stránkach spoločnosti Versita bola

<http://www.versita.com/science/mathematics/maslo> (odkaz už nefunguje).

Od roku 2016 je distribútorom časopisu vydavateľstvo De Gruyter a adresa časopisu je

<https://www.degruyter.com/journal/key/ms/html>,

odkiaľ je prístup aj na predchádzajúce čísla (2007-2015). Elektronický prístup k starším ročníkom 1 (1957) - 57 (2007) je na českej elektronickej knižnici:

<https://dml.cz/handle/10338.dmlcz/134237>.

Ďalší časopis vydávaný ústavom Tatra Mountains Mathematical Publications vznikol v r. 1992 a vydávame ho v spolupráci s niektorými vysokými školami. Publikujú sa v ňom pôvodné vedecké práce zo všetkých oblastí matematického výskumu, ale vo forme monotematických čísel.

Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. V r. 2024 vyšiel 86. zväzok a do 15. Februára budú tlačou publikované ešte dva zväzky. Články z týchto zväzkov sú už dostupné online v časti AHEAD OF PRINT. Od zväzku 15 sú niektoré zväzky časopisu zaradené do Current Contents - Index to Scientific Book Contents CC / Physical, Chemical and Earth Sciences. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1992. Od vol. 41 v r. 2008 je indexovaný v databáze WOS (Web of Science) a CPCI (Conference Proceedings Citation Index). Od r. 2011 je tento časopis indexovaný aj v databáze Scopus. Jeho SJR (Scimago Journal Ranking) má hodnotu 1.0 a je v 3. kvartile.

Ústav získava (predajom, resp. výmenou za tento časopis) časť svojich informačných zdrojov. Adresa je <https://tatra.mat.savba.sk>. Časopis je od roku 2009 distribuovaný ako Open Access aj spoločnosťou Sciendo (a De Gruyter company) s WEB stránkou:

[https://sciendo.com/journal/TMMP](https://sciendo.com/journal/tmmp).

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2024 vyšiel 18. ročník. Adresa je http://udt.mat.savba.sk a http://www.boku.ac.at/MATH/udt. Časopis vydávame spolu s BOKU University vo Viedni a University of Liverpool. Je to vysoko špecializovaný vedný časopis, ktorý uverejňuje prevažne príspevky zahraničných autorov (95 percent). V roku 2016 sa dohodla jeho distribúciu aj cez spoločnosť Sciendo (a De Gruyter company) na adrese

[https://sciendo.com/journal/UDT](https://sciendo.com/journal/udt).

Matematický ústav SAV sa spolu s Jednotou slovenských matematikov a fyzikov a Fakultou prírodných vied Univerzity Konštantína Filozofa v Nitre podieľa na príprave časopisu Obzory matematiky, fyziky a informatiky (ISSN: 1335-4981). Tento časopis je určený hlavne pre stredoškolských učiteľov matematiky, fyziky a informatiky.

Vydávanie (resp. spolupráca pri vydávaní) uvedených časopisov spolu s udržiavaním časopiseckej i knižnej vedeckej knižnice je popri vedeckej produkcii azda najvýznamnejšou aktivitou, ktorou ústav prispieva tak do pokladnice národnej kultúry ako aj medzinárodnej vedeckej spolupráce a vzájomného porozumenia.

**Porovnanie financovania ústavu a iných aktivít oproti predošlým rokom.**

V priebehu roku 2024 sme pokračovali v riešení projektu 313011BWH2 „*InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF*“, ktorý bol v roku 2023 úspešne ukončený, v rámci udržateľnosti projektu. Taktiež v roku 2024 prebiehala ešte refundácia výdavkov tohto projektu.

V APVV sme v roku 2023 riešili zhruba rovnaký počet projektov ako v roku 2023, s nárastom 2+7 oproti 2+6 v roku 2023. Príjmy pre MÚ SAV boli oproti roku 2023 o 23,5% vyššie (92 799 oproti 75 164 EUR v roku 2023). Celkový príjem APVV bol až 111 550 EUR, ale 18 751 EUR bol transfer na spoluriešiteľov. Podali sme aj niekoľko ďalších žiadostí o granty APVV, ktoré by sa mali realizovať od roku 2025.

V projektoch VEGA sme po náraste v roku 2023, v ich počte a zvýšniu príjmov o 22% oproti roku 2022, zaznamenali pokles o zhruba 15 %, v absolútnych číslach 11 114EUR. Prejavuje sa tu stále dynamika v počte pracovníkov, ktorí riešia projekty VEGA, pokles nie je z hľadiska celkových výdavkov významný.

Z 11 podaných žiadostí o granty R1 - R4 Plánu obnovy sme boli úspešní v troch projektoch, ktoré sa začali financovať už v roku 2024.

Ďalej bol schválený projekt Plánu obnovy 09I05-03-V02-00084, „*Digital solutions in support of mental health in patients with CHF*“, kde je Matematický ústav SAV hlavný riešiteľ s financovaním

od 1. 4. 2024 (v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o.) Projekt bude pokračovať v rokoch 2025, 2026 a rok 2024 bude spätne prefinancovaný.

Stav počtu pracovníkov v roku 2024 bol nepatrne vyšší ako v roku 2023 (47,18 oproti 46,89) Limit počtu pracovníkov pre ústav bol stále 46. Priemerný vek vedeckých pracovníkov/riešiteľov projektov sa zvýšil o 0,1 roku, čo je stagnácia, ale stále to nie je omladenie, ktoré je pre ústav dôležité.

Matematický ústav SAV, v. v. i. má stále prístup do databázy Zentralblatt MATH, Nemecko, ktorý je teraz všeobecne bezplatný. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2024 nerealizovali.

Popularizačná aktivita ústavu sa v roku 2024 zvýšila. Realizovali sme 16 prednášok resp. besied a mali sme aj TV vystúpenie na celoštátnej úrovni. Zúčastnili sme sa akcie Deň otvorených dverí, v rámci Týždňa otvorených dverí. Zvýšenie dôrazu na popularizáciu boli dané tým, že je to parameter hodnotenia vo výkonnostných zmluvách.

**16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám**

**Matematický ústav SAV z pohľadu zákona č. 211/2000 Z.z.**

**o slobodnom prístupe k informáciám**

Podmienky, postup a rozsah slobodného prístupu občanov k informáciám vymedzeného v čl. 26, 45 a 34 Ústavy Slovenskej republiky a v čl. 17, 25 a 35 Listiny základných práv a slobôd ustanovuje zákon č. 211/2000 Z. z. o slobodnom prístupe k informáciám spolu s jeho novelizáciami platnými od 2. januára 2006 v podobe zákona č. 628/2005 Z. z., ktorým sa mení a dopĺňa zákon č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení zákona č. 747/2004 Z. z. a o zmene niektorých zákonov. V tomto zákone je uvedený rozsah povinností tzv. povinnej osoby (§ 2 citovaného zákona) pri informovaní žiadateľov o informácie (§ 4 citovaného zákona), ale i postup pri poskytovaní informácií podľa tohto zákona.

V zmysle zákona č. 211/2000 Z. z. je Matematický ústav SAV povinný zverejňovať informácie uvedené v § 3 ods. 2 a § 5 ods. 1 citovaného zákona (povinné zverejňovanie informácií) a ďalšie informácie na žiadosť.

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

**Spôsob zriadenia povinnej osoby, jej právomoci a kompetencie a popis organizačnej štruktúry**

Matematický ústav SAV (ďalej len MÚ SAV) je právnickou osobou zriadenou na základe zákona č. 74/1963 Zb. o Slovenskej akadémii vied v znení

· zákona č. 43/1970 Zb.,

· zákona č. 92/1977 Zb.,

· zákona č. 7/1990 Zb.,

· zákona č. 291/1992 Zb.,

· zákona č. 11/1993 Z.z.,

· zákona č. 75/1995 Z.z.

|  |  |
| --- | --- |
| **Názov organizácie:** | Matematický ústav SAV |
| **Sídlo MÚ SAV:** | Bratislava, Štefánikova 49, 814 73 Bratislava |
| **Identifikačné číslo:** | 166791 |
| **Forma hospodárenia:** | rozpočtová organizácia |
| **Dátum zriadenia:** | 01.03.1959 |
| **Označenie štatutárneho orgánu:** | riaditeľ |

MÚ SAV je vedecká inštitúcia SR prispievajúca k rozvoju základného výskumu v matematike (najmä logika a teória množín, teória čísel, algebraické a topologické štruktúry, kvantové štruktúry diskrétna matematika, reálna a funkcionálna analýza, dynamické systémy, pravdepodobnosť a matematické štatistika). V informatike sa zameriava na rozvoj teórie algoritmov a výpočtovej zložitosti a na teoretické aspekty formálnych jazykov, automatov a výpočtových systémov. Podieľa sa na pedagogickom procese na vysokých školách. Ústav uskutočňuje doktorandské štúdium v zmysle platných právnych predpisov. Participuje na medzinárodnej vedecko-technickej spolupráci, spolupracuje vo výskume a vzdelávaní s vysokými školami a rezortnými výskumnými a vzdelávacími inštitúciami a právnickými osobami z oblasti výroby a služieb.

Ústav poskytuje poradenské a ďalšie expertízne služby, súvisiace s hlavnou činnosťou organizácie.

Ústav zabezpečuje publikáciu súvisiacu s vedecko–výskumnou činnosťou prostredníctvom periodickej a neperiodickej tlače. Vydávanie periodickej tlače sa riadi usmerneniami Predsedníctva SAV.

**Organizačná štruktúra MÚ SAV:**

· Matematický ústav SAV, Štefánikova 49, 814 73 Bratislava

· Oddelenie informatiky MÚ SAV, Dúbravská cesta 9, 841 04 Bratislava

· Detašované pracovisko MÚ SAV, Grešákova 6, 040 01 Košice

· Inštitút matematiky a informatiky MÚ SAV, Ďumbierska 1, 974 11 Banská Bystrica

**Orgány MÚ SAV:**

· Vedecká rada MÚ SAV

· rada riaditeľa MÚ SAV.

Činnosť ústavu sa riadi Organizačným poriadkom MÚ SAV a Pracovným poriadkom MÚ SAV.

**Financovanie MÚ SAV:**

MÚ SAV je financovaný z rozpočtovej kapitoly štátneho rozpočtu, ktorej správcom je SAV. Práva a povinnosti MÚ SAV pri správe a nakladaní s majetkom štátu sú stanovené zákonom č. 278/1993 Z.z. o správe majetku štátu v znení neskorších predpisov. MÚ SAV hospodári s rozpočtovými prostriedkami a s prostriedkami prijatými od iných subjektov v zmysle zákona č. 303/1995 Z.z. v znení neskorších predpisov.

Ďalšími zdrojmi financovania pracoviska sú

· prostriedky štátneho rozpočtu získané na základe účasti vo verejnej súťaži vypísanej na účelové financovanie úloh výskumu a vývoja

· príjmy z vlastnej činnosti

· prostriedky z medzinárodných programov výskumu a vývoja

**Organizačná štruktúra ústavu**: na internetovej stránke www.mat.savba.sk/struktura.php

**MÚ SAV je povinné zverejňovať aj**

· označenie nehnuteľnej veci a hnuteľnej veci vo vlastníctve štátu, ktorej nadobúdacia cena bola vyššia ako 20-násobok minimálnej mzdy (§2 ods. 1 písm. b) zákona č. 90/1996 Z. z. o minimálnej mzde), ktorú MÚ SAV previedol do vlastníctva, alebo ktorá prešla do vlastníctva inej osoby než orgánu verejnej moci

· dátum prevodu alebo prechodu vlastníctva a právny titul

· informácie o osobných údajoch a iných identifikačných údajoch osôb, ktoré nadobudli tento majetok do vlastníctva, a to v rozsahu: a) meno a priezvisko, názov alebo obchodné meno; b) adresa pobytu alebo sídlo; c) identifikačné číslo, ak ide o právnickú osobu alebo fyzickú osobu –podnikateľa.

Za nadobúdaciu cenu na účely zverejnenia sa považujú, ak ide o vlastné zhotovenie, náklady na zhotovenie, a ak ide o bezodplatné nadobudnutie, cena obvyklá za obdobnú vec v mieste a čase nadobudnutia.

Uvedené informácie sa zverejňujú najmenej po dobu jedného roka odo dňa, keď došlo k prevodu alebo prechodu vlastníctva.

Tým nie je dotknutá povinnosť sprístupniť túto informáciu aj po uplynutí tejto doby.

**Miesto, čas a spôsob akým možno získať informácie; informácie o tom, kde možno podať žiadosť, návrh, podnet, sťažnosť alebo iné podanie:**

(1) Povinne zverejňované informácie možno získať na internetovej stránke www.mat.savba.sk (www.sav.sk), na informačnej tabuli MÚ SAV (Štefánikova 49, Bratislava)

(2) Nezverejnenú informáciu ústav sprístupní na základe žiadosti o sprístupnenie informácie (ďalej len „žiadosť”). Žiadosť môže žiadateľ podať písomne, ústne, faxom, elektronickou poštou alebo iným technicky vykonateľným spôsobom. Zo žiadosti musí byt zjavné, kto ju podáva, ktorých informácií sa týka a aký spôsob sprístupnenia informácie žiadateľ navrhuje.

(3) Informácia môže byť sprístupnená

a. ústne,

b. nahliadnutím do spisu s možnosťou vyhotoviť si odpis alebo výpis v sídle ústavu,

c. odkopírovaním informácií na technický nosič dát,

d. sprístupnením kópií predlôh s požadovanými informáciami,

e. telefonicky,

f. faxom,

g. poštou,

h. e-mailom,

i. odkazom na už zverejnenú informáciu.

Informácia sa sprístupňuje formou určenou žiadateľom a až keď nie je možné ju sprístupniť touto formou, po dohode so žiadateľom nasledujú iné možnosti. Prihliada sa pritom na charakter informácie, spôsob podania žiadosti a tiež na technické možnosti ústavu.

(4) Na základe žiadosti musí ústavu sprístupniť všetky informácie, ktoré má k dispozícii, predovšetkým informácie týkajúce sa hospodárenia s verejnými prostriedkami a nakladania s majetkom štátu, pričom ústav musí prijať, zaevidovať a vybaviť každú žiadosť, návrh alebo iné podanie.

(5) Ústav žiadosť vybaví najneskôr do osem pracovných dní od jej podania, v odôvodnených prípadoch sa táto lehota predlžuje o ďalších 8 pracovných dní. Ak nie je možné dodržať osemdňovú lehotu, ústav to bezodkladne, najneskôr pred uplynutím osemdňovej lehoty oznámi žiadateľovi písomne s uvedením dôvodov, ktoré viedli k predĺženiu lehoty.

(6) Závažnými dôvodmi predĺženia lehoty, najviac o osem pracovných dní sú:

· vyhľadávanie a zber väčšieho počtu oddelených alebo odlišných informácií požadovaných na sprístupnenie v jednej žiadosti,

· vyhľadávanie a zber väčšieho počtu oddelených alebo odlišných informácií požadovaných na sprístupnenie žiadosti,

· preukázateľné technické problémy spojené s vyhľadávaním a sprístupňovaním informácie, o ktorých možno predpokladať, že ich možno odstrániť v rámci predĺženej lehoty.

(7) Žiadosť o sprístupnenie informácie možno podať :

· ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava

· telefonicky na telefónnom čísle : 02 / 5751 0414

· faxom na faxové spojenie : 02 / 5249 7316

· e-mailom na adresu : mathinst@mat.savba.sk

**Postup ústavu pri vybavovaní žiadostí, návrhov, a iných podaní, vrátane lehôt, ktoré je nutné dodržať**

(1) Za včasné a pravdivé poskytnutie informácií a vybavovanie žiadostí je zodpovedný Matematický ústav SAV.

(2) Evidenciu všetkých podaných žiadostí vedie Matematický ústav SAV.

(3) Evidencia obsahuje predovšetkým :

· dátum podania žiadosti,

· obsah žiadosti, formu podania (napr. písomne, faxom, elektronickou poštou) a navrhovaný spôsob sprístupnenia informácie,

· výsledok, formu a dátum vybavenia žiadosti (napr. poskytnutie informácie kompletnej alebo čiastočnej, forma poskytnutia informácie, výzva na doplnenie, rozhodnutie o neposkytnutí, neposkytnutie bez vydania rozhodnutia, odloženie veci, postúpenie inému orgánu),

· opravný prostriedok (dátum podania a výsledok vybavenia).

(4) Žiadosť je podaná dňom, keď došla ústavu.

(5) Na žiadosť žiadateľa ak ústav písomne potvrdí podanie žiadosti a oznámi predpokladanú výšku úhrady za sprístupnenie informácie.

(6) Ak predmetom žiadosti je získanie informácií, ktoré už boli zverejnené, MÚ SAV, môže bez zbytočného odkladu, najneskôr však do piatich dní od podania žiadosti, namiesto sprístupnenia informácií žiadateľovi oznámiť údaje, ktoré umožňujú vyhľadanie a získanie zverejnenej informácie.

(7) Ak žiadosť nemá predpísané náležitosti, ústav bezodkladne vyzve žiadateľa, aby v určenej lehote, ktorá nesmie byť kratšia ako sedem dní, neúplnú žiadosť doplnil. Poučí žiadateľa aj o tom, ako treba doplnenie urobiť. Ak napriek výzve ústavu žiadateľ žiadosť nedoplní a informáciu nemožno pre tento nedostatok sprístupniť, ústav žiadosť odloží bez vydania rozhodnutia, o čom vo výzve na doplnenie upozorní žiadateľa.

(8) Ak ústav nedisponuje požadovanými informáciami, žiadosť postúpi do piatich dní od jej podania príslušnej povinnej osobe, ak je jej známa. Lehota na vybavenie žiadosti začína plynúť znovu dňom, keď povinná osoba dostala postúpenú žiadosť.

Ak takáto povinná osoba nie je známa, ústav vydá do ôsmych pracovných dní od podania žiadosti rozhodnutie o jej odmietnutí.

(9) Odpoveď na žiadosť zasiela žiadateľovi MÚ SAV. Odpoveď podpisuje riaditeľ MÚ SAV.

(10) Žiadosť s dokumentáciou sa po vybavení ukladá na MÚ SAV. O sprístupnení informácie sa urobí rozhodnutie zápisom v spise. Spis musí obsahovať všetky písomnosti týkajúce sa vybavovania žiadosti, vrátane informácie o spôsobe vybavenia. Všetky písomnosti založené v spise musia byt označené číslom z centrálnej evidencie.

(11) V prípade, ak sa žiadosti nevyhovie, hoci len sčasti, vydá sa v lehote ôsmych pracovných dní písomné rozhodnutie o odmietnutí poskytnúť informáciu. Rozhodnutie sa nevydá, ak žiadosť bola odložená (§14 ods. 3).

(12) Rozhodnutie o odmietnutí poskytnúť informáciu sa vydáva z dôvodu:

a. ustanoveného obmedzenia prístupu k informáciám (§ 8 až 11 zákona),

b. keď nie je známa taká povinná osoba, ktorá disponuje požadovanými informáciami (§ 15 ods. 1 zákona).

(13) Rozhodnutie o odmietnutí poskytnúť informáciu sa nevydáva len v prípade, ak bola žiadosť odložená pre neodstránenie jej nedostatkov aj napriek predchádzajúcej výzve.

**Miesto, lehota a spôsob podania opravného prostriedku a možnosti súdneho preskúmania rozhodnutia:**

1. Proti rozhodnutiu ústavu o odmietnutí požadovanej informácie možno podať odvolanie v lehote 15 dní od doručenia rozhodnutia alebo márneho uplynutia lehoty na rozhodnutie o žiadosti. Odvolanie sa podáva ústavu.

2. O odvolaní proti rozhodnutiu ústavu rozhoduje riaditeľ ústavu, na základe vyjadrenia komisie, ktorú na tento účel ustanovil.

3. Riaditeľ rozhodne o odvolaní do 15 dní od jeho doručenia. Ak riaditeľ ústavu v tejto lehote nerozhodne, predpokladá sa, že vydal rozhodnutie, ktorým odvolanie zamietol a napadnuté rozhodnutie potvrdil; za deň doručenia tohto rozhodnutia sa považuje druhý deň po uplynutí lehoty na vydanie rozhodnutia.

4. Rozhodnutie o odmietnutí žiadosti možno preskúmať v súdnom konaní podľa zákona č. § 244 až 250 Občianskeho súdneho poriadku.

**Sadzobník úhrad za sprístupnenie informácií**

Informácie sa sprístupňujú bezplatne s výnimkou úhrady vo výške, ktorá nesmie prekročiť sumu materiálnych nákladov spojených so zhotovením kópií, so zadovážením technických nosičov a s odoslaním informácie žiadateľovi. Ústav odpustí úhrady nepresahujúce 0,66,- EUR (20,- Sk).

|  |  |
| --- | --- |
| Internet | zadarmo |
| Rozmnoženie 1 ČB strany | 0.03,- EUR (1,- Sk) |
| Rozmnoženie 1 farebnej strany | 0,10,- EUR (3,- Sk) |
| Na diskete | 0,50,- EUR (15,- Sk) |
| Na CD nosiči | 1,33,- EUR (40,- Sk) |

**Prehľad všeobecne záväzných právnych predpisov, pokynov, inštrukcií, výkladových stanovísk a interných normatívnych aktov, podľa ktorých ústav koná a rozhoduje**

1. zákon č. 74/1963 Zb. o Slovenskej akadémii vied v znení neskorších predpisov

2. zákon NR SR č. 278/1993 Z.z. o správe majetku štátu v znení neskorších predpisov

3. Matematický ústav 3. zákon NR SR č. 303/ 1995 Z.z. o rozpočtových pravidlách v znení neskorších predpisov

4. zákon č. 172/1990 Zb. o vysokých školách v znení neskorších predpisov

5. zákon č. 53/1964 Zb. o udeľovaní vedeckých hodností a o štátnej komisii pre vedecké hodnosti v znení neskorších predpisov

6. zákon č. 39/1977 Zb. o výchove nových vedeckých pracovníkov a o ďalšom zvyšovaní kvalifikácie v znení neskorších predpisov

7. vyhláška Československej akadémie vied č. 55/1977 Zb. o ďalšom zvyšovaní kvalifikácie a o hodnotení tvorivej spôsobilosti vedeckých pracovníkov

8. ostatné interné smernice / na internetovej stránke už sú uverejnené /

*Uveďte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.* **17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku**

Dynamické prehodnocovanie limitov pracovníkov na úrovni oddelení vied, ako aj celej SAV považujeme za dôležité.

Vyhodnocujeme skúsenosti z prechodu na v. v. i. Bolo by potrebné urýchlene nájsť cestu, ako vyraďovať nepoužiteľné predmety z majetku organizácie. Ďalej sa skomplikovalo účtovníctvo organizácie v závere roka. Rovnako legislatíva nazerá inak na výskumné organizácie RO/PO ako na VVI a spôsobuje to komplikácie takého typu, ako je napríklad pri transakčnej dani. Riešenie týchto problémov je na úrovni P SAV, resp. Úradu SAV.

Pri vykazovaní príjmov a výdavkov sa doteraz neuvádzajú prostriedky, ktoré boli v danom roku získané a ešte neboli použité. Tieto údaje by mohli byť v primeranej štruktúre zahrnuté do údajov výročných správ.

Stále vysoko hodnotíme trvajúci prístup ku vedeckým informáciám. Dôležité bude zabezpečiť rokovanie s vydavateľmi a distribútormi na celoštátnej úrovni, aby sme dosiahli prístupu „read and publish“, t. j. pre predplatení prístupu je zdarma alebo výrazne nižší poplatok za publikovanie open access našich príspevkov a vo väčšom rozsahu. Doteraz dávané počty sa veľmi rýchlo vyčerpajú. Rovnako bude treba rokovať aj o Open Access knihách a poplatkov za ne.

Navrhujeme, aby bola pripravená šablóna pre *Návštevný poriadok* popularizačných podujatí, ktoré sú organizované pracoviskami SAV pre verejnosť a študentov.

*Uveďte informácie a podnety v súlade s názvom kapitoly.* **18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok**   
   
 *Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.*   
   
Vedecká rada Matematického ústavu SAV, v. v. i. prerokovala dňa 10. 2. 2025 predkladanú výročnú správu, časť A.

Dosiahnuté výsledky za rok 2024 sú z hľadiska parametrov (články CC, WOS, kvartily) o niečo nižšie ako v minulom roku, ide však o bežný medziročný pokles. Ukazovatele v oblasti ohlasov sú zasa o niečo vyššie. Výber najdôležitejších výsledkov dosiahnutých na ústave dobre ilustruje vysokú úroveň vedeckého výskumu na pracovisku.

Z tohto hľadiska, ktoré považujeme za kľúčové (dosahované vedecké výsledky), je pracovisko plne spôsobilé vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 10. 2. 2025

Mgr. Anna Jenčová, DrSc.   
*predseda vedeckej rady*

**Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):**

prof. RNDr. Anatolij Dvurečenskij, DrSc., 02/ 5751 0412

Mgr. Marek Hyčko, PhD., 02/5751 0502

doc. RNDr. Karol Nemoga, CSc., 02/ 5751 0415

Bratislava, 10. 2. 2025

doc. RNDr. Karol Nemoga, CSc.   
*riaditeľ organizácie*

**PRÍLOHY k časti A**

***Príloha A-1***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2024**

**Zoznam zamestnancov podľa štruktúry**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Úväzok  (v %)** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [prof. RNDr. Anatolij Dvurečenskij, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2372) | 100 | 1.00 |
| 2. | [doc. RNDr. Ľubica Holá, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2378) | 100 | 1.00 |
| 3. | [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2380) | 100 | 1.00 |
| 4. | [prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5699) | 45 | 0.45 |
| 5. | [doc. RNDr. Sylvia Pulmannová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2386) | 50 | 0.50 |
| 6. | [doc. RNDr. Oto Strauch, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2389) | 60 | 0.60 |
| 7. | [prof. RNDr. Gejza Wimmer, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6723) | 100 | 1.00 |
| 8. | [Mgr. Andrea Zemánková, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5731) | 100 | 1.00 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | [RNDr. Martin Kochol, PhD., DSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2601) | 100 | 1.00 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [Mgr. Martin Bečka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5673) | 100 | 1.00 |
| 2. | [RNDr. Katarína Čunderlíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11192) | 100 | 1.00 |
| 3. | [Mgr. Natália Dilna, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7075) | 100 | 1.00 |
| 4. | [RNDr. Stefan Dobrev, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5681) | 100 | 1.00 |
| 5. | [prof. RNDr. Michal Fečkan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2373) | 50 | 0.50 |
| 6. | [prof. RNDr. Otokar Grošek, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13381) | 45 | 0.45 |
| 7. | [doc. RNDr. Ján Haluška, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5687) | 100 | 1.00 |
| 8. | [prof. RNDr. Miroslav Haviar, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12402) | 11 | 0.11 |
| 9. | [Ing. Michal Hospodár, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10212) | 100 | 1.00 |
| 10. | [Ing. Irena Jadlovská, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12670) | 100 | 1.00 |
| 11. | [RNDr. Galina Jirásková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5691) | 100 | 1.00 |
| 12. | [doc. Mgr. Ján Karabáš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5693) | 20 | 0.20 |
| 13. | [RNDr. Alžbeta Michalíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11193) | 11 | 0.11 |
| 14. | [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2369) | 100 | 1.00 |
| 15. | [doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5701) | 100 | 1.00 |
| 16. | [doc. RNDr. Milan Paštéka, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6691) | 3 | 0.03 |
| 17. | [RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5704) | 100 | 1.00 |
| 18. | [RNDr. Michal Pospíšil, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6622) | 20 | 0.20 |
| 19. | [doc. PhDr. Silvia Puteková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13296) | 16 | 0.16 |
| 20. | [doc. RNDr. Miroslav Repický, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5707) | 100 | 1.00 |
| **Vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Vladimír Baláž, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6707) | 1 | 0.01 |
| 2. | [RNDr. Peter Eliaš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5682) | 100 | 1.00 |
| 3. | [Raquel Fernández-Peralta, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=14354) | 100 | 0.33 |
| 4. | [doc. RNDr. Rudolf Hajossy, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6702) | 32 | 0.32 |
| 5. | [RNDr. Emília Halušková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5688) | 100 | 1.00 |
| 6. | [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5521) | 100 | 1.00 |
| 7. | [Mgr. Michaela Koščová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12414) | 100 | 0.36 |
| 8. | [RNDr. Martina Langerová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=14353) | 3 | 0.03 |
| 9. | [Ing. Fedor Lehocki, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13295) | 40 | 0.40 |
| 10. | [doc. Mgr. Tibor Macko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5697) | 25 | 0.25 |
| 11. | [doc. Mgr. Ján Mačutek, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12165) | 100 | 1.00 |
| 12. | [Mgr. Peter Mlynárčik, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=9397) | 11 | 0.11 |
| 13. | [Ing. Igor Mračka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7987) | 100 | 1.00 |
| 14. | [Mgr. Branislav Novotný, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5700) | 100 | 1.00 |
| 15. | [RNDr. Igor Odrobina, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12404) | 100 | 0.00 |
| 16. | [doc. PaedDr. Martin Papčo, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=8050) | 5 | 0.05 |
| 17. | [RNDr. Martin Plávala, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10048) | 100 | 0.00 |
| 18. | [Mgr. Eva Plávalová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11194) | 3 | 0.03 |
| 19. | [Mgr. Ladislav Stacho, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5714) | 100 | 0.00 |
| 20. | [doc. Ondrej Šuch, PhD., M.Sc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5716) | 25 | 0.25 |
| 21. | [Mgr. Elena Vinceková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5727) | 100 | 1.00 |
| 22. | [Dr. Omid Zahiri, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13294) | 100 | 1.00 |
| 23. | [RNDr. Tibor Žáčik, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2368) | 100 | 1.00 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [Ing. Ferdinand Čapka](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11918) | 3 | 0.03 |
| 2. | [Ing. Peter Sýs](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11919) | 3 | 0.03 |
| 3. | [Mgr. Jana Valigurská](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13041) | 3 | 0.03 |
| 4. | [Ing. Peter Zigman](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=14061) | 3 | 0.14 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Ing. Iveta Červenková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12407) | 90 | 0.88 |
| 2. | [RNDr. Dana Kákošová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11784) | 100 | 1.00 |
| 3. | [Ing. Miroslav Macura](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13297) | 50 | 0.50 |
| 4. | [Ing. Martin Maják](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13298) | 50 | 0.50 |
| 5. | [RNDr. Alexandra Mojžišová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11198) | 100 | 1.00 |
| 6. | [Mgr. Barbora Rajčeková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13846) | 60 | 0.60 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Marianna Bečková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12405) | 60 | 0.60 |
| 2. | [Jana Galbová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10283) | 100 | 1.00 |
| 3. | [Ivana Geriaková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2423) | 100 | 1.00 |
| 4. | [Ivana Hudecová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7230) | 90 | 0.90 |
| 5. | [Zuzana Kvapilová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11783) | 100 | 1.00 |
| 6. | [Eugénia Ondrušková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2374) | 100 | 1.00 |
| 7. | [Bc. Henrieta Paľová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6720) | 24 | 0.24 |
| 8. | [Katarína Štefančíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5719) | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Janka Badiarová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6709) | 33 | 0.33 |
| 2. | [Ing. Lucia Mišíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6716) | 36 | 0.36 |
| 3. | [Ing. Juraj Prochác](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12403) | 100 | 1.00 |
| 4. | [Beata Szabová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11196) | 100 | 1.00 |

**Zoznam zamestnancov, ktorí odišli v priebehu roka**

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|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedeckí pracovníci** | | | |
| 1. | [Albertus Lindenhovius, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13845) | 9.6.2024 | 0.44 |
| 2. | [RNDr. Igor Odrobina, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12404) | 31.12.2024 | 0.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Katarína Nagyová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6694) | 31.3.2024 | 0.15 |

**Zoznam doktorandov**

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|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Friday Ikechukwu Agu | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| 2. | Muhammad Azeem | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| 3. | Ing. Ferdinand Čapka | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| 4. | Mgr. Viktor Olejár | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| 5. | Ahmed Ibrahim Mohamed Mahmoud Abo Saied | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| 6. | Mgr. Jana Valigurská | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| *organizácia nemá interných doktorandov hradených z iných zdrojov* | | | |
| **Externí doktorandi** | | | |
| 1. | Mgr. Ivan Vlček | Fakulta matematiky, fyziky a informatiky UK | 1113 matematika |

**Zoznam zamestnancov prijatých do jedného roka od získania PhD.**

|  |  |  |  |  |
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|  | **Meno s titulmi** | **Dátum obhajoby** | **Dátum prijatia** | **Úväzok  (v %)** |

**Zoznam emeritných vedeckých zamestnancov**

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| --- | --- |
|  | **Meno s titulmi** |

***Príloha A-2***

**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Domáce projekty**

**Programy: VEGA**

**1.) Viachodnotové modely neurčitosti** *(Multivalued models of uncertainty)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Katarína Čunderlíková |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2025 |
| **Evidenčné číslo projektu:** | VEGA 2/0122/23 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1425 € |

*Dosiahnuté výsledky:*

Zaoberali sme sa definovaním skoro rovnomernej konvergencie pre intuitionistické fuzzy pozorovateľné a dokázali sme variáciu Ergovovovej vety. Skúmali sme súvis medzi skoro rovnomernou konvergenciou intuitionistických fuzzy pozorovateľných a náhodných premenných. Takisto sme sformulovali skoro rovnomernú konvergenciu pre MV-algebru a D-poset intuitionistických fuzzy množín.

1. ČUNDERLÍKOVÁ, Katarína. On Another Type of Convergence for Intuitionistic Fuzzy observables. In Mathematics, 2024, vol. 12, iss. 1, art. no. 127. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR) ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12010127   
   
2. ČUNDERLÍKOVÁ, Katarína. A note about almost uniform convergence on D-poset of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2024, vol. 30, no. 1, p. 56-65. ISSN 1310-4926. Dostupné na: https://doi.org/10.7546/nifs.2024.30.1.56-65   
   
3. ČUNDERLÍKOVÁ, Katarína. Almost uniformly convergence on MV-algebra of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2023, vol. 29, no. 4, pp. 335-342. ISSN 1310-4926. Dostupné na: https://doi.org/10.7546/nifs.2023.29.4.335-342   
   
   
**2.) Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov** *(Qualitative properties and oscillations of differential equations and dynamical systems)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2024 / 31.12.2027 |
| **Evidenčné číslo projektu:** | 2/0062/24 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 7267 € |

*Dosiahnuté výsledky:*   
Frakcionálne diferenciálne rovnice s impulzami sú študované v prácach [7,12].   
   
Problém vetra v atmosférickej vrstve Ekmana a príbuzné úlohy prúdenia sú študované v článkoch [5,15].   
   
Riaditeľnosť a pozorovateľnosť kvaterniónových impulzívnych diferenciálnych rovníc sa študuje v článku [4].   
   
Frakcionálne nerovnosti a identity sú študované v prácach [1,10].   
   
V [8,9,14] študujeme existenciu heteroklinicky asymptotických riešení pre nespojité diferenciálne rovnice s pomaly sa meniacimi koeficientmi.   
   
V práci [17] sa riešia určité typy nelineárnych diferenčných rovníc.   
   
[1] ALI, Muhammad Aamir - FEČKAN, Michal - PROMSAKON, Chanon - SITTHIWIRATTHAM, Thanin. A new Approach of Generalized Fractional Integrals in Multiplicative Calculus and Related Hermite–Hadamard-Type Inequalities with Applications. In Mathematica Slovaca, 2024, vol. 74, no. 6, p. 1445-1456. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0105   
   
[2] MEDVEĎ, Milan - POSPÍŠIL, Michal - BRESTOVANSKÁ, Eva. A New Nonlinear Integral Inequality with a Tempered ?–Hilfer Fractional Integral and Its Application to a Class of Tempered ?–Caputo Fractional Differential Equations. In Axioms, 2024, vol. 13, no. 5, art. no. 301. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13050301   
   
[3] FEKETE, Gusztav\*\* - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585   
   
[4] SUO, Leping - FEČKAN, Michal - WANG, JinRong\*\*. Controllability and observability results for quaternion-valued impulsive differential equations. In Rocky Mountain Journal of Mathematics, 2024, vol. 54, no. 4, p. 1175-1211. ISSN 0035-7596. Dostupné na: https://doi.org/10.1216/rmj.2024.54.1175   
   
[5] FEČKAN, Michal - LI, Shan - WANG, JinRong. Discontinuous differential equation for modelling the Antarctic Circumpolar Current. In COMMUNICATIONS IN ANALYSIS AND MECHANICS, 2024, vol. 16, iss. 4, p. 836-857. ISSN 2836-3310. Dostupné na: https://doi.org/10.3934/cam.2024036   
   
[6] POSPÍŠIL, Michal - POSPÍŠILOVÁ-ŠKRIPKOVÁ, Lucia. Existence Results for Differential Equations with Tempered ?–Caputo Fractional Derivatives. In Axioms, 2024, vol.13, no. 10, art. no. 680. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13100680   
   
  
[7] FEČKAN, Michal - DANCA, Marius-F. - CHEN, Guanrong. Fractional Differential Equations with Impulsive Effects. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 500. ISSN 2504-3110. Dostupné na: https://doi.org/10.3390/fractalfract8090500   
   
[8] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations. In Journal of differential equations, 2024, vol. 400, p. 314-375. ISSN 0022-0396. Dostupné na: https://doi.org/10.1016/j.jde.2024.04.022   
   
[9] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 27, p. 1-30. ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.27   
   
[10] ALI, Muhammad Aamir - LIU, Wei\*\* - FURUICHI, Shigeru - FEČKAN, Michal\*\*. Improved Hermite-Hadamard Inequality Bounds for Riemann-Liouville Fractional Integrals via Jensen´s Inequality. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 547. ISSN 2504-3110. Dostupné na: https://doi.org/10.3390/fractalfract8090547   
   
[11] JADLOVSKÁ, Irena - CHATZARAKIS, George E.\*\* - TUNC, Ercan. Kneser-type oscillation theorems for second-order functional differential equations with unbounded neutral coefficients. In Mathematica Slovaca, 2024, vol. 74, no. 3, s. 637-664. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0049   
   
[12] DANCA, Marius-F.\*\* - FEČKAN, Michal. Memory Principle of the MATLAB Code for Lyapunov Exponents of Fractional-Order. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 12, art. nr. 2450156, p. 1-11. ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424501566   
   
[13] HASIL, Petr - POSPÍŠIL, Michal\*\* - POSPÍŠILOVÁ ŠKRIPKOVÁ, Lucia - VESELÝ, Michal. Note on oscillation of neutral differential equations with multiple delays. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 39, p. 1-18. ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.39   
   
[14] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. On Existence of Heteroclinic Connections in Discontinuous Kurland-Levi Differential Equations with Slowly Varying Coefficients. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 16, art. nr. 2450208, 33 p. ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424502080   
   
[15] YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Study of nonlinear trapped lee waves in the modified ?-plane approximation. In Physics of Fluids, 2024, vol. 36, no. 8, art. nr. 086623. ISSN 1070-6631. Dostupné na: https://doi.org/10.1063/5.0228355   
   
[16] LESHCHUK, S. - DILNA, Natália - GROD, I. - RADCHENKO, O. - HNOIOVA, T. The implementation of STE(A)M education through Scratch projects. In Journal of Physics: Conference Series : ICon-MaSTEd 2024 - XVI International Conference on Mathematics, Science and Technology Education, 2024, vol. 2871, art. nr. 012018, 15 p. ISSN 1742-6588. Dostupné na: https://doi.org/10.1088/1742-6596/2871/1/012018   
   
[17] KAOUACHE, Smail - FEČKAN, Michal - HALIM, Yacine - KHELIFA, Amira. Theoretical analysis of higher-order system of difference equations with generalized balancing numbers. In Mathematica Slovaca, 2024, vol. 74, no. 3, p. 691-702. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0052   
[18] DILNA, Natália\*\* - FEKETE, Gusztáv - LANGEROVÁ, Martina - TÓTH, Balázs. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Differential Equations with Deviating Arguments. In Mathematics, 2024, vol. 12, no. 21, art. nr. 3418. ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12213418   
   
[19] DILNA, Natália - LANGEROVÁ, Martina. Ulam-Hyers and generalized Ulam-Hyers stability of fractional functional integro-differential equations. In IFAC-PapersOnLine, 2024, vol. 58, no. 12, pp. 280-285. ISSN 2405-8963. Dostupné na: https://doi.org/10.1016/j.ifacol.2024.08.203   
   
**3.) Topologické štruktúry na priestoroch funkcií**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2024 |
| **Evidenčné číslo projektu:** | VEGA 2/0048/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 4432 € |

*Dosiahnuté výsledky:*   
1. Ľ. Holá, D. Holý, Baire 1 functions and the topology of uniform convergence on compacta, Mathematics, 2024, 12 1494

2. V našom článku Ľubica Holá, László Zsilinszky, On a characterization of complete metrizability of the Hausdorff metric topology, je ukázané za predpokladu hypotézy kontinua, že topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X\*\X,d\*) je separabilný, kde (X\*,d\*) je zúplnenie priestoru (X,d).

**4.) Modelovanie neklasických javov a neurčitosti** *(Modeling of Non-Classical Events and Uncertainty)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2024 / 31.12.2027 |
| **Evidenčné číslo projektu:** | VEGA 2/0128/24 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 13062 € |

*Dosiahnuté výsledky:*   
Prijaté články:   
   
[1] KALAFUT, Juraj - MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\*. Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum. In Information Sciences, 2025, vol. 690, art. nr. 121573. ISSN 0020-0255. Dostupné na: https://doi.org/10.1016/j.ins.2024.121573   
   
**5.) Automaty a formálne jazyky: popisná a výpočtová zložitosť** *(Automata and formal languages: descriptional and computational complexity)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2026 |
| **Evidenčné číslo projektu:** | VEGA 2/0096/23 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 5428 € |

*Dosiahnuté výsledky:*   
[1] HOSPODÁR, Michal\*\* - OLEJÁR, Viktor - ŠEBEJ, Juraj. Decision Problems for Subregular Classes. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 180-194. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-71112-1\_13   
   
[2] JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina\*\* - SHALLIT, Jeffrey. State Complexity of the Minimal Star Basis. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 195-207. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-71112-1\_14   
   
   
**6.) Chromatické problémy a polynómy** *(Chromatic Problems and Polynomials)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Martin Kochol |
| **Trvanie projektu:** | 1.1.2022 / 31.12.2025 |
| **Evidenčné číslo projektu:** | 2/0042/22 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1900 € |

*Dosiahnuté výsledky:*   
KOCHOL, M.: Linear algebraic relations among cardinalities of sets of matroid functions, Mathematics 11(11) (2023) 2570 (ADCA).   
   
**7.) Teoretické vlastnosti a aplikácie špeciálnych tried rozdelení pravdepodobnostiti** *(Theoretical properties and applications of special families of probability distributions)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Mačutek |
| **Trvanie projektu:** | 1.1.2024 / 31.12.2027 |
| **Evidenčné číslo projektu:** | VEGA 2/0120/24 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 7595 € |

*Dosiahnuté výsledky:*   
[1] WIMMER, Gejza - WITKOVSKÝ, Viktor. Calibration model as a straight-line errors-in-variables model. In The Eighth International Conference on Mathematical Statistics PROBASTAT 2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52.   
   
[2] NOGOLOVÁ, Michaela - MAČUTEK, Ján - KUBÁT, Miroslav. What can be heard in the Czech Parliament. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 2.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 673-682. ISBN 978-2-39061-473-9.   
   
[3] XIYNING, Chen - KUBÁT, Miroslav - MAČUTEK, Ján. Directions of Dependency Structures in the Czech National Corpus SYN2020: Application to Genre Classification. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 1.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 219-228. ISBN 978-2-39061-471-5.   
   
[4] Wimmer, G., Witkovský, V., Zůda, J. Kalibrácia dvoch závaží s použitím referenčného závažia. In ROBUST 2024: 23. letná škola JČ(S)MF Bardejov 8-13. IX. 2024 (Zborník abstraktov, Praha, ČR, JČMF, 2024, p. 19)   
   
   
**8.) Efektívne Jacobiho algoritmy pre EVD/SVD rozklady matíc a ich numerické vlastnosti** *(Effective Jacobi algorithms for EVD/SVD matrix decompositions and their numerical properties)*

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| **Zodpovedný riešiteľ:** | Gabriel Okša |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2025 |
| **Evidenčné číslo projektu:** | VEGA 2/0001/23 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3800 € |

*Dosiahnuté výsledky:*   
   
**9.) Nové perspektívy a aplikácie vo výskume agregačných funkcií**

|  |  |
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| **Zodpovedný riešiteľ:** | Jozef Pócs |
| **Trvanie projektu:** | 1.1.2024 / 31.12.2027 |
| **Evidenčné číslo projektu:** | 2/0104/24 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 7600 € |

*Dosiahnuté výsledky:*   
[1] HALAŠ, Radomír - PÓCS, Jozef. On zero-divisor graphs of infinite posets. In Soft Computing, 2024, vol. 28, p. 12113-12118. ISSN 1432-7643. Dostupné na: https://doi.org/10.1007/s00500-024-09958-8   
[2] HALUŠKOVÁ, Emília. Modular lattice - a short memory of the centenary of the birth of Ján Jakubík. In 22. Konferencia košických matematikov. - Košice, Slovensko : Technická univerzita v Košiciach, 2024, 2024, s. 22-23. ISBN 978-80-553-4666-3. Dostupné na internete: https://jsmf.fberg.tuke.sk/zborniky/Herlany2024BOA.pdf   
   
[3] HALUŠKOVÁ, Emília - SCHWARTZOVÁ, Radka\*\*. On discrete properties of Bernoulli shift. In International Journal of Geometric Methods in Modern Physics, 2024, vol. 21, no. 8, art. nr. 2450160, 14 p. ISSN 0219-8878. Dostupné na: https://doi.org/10.1142/S0219887824501603   
   
[4] JASTRZĘBSKA, Malgorzata - HALUŠKOVÁ, Emília. On Integers in Limit Constructions of Algebraic Structures. In Computer Algebra Systems in Teaching and Research 2024 : Volume XIII. - Siedlce, Poland : University of Siedlce, 2024, 2024, vol. 13, p. 107-118. ISBN 978-83-68355-03-1.   
   
[5] HALUŠKOVÁ, Emília. On discrete properties of continuous monotone functions. In Miskolc Mathematical Notes, 2024, vol. 25, no. 2, p. 699-712. ISSN 1787-2405. Dostupné na: https://doi.org/10.18514/MMN.2024.4459   
   
**10.) Teória čísel a jej aplikácie** *(Number theory and its applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Oto Strauch |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2026 |
| **Evidenčné číslo projektu:** | VEGA 2/0119/23 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 6699 € |

*Dosiahnuté výsledky:*   
[1] FEKETE, Gusztav\*\* - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585   
   
**11.) Vplyv materiálov na akustické vlastnosti historických jendomanuálových orgánov na území Slovenska** *(Influence of materials on acoustic properties of historical single-manual pipe organs in Slovakia)*

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| **Zodpovedný riešiteľ:** | Andrej Štafura |
| **Zodpovedný riešiteľ v organizácii SAV:** | Ján Haluška |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2026 |
| **Evidenčné číslo projektu:** | VEGA 2/0134/23 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav materiálov a mechaniky strojov SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
[1] HALUŠKA, Ján. Sound linear variety of normed principal mensure. In ACOUSTICS 2024 High Tatra : Book of Extended Abstracts. - Technical University in Zvolen, Slovak University of Technology in Bratislava, 2024, p. 43. ISBN 978-80-228-3419-3. Dostupné na internete: https://acoustics.sk/dokumenty/Book-Extended-Abstracts-ACOUSTICS-2024-High-Tatras.pdf   
   
**12.) Klasifikácia ansámblami z neurónových sietí** *( Classification using ensembles of neural networks)*

|  |  |
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| **Zodpovedný riešiteľ:** | Ondrej Šuch |
| **Trvanie projektu:** | 1.1.2022 / 31.12.2025 |
| **Evidenčné číslo projektu:** | 2/0172/22 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1138 € |

*Dosiahnuté výsledky:*   
   
**13.) Pokročilé prístupy k agregácii dát a ich aplikácie**  *(Advanced approaches to data aggregation and applications )*

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| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.1.2023 / 31.12.2026 |
| **Evidenčné číslo projektu:** | VEGA 1/0036/23 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Stavebná fakulta, Slovenská technická univerzita v Bratislave |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 2088 € |

*Dosiahnuté výsledky:*   
[1] MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Representation of non-commutative, idempotent, associative functions by pair-orders. In Fuzzy Sets and Systems, 2024, vol. 475, art. nr. 108759. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2023.108759   
   
[2] MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - HOLČAPEK, Michal. Commutative, associative and monotone functions on horizontal sum of chains. In Fuzzy Sets and Systems, 2024, vol. 479, art. nr. 108843. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/   
   
[3] MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most single point incomparable with the neutral element: Part I. International Journal of General Systems, 1–19. https://doi.org/10.1080/03081079.2024.2375441   
   
[4] MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., & WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most a single point incomparable with the neutral element: Part II. International Journal of General Systems, 1–34. https://doi.org/10.1080/03081079.2024.2375437   
[5] KALAFUT, Juraj - MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\*. Decomposition of   
pseudo-uninorms with continuous underlying functions via ordinal sum. In Information Sciences, 2025, vol. 690, art. nr. 121573. ISSN 0020-0255. Dostupné na:   
https://doi.org/10.1016/j.ins.2024.121573   
   
**Programy: APVV**

**14.) Pravdepodobnostné, algebrické a kvantovo-mechanické metódy určovania neurčitosti** *(Probabilistic, Algebraic and Quantum Mechanical Methods of Uncertainty Determination)*

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| **Zodpovedný riešiteľ:** | Anatolij Dvurečenskij |
| **Trvanie projektu:** | 1.7.2021 / 30.6.2025 |
| **Evidenčné číslo projektu:** | APVV-20-0069 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 27346 € |

*Dosiahnuté výsledky:*   
1.A. Dvurečenskij, O. Zahiri, Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots, J. Appl. Logic IfCoLog Journal of Logics and their Applications 11 (2024), 499-527.   
   
2.A. Dvurečenskij, O. Zahiri, Representation and embedding of pseudo MV-algebras with square roots II. Closures, J. Appl. Logic IfCoLog Journal of Logics and their Applications 11 (2024), 529--563.   
   
3.A. Dvurečenskij, O. Zahiri, M. Shenavaei, R. A. Borzooei, n-roots on MV-algebras, Fuzzy Sets and Systems 484 (2024), Art. Num. 108930   
https://doi.org/10.1016/j.fss.2024.108930   
   
4.A. Dvurečenskij, O. Zahiri, MV-algebras and their corresponding Bézout domains, Comm. Algebra 52 (2024), 5165--5179. https://doi.org/10.1080/00927872.2024.2367165   
   
5.F. Hiai, A. Jenčová: α-z-Rényi divergences in von Neumann algebras: Data processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics 405 (2024), art. nr. 271.   
  
6.A. Jenčová: Recoverability of quantum channels via hypothesis testing, Letters in Mathematical Physics, 114 (2024), art. nr. 31.   
  
7.A. Jenčová: The exponential Orlicz space in quantum information geometry, Information Geometry, 7 (2024), 377-395.   
  
8.A. Mesiarová-Zemánková, M. Holčapek, Commutative, associative and monotone functions on horizontal sum of chains, Fuzzy Sets and Systems 479 (2024), 108843.   
  
9.A. Mesiarová-Zemánková, Representation of non-commutative, idempotent, associative functions by pair-orders, Fuzzy Sets and Systems 475 (2024), 108759.   
  
10.A. Mesiarová-Zemánková, Uninorms internal on one or more non-trivial cuts, Information Sciences 653 (2024), 119793.   
  
11.Y. Su, Z. Wang, A. Mesiarová-Zemánková, R. Mesiar, Characterizing three classes of idempotent uninorms on a bounded lattice, Iranian Journal of Fuzzy Systems 20(5), (2023), 109-120.   
  
12.R. Halaš, J. Pócs: On zero-divisor graphs of infinite posets, Soft Computing (2024) 28:12113–12118.   
  
13.Antoni Ľ., Eliaš P., Guniš J., Kotlárová D., Krajči S., Krídlo O., Sokol P., Šnajder Ľ., Bimorphisms and attribute implications in heterogeneous formal contexts, International Journal of Approximate Reasoning 172, (2024), 109245. https://doi.org/10.1016/j.ijar.2024.109245   
   
14.Pitka T., Bucko J., Krajči S., Krídlo O., Guniš J., Šnajder Ľ., Antoni Ľ., Eliaš P., Time analysis of online consumer behavior by decision trees, GUHA association rules, and formal concept analysis, Journal of Marketing Analytics (2024). https://doi.org/10.1057/s41270-023-00274-y   
   
15.Monteiro, A.S., Santiago, R., Papčo, M. et al. On conditional monotonicities of interval-valued functions. Comp. Appl. Math. 43, 200 (2024). https://doi.org/10.1007/s40314-024-02715-5   
   
16. MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most single point incomparable with the neutral element: Part I. International Journal of General Systems, 1–19. https://doi.org/10.1080/03081079.2024.2375441   
   
17. MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., & WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most a single point incomparable with the neutral element: Part II. International Journal of General Systems, 1–34. https://doi.org/10.1080/03081079.2024.2375437   
   
**15.) Topologické štruktúry a priestory funkcií** *(Topological structures and spaces of functions)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.7.2021 / 30.6.2025 |
| **Evidenčné číslo projektu:** | APVV-20-0045 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 11250 € |

*Dosiahnuté výsledky:*   
1. Ľ. Holá, D. Holý, Baire 1 functions and the topology of uniform convergence on compacta, Mathematics, 2024, 12 1494

2. V našom článku Ľubica Holá, Lászlo Zsilinsszky, On a characterization of complete metrizability of the Hausdorff metric topology, je ukázané za predpokladu hypotézy kontinua, že topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X\*\X,d\*) je separabilný, kde (X\*,d\*) je zúplnenie priestoru (X,d).

**16.) Výnimočné štruktúry v diskrétnej matematike** *(Exceptional structures in discrete mathematics)*

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| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.7.2020 / 30.6.2024 |
| **Evidenčné číslo projektu:** | APVV-19-0308 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FMFI UK |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | APVV: 1800 € |

*Dosiahnuté výsledky:*   
[1] KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin\*\*. Cubic graphs with colouring defect 3. In The electronic journal of combinatorics, 2024, vol. 31, no. 2, art. nr. P2.6. ISSN 1077-8926. Dostupné na: https://doi.org/10.37236/12333   
   
[2] KARABÁŠ, Ján - NEDELA, Roman - SKYVOVÁ, Mária. Computing equivalence classes of finite group actions on orientable surfaces. In Journal of Pure and Applied Algebra, 2024, vol. 228, no. 6, art. nr. 107578. ISSN 0022-4049. Dostupné na: https://doi.org/10.1016/j.jpaa.2023.107578   
   
[3] NEDELA, Roman - SEIFRTOVÁ, Michaela - ŠKOVIERA, Martin\*\*. Decycling cubic graphs. In Discrete Mathematics, 2024, vol. 347, art. nr. 114039. ISSN 0012-365X. Dostupné na: https://doi.org/10.1016/J.DISC.2024.1 114039   
   
[4] KAWARABAYASHI, Ken-Ichi - MOHAR, Bojan - NEDELA, Roman - ZEMAN, Peter. Automorphisms and Isomorphisms of Maps in Linear Time. In ACM Transactions on Algorithms, 2024, vol. 21, no. 1, art. nr. 6, p. 1-32. ISSN 1549-6325. Dostupné na: https://doi.org/10.1145/3686798   
   
   
**17.) Výnimočné štruktúry v diskrétnej matematike: vlastnosti, konštrukcie a ich klasifikácie** *(Exceptional Structures in Descrete Mathematics: Properties, Constructions and Classifications)*

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| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.9.2024 / 30.6.2028 |
| **Evidenčné číslo projektu:** | APVV-23-0076 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fakulta matematiky, fyziky a informatiky, Univerzita Komenského |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 1700 € |

*Dosiahnuté výsledky:*

**18.) Ontologická reprezentácia pre bezpečnosť informačných systémov** *(Ontological representation for security of information systems)*

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| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.7.2020 / 30.6.2024 |
| **Evidenčné číslo projektu:** | APVV-19-0220 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FEI STU Bratislava |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | APVV: 2537 € |

*Dosiahnuté výsledky:*   
[1] FEKETE, Gusztav\*\* - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585   
   
**19.) Efektívne výpočtové metódy pre charakterizáciu materiálov v nanomierke** *(Efficient computation methods for nanoscale material characterization)*

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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2022 / 30.6.2025 |
| **Evidenčné číslo projektu:** | SK-CZ-RD-21-0109 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 8499 € |

*Dosiahnuté výsledky:*   
[1] CHARVÁTOVÁ CAMPBELL, A. - ŠLESINGER, R. - KLAPETEK, P. -   
CHVOSTEKOVÁ, Martina - HAJZOKOVÁ, Laura - WITKOVSKÝ, Viktor -   
WIMMER, Gejza. Locally best linear unbiased estimation of regression curves   
specified by nonlinear constraints on the model parameters. In Advanced   
Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur :   
World Scientific Publishing, 2024, p. 143-150. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674\_0012   
   
[2] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in   
the straight-line calibration. In Advanced Mathematical and Computational Tools in   
Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p.   
330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674\_0030   
   
[3] CHARVÁTOVÁ CAMPBELL, A. - KLAPETEK, P. - ŠLESINGER, R. - WITKOVSKÝ, V. - WIMMER, G. Fitting the AFM force–distance curves the correct way. In Measurement Science and Technology 36 (2025) 015022 (8pp), https://doi.org/10.1088/1361-6501/ad8b60

[4] WIMMER, G. - WITKOVSKÝ, V. Calibration model as a straight-line   
errors-in-variables model. In The Eighth International Conference on Mathematical   
Statistics PROBASTAT 2024, Smolenice 20-24.V.2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52.   
   
[5] WIMMER, Gejza - WITKOVSKÝ, Viktor - ZŮDA, J. Kalibrácia dvoch závaží s   
použitím referenčného závažia. In ROBUST 2024: Sborník abstraktů. - Praha, ČR :   
JČMF, 2024, p. 19 ROBUST 2024, 23. letní škola JČ(S)MF Bardějov 8. - 13. 9. 2024   
   
[6] Charvátová-Campbell A., Šlesinger R., Witkovský V., Wimmer G., Buršíková V.: Applications of Iterated Linearization for Non-Linear Errors-in-Variable Regression to Metrological Data, XXIV IMEKO World Congress “Think Metrology”, Hamburg, Germany, August 26-29, 2024   
prijaté do Measurement: Sensors   
   
[7] Witkovský V., Wimmer G., Charvátová-Campbell A., Klapetek P., Šlesinger R.: Estimation of Function Parameters through Iterated Linearization for Nonlinear Errors-in-Variable Regression with Correlated Variables, XXIV IMEKO World Congress “Think Metrology”, Hamburg, Germany, August 26-29, 2024   
prijaté do Measurement: Sensors   
   
[8] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress “Think Metrology” , Hamburg, Germany, August 26-29, 2024,   
prijaté do Measurement: Sensors   
   
   
**20.) Výskum možnosti digitálnej transformácie kontinuálnych dopravných systémov** *(Research the possibility of digital transformation of continuous transport systems)*

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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2022 / 30.6.2026 |
| **Evidenčné číslo projektu:** | APVV-21-0195 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 3653 € |

*Dosiahnuté výsledky:*   
[1] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in   
the straight-line calibration. In Advanced Mathematical and Computational Tools in   
Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p.   
330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674\_0030   
   
[2] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress “Think Metrology” , Hamburg, Germany, August 26-29, 2024,   
prijaté do Measurement: Sensors

**21.) Pokročilé matematické a štatistické metódy pre meranie a metrológiu** *(Advanced mathematical and statistical methods for measument and metrology )*

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| **Zodpovedný riešiteľ:** | Viktor Witkovský |
| **Zodpovedný riešiteľ v organizácii SAV:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2022 / 31.12.2025 |
| **Evidenčné číslo projektu:** | APVV-21-0216 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav merania SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 15619 € |

*Dosiahnuté výsledky:*   
[1] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in   
the straight-line calibration. In Advanced Mathematical and Computational Tools in   
Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p.   
330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674\_0030   
   
[2] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress “Think Metrology” , Hamburg, Germany, August 26-29, 2024,   
prijaté do Measurement: Sensors   
   
[3] WIMMER, G. - WITKOVSKÝ, V. Calibration model as a straight-line   
errors-in-variables model. In The Eighth International Conference on Mathematical   
Statistics PROBASTAT 2024: Abstracts. - Bratislava, Slovakia : Institute of   
Measurement Science, SAS, 2024, p. 52.   
   
[4] WIMMER, Gejza - WITKOVSKÝ, Viktor - ZŮDA, J. Kalibrácia dvoch závaží s   
použitím referenčného závažia. In ROBUST 2024: Sborník abstraktů. - Praha, ČR :   
JČMF, 2024, p. 19 ROBUST 2024, 23. letní škola JČ(S)MF Bardějov 8. - 13. 9. 2024   
   
   
**22.) Navrhovanie kvantových štruktúr vyššieho rádu** *(Designing quantum higher order structures)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Mário Ziman |
| **Zodpovedný riešiteľ v organizácii SAV:** | Anna Jenčová |
| **Trvanie projektu:** | 1.7.2023 / 30.6.2026 |
| **Evidenčné číslo projektu:** | APVV-22-0570 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fyzikálny ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 20395 € |

*Dosiahnuté výsledky:*   
**Programy: ŠPVV**

**23.) Príprava Národného programu kvantových technológií SR**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.1.2018 / |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Slovenská národná výskumná platforma kvantových technológií QUTE |
| **Počet spoluriešiteľských inštitúcií:** | 6 - Slovensko: 6 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
   
   
**Programy: Vnútroústavné**

**24.) Model pre optimalizáciu prepravy zemného plynu** *(The optimization model of natural gas transportation)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Tibor Žáčik |
| **Trvanie projektu:** | 1.1.1999 / |
| **Evidenčné číslo projektu:** | 1239 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
   
   
**Programy: SASPRO**

**25.) Relations between EMV-algebras, pseudo MV-algebras and commutative and noncommutative Bézout domains** *(Relations between EMV-algebras, pseudo MV-algebras and commutative and noncommutative Bézout domains)*

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| **Zodpovedný riešiteľ:** | Omid Zahiri |
| **Trvanie projektu:** | 1.8.2022 / 31.7.2025 |
| **Evidenčné číslo projektu:** | 1048/01/01 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | SASPRO: 54347 € |

*Dosiahnuté výsledky:*   
[1] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. MV-algebras and their corresponding Bézout domains. In Communications in Algebra, 2024, vol. 52, no. 12, p. 5165-5179. ISSN 0092-7872. Dostupné na: https://doi.org/10.1080/00927872.2024.2367165   
   
[2] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid - SHENAVAEI, M. - BORZOOEI, R.A.\*\*. n-roots on MV-algebras. In Fuzzy Sets and Systems, 2024, vol. 484, art. no. 108930. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2024.108930   
   
[3] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots II. Closures. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 529-563. ISSN 2055-3706. Dostupné na internete: https://www.collegepublications.co.uk/ifcolog/?00066   
   
[4] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots I. Strict Square Roots. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 499-527. ISSN 2055-3706. Dostupné na internete: https://www.collegepublications.co.uk/ifcolog/?00066   
   
   
**Programy: Plán obnovy EÚ**

**26.) Kvalitatívna teória dynamických rovníc na časových škálach** *(Qualitative Theory of Dynamic Equations on Time Scales)*

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| **Zodpovedný riešiteľ:** | Ahmed Ibrahim Mohamed Mahmoud Abo Saied |
| **Trvanie projektu:** | 1.4.2024 / 30.6.2026 |
| **Evidenčné číslo projektu:** | 09I03-03-V02-00040 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | Vláda SR: 12407 € |

*Dosiahnuté výsledky:*   
[1] SAIED, Ahmed I. A study on reversed dynamic inequalities of Hilbert-type on time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art.nr. 75. ISSN 1029-242X. Dostupné na: https://doi.org/10.1186/s13660-024-03091-8   
   
[2] ZAKARYA, M. - ALNEMER, Ghada - SAIED, Ahmed I. - REZK, H. M.\*\*. Novel generalized inequalities involving a general Hardy operator with multiple variables and general kernels on time scales. In AIMS Mathematics, 2024, vol. 9, no. 8, p. 21414-21432. ISSN 2473-6988. Dostupné na: https://doi.org/10.3934/math.20241040   
   
[3] ZAKARYA, Mohammed - SAIED, Ahmed I. - AL-THAQFAN, Amirah Ayidh I - ALI, Maha - REZK, Haytham M.\*\*. On Some New Dynamic Hilbert-Type Inequalities across Time Scales. In Axioms, 2024, vol. 13, no. 7, art. no. 475. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13070475   
   
[4] AL-OUSHOUSH, Nizar Kh.\*\* - AZAR, Laith E. - AWWAD, Essam - KRNIC, Mario - SAIED, Ahmed I. Some new dynamic inequalities for B-monotone functions with respect to time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art. nr. 122. ISSN 1029-242X. Dostupné na: https://doi.org/10.1186/s13660-024-03202-5   
   
[5] AWWAD, Essam\*\* - SAIED, Ahmed I. Some weighted dynamic inequalities of Hardy type with kernels on time scales nabla calculus. In Journal of Mathematical Inequalities, 2024, vol. 18, no. 2, p. 457-475. ISSN 1846-579X. Dostupné na: https://doi.org/10.7153/jmi-2024-18-25   
   
**27.) Funkcie fuzzy implikácií a ich aplikácie** *(Fuzzy Implication Functions and Their Applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Raquel Fernández-Peralta |
| **Trvanie projektu:** | 1.9.2024 / 31.8.2026 |
| **Evidenčné číslo projektu:** | 09I03-03-V04-00557 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | Vláda SR: 24718 € |

*Dosiahnuté výsledky:*   
   
   
**28.) Matematické modely zákonov lingvistiky** *(Mathematical Models of Linguistic Laws)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Mačutek |
| **Trvanie projektu:** | 1.9.2024 / 31.8.2026 |
| **Evidenčné číslo projektu:** | 09I03-03-V04-00748 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | Vláda SR: 36586 € |

*Dosiahnuté výsledky:*   
[1] KUBÁT, Miroslav\*\* - MAČUTEK, Ján - ČECH, Radek - NOGOLOVÁ, Michaela. Automatic Genre Classification of Czech Texts Based on Syntactic Functions. In New Frontiers in Textual Data Analysis. Eds. Giuseppe Giordano, Michelangelo Misuraca. - Cham, Switzerland : Springer, 2024, p. 163-172. ISBN 978-3-031-55916-7. ISSN 1431-8814. Dostupné na: https://doi.org/10.1007/978-3-031-55917-4\_13   
   
[2] ČECH, Radek\*\* - KOSEK, Pavel - NAVRÁTILOVÁ, Olga - MAČUTEK, Ján. Development of the word order of the reflexive enclitic sě/se dependent on a finite verb in Czech translations of the Gospel of Matthew from the 14th to the 21st century. In Journal of Historical Linquistic, 2024, vol. 14, iss. 3, pp. 385-426. ISSN 2210-2116. Dostupné na: https://doi.org/10.1075/jhl.21029.cec   
   
[3] XIYNING, Chen - KUBÁT, Miroslav - MAČUTEK, Ján. Directions of Dependency Structures in the Czech National Corpus SYN2020: Application to Genre Classification. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 1.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 219-228. ISBN 978-2-39061-471-5.   
[4] NOGOLOVÁ, Michaela - MAČUTEK, Ján - KUBÁT, Miroslav. What can be heard in the Czech Parliament. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 2.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 673-682. ISBN 978-2-39061-473-9.   
   
[5] KOŠČ, Ivan - STOLÁRIK, Peter - KOŠČOVÁ, Michaela - MOKRÁ, Jana. Moderné technické riešenia riadenia Schengenských hraníc. In Dvadsať rokov členstva Slovenskej republiky v Európskej únii. Prínosy, výzvy, očakávania. : Zborník príspevkov. - Bratislava : Akadémia Policajného zboru, 2024, 2024, s. 213-222. ISBN 978-80-8293-035-4.   
   
[6] KOŠČ, Ivan - KOŠČOVÁ, Michaela - STOLÁRIK, Peter - MOKRÁ, Jana. Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center). In Határrendészeti tanulmányok, 2024, vol. 21, no. 4, p. 105-117. ISSN 2061-3997.   
   
[7] KOŠČ, Ivan - KOŠČOVÁ, Michaela. Štatistická analýza textu pre potreby policajnej praxe. In Quo vadis Schengen? : Zborník. - Bratislava : Akadémia Policajného zboru, 2023, 2023, s. 41-57. ISBN 978-80-8054-994-7.   
   
   
 ***Príloha A-3***

**Publikačná činnosť organizácie**

*Príloha je generovaná z ARL.*

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| AAA01 | LÜCK, Wolfgang - MACKO, Tibor. Surgery Theory : Foundations. With contributions by Diarmuid Crowley. Cham : Springer Nature Switzerland AG, 2024. 956 p. Grundlehren der mathematischen Wissenschaften. A Series of Comprehensive Studies in Mathematics, Volume 362. Dostupné na: <https://doi.org/10.1007/978-3-031-56334-8>. ISBN 978-3-031-56333-1. ISSN 0072-7830 |

**ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADCA01 | AL-OUSHOUSH, Nizar Kh.\*\* - AZAR, Laith E. - AWWAD, Essam - KRNIC, Mario - SAIED, Ahmed I.. Some new dynamic inequalities for B-monotone functions with respect to time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art. nr. 122. (2023: 1.5 - IF, Q1 - JCR, 0.448 - SJR, Q2 - SJR). ISSN 1029-242X. Dostupné na: <https://doi.org/10.1186/s13660-024-03202-5> |
| ADCA02 | ALI, Muhammad Aamir - LIU, Wei\*\* - FURUICHI, Shigeru - FEČKAN, Michal\*\*. Improved Hermite-Hadamard Inequality Bounds for Riemann-Liouville Fractional Integrals via Jensen´s Inequality. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 547. (2023: 3.6 - IF, Q1 - JCR, 0.645 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract8090547> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA03 | ANTONI, Ľubomír\*\* - ELIAŠ, Peter - GUNIŠ, Ján - KOTLÁROVÁ, Dominika - KRAJČI, Stanislav - KRÍDLO, Ondrej - SOKOL, Pavol - ŠNAJDER, Ľubomír. Bimorphisms and attribute implications in heterogeneous formal contexts. In International Journal of Approximate Reasoning, 2024, vol. 172, art. nr. 109245. (2023: 3.2 - IF, Q2 - JCR, 0.877 - SJR, Q1 - SJR). ISSN 0888-613X. Dostupné na: <https://doi.org/10.1016/j.ijar.2024.109245> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADCA04 | AWWAD, Essam\*\* - SAIED, Ahmed I.. Some weighted dynamic inequalities of Hardy type with kernels on time scales nabla calculus. In Journal of Mathematical Inequalities, 2024, vol. 18, no. 2, p. 457-475. (2023: 1.1 - IF, Q1 - JCR, 0.426 - SJR, Q3 - SJR). ISSN 1846-579X. Dostupné na: <https://doi.org/10.7153/jmi-2024-18-25> |
| ADCA05 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations. In Journal of differential equations, 2024, vol. 400, p. 314-375. (2023: 2.4 - IF, Q1 - JCR, 2.046 - SJR, Q1 - SJR). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2024.04.022> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA06 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 27, p. 1-30. (2023: 1.1 - IF, Q1 - JCR, 0.478 - SJR, Q2 - SJR). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2024.1.27> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA07 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. On Existence of Heteroclinic Connections in Discontinuous Kurland-Levi Differential Equations with Slowly Varying Coefficients. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 16, art. nr. 2450208, 33 p. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127424502080](https://doi.org/10.1142/s0218127424502080) (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA08 | BATTELLI, Flaviano - FEČKAN, Michal. Periodic Solutions in Slowly Varying Discontinuous Differential Equations: A Non-Generic Case. In Journal of Dynamics and Differential Equations, 2024, vol. 36, pp. 463-496. (2023: 1.4 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-022-10155-0> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA09 | BENEŠ, V. - SVÍTEK, Miroslav - MICHALÍKOVÁ, Alžbeta - MELICHERČÍK, M. Situation model of the transport, transport emissions and meteorological conditions. In Neural network world : international journal on non-standard computing and artificial intelligence, 2024, vol. 34, no. 1, p. 27-36. (2023: 0.7 - IF, Q4 - JCR, 0.251 - SJR, Q4 - SJR). ISSN 1210-0552. Dostupné na: [https://doi.org/10.14311/NNW.2024.34.002](https://doi.org/10.14311/nnw.2024.34.002) |
| ADCA10 | ČUNDERLÍKOVÁ, Katarína. On Another Type of Convergence for Intuitionistic Fuzzy Observables. In Mathematics, 2024, vol. 12, iss. 1, art. no. 127. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math12010127> (VEGA 2/0122/23 : Viachodnotové modely neurčitosti) |
| ADCA11 | DANCA, Marius-F.\*\* - FEČKAN, Michal. Memory Principle of the MATLAB Code for Lyapunov Exponents of Fractional-Order. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 12, art. nr. 2450156, p. 1-11. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127424501566](https://doi.org/10.1142/s0218127424501566) (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA12 | DILNA, Natália\*\* - FEKETE, Gusztáv - LANGEROVÁ, Martina - TÓTH, Balázs. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Differential Equations with Deviating Arguments. In Mathematics, 2024, vol. 12, no. 21, art. nr. 3418. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math12213418> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA13 | DOBREV, Stefan - NARAYANAN, Lata - OPATRNY, Jaroslav - PANKRATOV, Denis. Exploration of High-Dimensional Grids by Finite State Machines. In Algorithmica, 2024, vol. 86, no. 5, p. 1700-1729. (2023: 0.9 - IF, Q3 - JCR, 0.905 - SJR, Q1 - SJR). ISSN 0178-4617. Dostupné na: <https://doi.org/10.1007/s00453-024-01207-6> |
| ADCA14 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. MV-algebras and their corresponding Bézout domains. In Communications in Algebra, 2024, vol. 52, no. 12, p. 5165-5179. (2023: 0.6 - IF, Q3 - JCR, 0.619 - SJR, Q2 - SJR). ISSN 0092-7872. Dostupné na: <https://doi.org/10.1080/00927872.2024.2367165> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
| ADCA15 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid - SHENAVAEI, M. - BORZOOEI, R.A.\*\*. n-roots on MV-algebras. In Fuzzy Sets and Systems, 2024, vol. 484, art. no. 108930. (2023: 3.2 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2024.108930> (APVV-20-0069 :  Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
| ADCA16 | FEČKAN, Michal - DANCA, Marius-F. - CHEN, Guanrong. Fractional Differential Equations with Impulsive Effects. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 500. (2023: 3.6 - IF, Q1 - JCR, 0.645 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract8090500> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA17 | HALAŠ, Radomír - PÓCS, Jozef. On zero-divisor graphs of infinite posets. In Soft Computing, 2024, vol. 28, p. 12113-12118. (2023: 3.1 - IF, Q2 - JCR, 0.81 - SJR, Q2 - SJR). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-024-09958-8> (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA18 | HALUŠKOVÁ, Emília - SCHWARTZOVÁ, Radka\*\*. On discrete properties of Bernoulli shift. In International Journal of Geometric Methods in Modern Physics, 2024, vol. 21, no. 8, art. nr. 2450160, 14 p. (2023: 2.1 - IF, Q2 - JCR, 0.467 - SJR, Q2 - SJR). ISSN 0219-8878. Dostupné na: [https://doi.org/10.1142/S0219887824501603](https://doi.org/10.1142/s0219887824501603) (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií) |
| ADCA19 | HASIL, Petr - POSPÍŠIL, Michal\*\* - POSPÍŠILOVÁ ŠKRIPKOVÁ, Lucia - VESELÝ, Michal. Note on oscillation of neutral differential equations with multiple delays. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 39, p. 1-18. (2023: 1.1 - IF, Q1 - JCR, 0.478 - SJR, Q2 - SJR). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2024.1.39> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA20 | HASIL, Petr - POSPÍŠIL, Michal - ŠIŠOLÁKOVÁ, Jiřina - VESELÝ, Michal\*\*. Oscillation criterion for linear equations with coefficients containing powers of natural logarithm. In Monatshefte für Mathematik, 2024, vol. 203, p. 91-109. (2023: 0.8 - IF, Q2 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-023-01910-6> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA21 | HIAI, Fumio - JENČOVÁ, Anna. α-z-Rényi Divergences in von Neumann Algebras: Data Processing Inequality, Reversibility, and Monotonicity Properties in α, z. In Communications in Mathematical Physics, 2024, vol. 405, art. nr. 271. (2023: 2.2 - IF, Q1 - JCR, 1.612 - SJR, Q1 - SJR). ISSN 0010-3616. Dostupné na: <https://doi.org/10.1007/s00220-024-05124-1> |
| ADCA22 | HOLÁ, Ľubica. Ascoli-Type Theorem for Baire 1 Functions. In Mathematics, 2023, vol. 11, no. 17, art. nr. 3694. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11173694> (Topologické štruktúry a priestory funkcií : APVV-20-0045. VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií) |
| ADCA23 | CHARVÁTOVÁ CAMPBELL, A.\*\* - GERŠLOVÁ, Z. - ŠINDLÁŘ, V. - ŠLESINGER, R. - WIMMER, Gejza. New framework for nanoindentation curve fitting and measurement uncertainty estimation. In Precision Engineering : journal of the international societies for precision engineering and nanotechnology, 2024, vol. 85, p. 166-173. (2023: 3.5 - IF, Q1 - JCR, 0.902 - SJR, Q1 - SJR). ISSN 0141-6359. Dostupné na: <https://doi.org/10.1016/j.precisioneng.2023.10.001> |
| ADCA24 | CHEN, Fei - FEČKAN, Michal - WANG, JinRong. Existence and stability results for a second-order differential equation for the Antarctic circumpolar current. In Monatshefte für Mathematik, 2024, vol. 203, pp. 809-824. (2023: 0.8 - IF, Q2 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 0026-9255.   Dostupné na: <https://doi.org/10.1007/s00605-023-01868-5> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA25 | JENČOVÁ, Anna. Recoverability of quantum channels via hypothesis testing. In Letters in Mathematical Physics, 2024, vol. 114, art. nr. 31. (2023: 1.3 - IF, Q3 - JCR, 0.855 - SJR, Q1 - SJR). ISSN 0377-9017. Dostupné na: <https://doi.org/10.1007/s11005-024-01775-2> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA26 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing\*\*. Global Behavior in a Two-Species Chemotaxis-Competition System with Signal-Dependent Sensitivities and Nonlinear Productions. In Applied Mathematics & Optimization, 2024, vol. 90, art. nr. 11. (2023: 1.6 - IF, Q2 - JCR, 0.916 - SJR, Q1 - SJR). ISSN 0095-4616. Dostupné na: <https://doi.org/10.1007/s00245-024-10137-2> |
| ADCA27 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing\*\*. An Attraction-Repulsion Chemotaxis System: The Roles of Nonlinear Diffusion and Productions. In Acta Applicandae Mathematicae, 2024, vol. 190, art. nr. 5. (2023: 1.2 - IF, Q2 - JCR, 0.789 - SJR, Q2 - SJR). ISSN 0167-8019. Dostupné na: <https://doi.org/10.1007/s10440-024-00641-6> |
| ADCA28 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing. Boundedness and stabilization in a two-species chemotaxis-competition system with signal-dependent sensitivities and indirect signal consumption. In Journal of Mathematical Analysis and Applications, 2024, vol. 540, no. 1, art. nr. 128546. (2023: 1.2 - IF, Q1 - JCR, 0.816 - SJR, Q1 - SJR). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2024.128546> |
| ADCA29 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing\*\*. Global existence in a fully parabolic attraction-repulsion chemotaxis system with singular sensitivities and proliferation. In Journal of differential equations, 2024, vol. 411, p. 227-267. (2023: 2.4 - IF, Q1 - JCR, 2.046 - SJR, Q1 - SJR). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2024.07.005> |
| ADCA30 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing\*\*. Analysis of an SIS reaction-diffusion-chemotaxis epidemic model with gradient-dependent flux limitation and standard incidence. In Discrete and Continuous Dynamical Systems - Series B, 2024, vol. 29, no. 9, p. 3731-3743. (2023: 1.3 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR). ISSN 1531-3492. Dostupné na: <https://doi.org/10.3934/dcdsb.2024021> |
| ADCA31 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing. Combined effects of nonlinear diffusion and gradient-dependent flux limitation on a chemotaxis-haptotaxis model. In Zeitschrift für angewandte Mathematik und Physik, 2024, vol. 75, no. 1, art. no. 4. (2023: 1.7 - IF, Q2 - JCR, 0.931 - SJR, Q1 - SJR). ISSN 0044-2275. Dostupné na: <https://doi.org/10.1007/s00033-023-02134-2> |
| ADCA32 | JIAO, Zhan - JADLOVSKÁ, Irena - LI, Tongxing\*\*. Finite-time blow-up and boundedness in a quasilinear attraction-repulsion chemotaxis system with nonlinear signal productions. In Nonlinear Analysis: Real World Applications, 2024, vol. 77, art. nr. 104023. (2023: 1.8 - IF, Q1 - JCR, 1.163 - SJR, Q1 - SJR). ISSN 1468-1218. Dostupné na: <https://doi.org/10.1016/j.nonrwa.2023.104023> |
| ADCA33 | KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin\*\*. Cubic graphs with colouring defect 3. In The electronic journal of combinatorics, 2024, vol. 31, no. 2, art. nr. P2.6. (2023: 0.7 - IF, Q2 - JCR, 0.893 - SJR, Q1 - SJR). ISSN 1077-8926. Dostupné na: <https://doi.org/10.37236/12333> (APVV-19-0308 : Výnimočné štruktúry v diskrétnej matematike) |
| ADCA34 | KARABÁŠ, Ján - NEDELA, Roman - SKYVOVÁ, Mária. Computing equivalence classes of finite group actions on orientable surfaces. In Journal of Pure and Applied Algebra, 2024, vol. 228, no. 6, art. nr. 107578. (2023: 0.7 - IF, Q2 - JCR, 0.897 - SJR, Q1 - SJR). ISSN 0022-4049. Dostupné na: <https://doi.org/10.1016/j.jpaa.2023.107578> (APVV-19-0308 : Výnimočné štruktúry v diskrétnej matematike. VEGA 2/0078/20 : Grafové invarianty, symetrie a ohodnotenia) |
| ADCA35 | KOCHOL, Martin. Linear Algebraic Relations among Cardinalities of Sets of Matroid Functions. In Mathematics, 2023, vol. 11, no. 11, art. nr. 2570. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11112570> (VEGA 2/0042/22 : Chromatické problémy a polynómy) |
| ADCA36 | MEDVEĎ, Milan - POSPÍŠIL, Michal - BRESTOVANSKÁ, Eva. A New Nonlinear Integral Inequality with a Tempered Ψ–Hilfer Fractional Integral and Its Application to a Class of Tempered Ψ–Caputo Fractional Differential Equations. In Axioms, 2024, vol. 13, no. 5, art. no. 301. (2023: 1.9 - IF, Q1 - JCR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms13050301> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA37 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Representation of non-commutative, idempotent, associative functions by pair-orders. In Fuzzy Sets and Systems, 2024, vol. 475, art. nr. 108759. (2023: 3.2 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108759> (VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA38 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - HOLČAPEK, Michal. Commutative, associative and monotone functions on horizontal sum of chains. In Fuzzy Sets and Systems, 2024, vol. 479, art. nr. 108843. (2023: 3.2 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108843> (VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA39 | POSPÍŠIL, Michal - POSPÍŠILOVÁ-ŠKRIPKOVÁ, Lucia. Existence Results for Differential Equations with Tempered Ψ–Caputo Fractional Derivatives. In Axioms, 2024, vol.13, no. 10, art. no. 680. (2023: 1.9 - IF, Q1 - JCR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms13100680> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA40 | SAIED, Ahmed I.. A study on reversed dynamic inequalities of Hilbert-type on time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art.nr. 75. (2023: 1.5 - IF, Q1 - JCR, 0.448 - SJR, Q2 - SJR). ISSN 1029-242X. Dostupné na: <https://doi.org/10.1186/s13660-024-03091-8> |
| ADCA41 | SUO, Leping - FEČKAN, Michal - WANG, JinRong\*\*. Controllability and observability results for quaternion-valued impulsive differential equations. In Rocky Mountain Journal of Mathematics, 2024, vol. 54, no. 4, p. 1175-1211. (2023: 0.7 - IF, Q2 - JCR, 0.424 - SJR, Q2 - SJR). ISSN 0035-7596. Dostupné na: <https://doi.org/10.1216/rmj.2024.54.1175> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA42 | YANG, Jian - WANG, JinRong\*\* - FEČKAN, Michal. Consensus of nonlinear multiagent systems with mode-dependent delay via stochastic sampled data under Markovian switching topologies. In International Journal of Robust and Nonlinear Contro, 2024, vol. 34, no. 1, p. 222-239. (2023: 3.2 - IF, Q1 - JCR, 1.459 - SJR, Q1 - SJR). ISSN 1049-8923. Dostupné na: <https://doi.org/10.1002/rnc.6968> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA43 | YANG, Maosong - FEČKAN, Michal - WANG, JinRong\*\*. Solution to delayed linear discrete system with constant coefficients and second-order differences and application to iterative learning control. In International Journal of Adaptive Control and Signal Processing, 2024, vol. 38, p. 677-695. (2023: 3.9 - IF, Q2 - JCR, 0.793 - SJR, Q2 - SJR). ISSN 0890-6327. Dostupné na: <https://doi.org/10.1002/acs.3722> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA44 | YANG, Maosong - FEČKAN, Michal - WANG, JinRong\*\*. Ulam´s Type Stability of Delayed Discrete System with Second-Order Differences. In Qualitative Theory of Dynamical Systems, 2024, vol. 23, art. no. 11. (2023: 1.9 - IF, Q1 - JCR, 0.517 - SJR, Q2 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-023-00868-y> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA45 | YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Study of nonlinear trapped lee waves in the modified β-plane approximation. In Physics of Fluids, 2024, vol. 36, no. 8, art. nr. 086623. (2023: 4.1 - IF, Q1 - JCR, 1.05 - SJR, Q1 - SJR). ISSN 1070-6631. Dostupné na: <https://doi.org/10.1063/5.0228355> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA46 | ZAKARYA, M. - ALNEMER, Ghada - SAIED, Ahmed I. - REZK, H. M.\*\*. Novel generalized inequalities involving a general Hardy operator with multiple variables and general kernels on time scales. In AIMS Mathematics, 2024, vol. 9, no. 8, p. 21414-21432. (2023: 1.8 - IF, Q1 - JCR, 0.456 - SJR, Q2 - SJR). ISSN 2473-6988. Dostupné na: <https://doi.org/10.3934/math.20241040> |
| ADCA47 | ZAKARYA, Mohammed - SAIED, Ahmed I. - AL-THAQFAN, Amirah Ayidh I - ALI, Maha - REZK, Haytham M.\*\*. On Some New Dynamic Hilbert-Type Inequalities across Time Scales. In Axioms, 2024, vol. 13, no. 7, art. no. 475. (2023: 1.9 - IF, Q1 - JCR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms13070475> |

**ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných**

|  |  |
| --- | --- |
| ADCB01 | FEČKAN, Michal - LI, Shan - WANG, JinRong. Discontinuous differential equation for modelling the Antarctic Circumpolar Current. In COMMUNICATIONS IN ANALYSIS AND MECHANICS, 2024, vol. 16, iss. 4, p. 836-857. ISSN 2836-3310. Dostupné na: <https://doi.org/10.3934/cam.2024036> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCB02 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Uninorms internal on one or more non-trivial cuts. In Information Sciences, 2024, vol. 653, art. nr. 119793. (2023: 2.238 - SJR, Q1 - SJR). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2023.119793> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |

**ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných**

|  |  |
| --- | --- |
| ADEB01 | ELIAŠ, Peter - ANTONI, Ľubomír\*\* - KRÍDLO, Ondrej - KRAJČI, Stanislav. Additional Notes on Heterogeneous Concept-Forming Operators. In Computational Intelligence and Mathematics for Tackling Complex Problems 5. - Cham : Springer, 2024, 2024, p. 1-7. ISBN 978-3-031-46978-7. ISSN 1860-949X. Dostupné na: <https://doi.org/10.1007/978-3-031-46979-4_1> (VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADEB02 | KOŠČ, Ivan - KOŠČOVÁ, Michaela - STOLÁRIK, Peter - MOKRÁ, Jana. Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center). In Határrendészeti tanulmányok, 2024, vol. 21, no. 4, p. 105-117. ISSN 2061-3997. Dostupné na internete: [https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/Hatrend\_Tan\_2024\_4\_k%C3%BCl%C3%B6nszam\_HSQA.pdf](https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/hatrend_tan_2024_4_kĂĽlĂ¶nszam_hsqa.pdf) |

**ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMA01 | ATTIA, Emad R. - JADLOVSKÁ, Irena\*\*. New oscillation criteria for first-order differential equations with general delay argument. In Turkish Journal of Mathematics, 2024, vol. 48, no. 4, p. 734-748. (2023: 0.8 - IF, Q2 - JCR, 0.41 - SJR, Q2 - SJR). ISSN 1300-0098. Dostupné na: <https://doi.org/10.55730/1300-0098.3537> |
| ADMA02 | BATTELLI, Flaviano - FEČKAN, Michal. Correction to: Periodic Solutions in Slowly Varying Discontinuous Differential Equations: A Non-Generic Case : Correction to original article: <https://doi.org/10.1007/s10884-022-10155-0>. In Journal of Dynamics and Differential Equations, 2024, vol. 36, p. 2999-3010. (2023: 1.4 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: https://doi.org/10.1007/s10884-022-10234-2 |
| ADMA03 | ČECH, Radek\*\* - KOSEK, Pavel - NAVRÁTILOVÁ, Olga - MAČUTEK, Ján. Development of the word order of the reflexive enclitic sě/se dependent on a finite verb in Czech translations of the Gospel of Matthew from the 14th to the 21st century. In Journal of Historical Linquistic, 2024, vol. 14, iss. 3, pp. 385-426. (2023: 0.5 - IF, 0.149 - SJR, Q3 - SJR). ISSN 2210-2116. Dostupné na: <https://doi.org/10.1075/jhl.21029.cec> (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing. APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology) |
| ADMA04 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots I. Strict Square Roots. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 499-527. (2023: 0.4 - IF, Q4 - JCR, 0.251 - SJR, Q4 - SJR). ISSN 2055-3706. Dostupné na internete: <https://www.collegepublications.co.uk/ifcolog/?00066> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADMA05 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots II. Closures. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 529-563. (2023: 0.4 - IF, Q4 - JCR, 0.251 - SJR, Q4 - SJR). ISSN 2055-3706. Dostupné na internete: <https://www.collegepublications.co.uk/ifcolog/?00066> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADMA06 | GRAEF, John R.\*\* - JADLOVSKÁ, Irena. Canonical representation of third-order delay dynamic equations on time scales. In Differential Equations and Applications, 2024, vol. 16, no. 1, p. 1-18. (2023: 0.7 - IF, Q3 - JCR). ISSN 1847-120X. Dostupné na: <https://doi.org/10.7153/dea-2024-16-01> |
| ADMA07 | HALUŠKOVÁ, Emília. On discrete properties of continuous monotone functions. In Miskolc Mathematical Notes, 2024, vol. 25, no. 2, p. 699-712. (2023: 0.9 - IF, Q2 - JCR, 0.357 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2024.4459](https://doi.org/10.18514/mmn.2024.4459) (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií) |
| ADMA08 | HALUŠKOVÁ, Emília. On discrete properties of monotone mappings. In Asian-European Journal of Mathematics, 2023, vol.16, no. 10, art.no. 2350178, 14 p. (2022: 0.8 - IF, Q3 - JCR, 0.321 - SJR, Q3 - SJR). (2023 - WOS, Scopus). ISSN 1793-5571. Dostupné na: [https://doi.org/10.1142/S1793557123501784](https://doi.org/10.1142/s1793557123501784) (VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADMA09 | HAVIAR, Miroslav - KOTUĽOVÁ, Katarína. Characterization of kites as graceful graphs. In CUBO : A Mathematical Journal, 2024, vol. 26, no. 3, p. 367-386. (2023: 0.6 - IF, Q3 - JCR, 0.206 - SJR, Q4 - SJR). ISSN 0716-7776. Dostupné na: <https://doi.org/10.56754/0719-0646.2603.367> (VEGA 2/0078/20 : Grafové invarianty, symetrie a ohodnotenia) |
| ADMA10 | HOLÁ, Ľubica - HOLÝ, Dušan. Minimal cusco maps and the topology of uniform convergence on compacta. In Filomat, 2023, vol. 37, no. 13, p. 4249-4259. (2022: 0.8 - IF, Q3 - JCR, 0.368 - SJR, Q3 - SJR). ISSN 0354-5180. Dostupné na: [https://doi.org/10.2298/FIL2313249H](https://doi.org/10.2298/fil2313249h) (Topologické štruktúry a priestory funkcií : APVV-20-0045. VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií) |
| ADMA11 | HOLÁ, Ľubica - MIRMOSTAFAEE, Alireza Kamel\*\*. Some results on joint continuity of two variable set-valued mappings. In Topology and its Applications, 2024, vol. 341, art. nr. 108734. (2023: 0.6 - IF, Q3 - JCR, 0.432 - SJR, Q3 - SJR). ISSN 0166-8641. Dostupné na: <https://doi.org/10.1016/j.topol.2023.108734> (VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií. Topologické štruktúry a priestory funkcií : APVV-20-0045) |
| ADMA12 | KAWARABAYASHI, Ken-Ichi - MOHAR, Bojan - NEDELA, Roman - ZEMAN, Peter. Automorphisms and Isomorphisms of Maps in Linear Time. In ACM Transactions on Algorithms, 2024, vol. 21, no. 1, art. nr. 6, p. 1-32. (2023: 0.9 - IF, Q3 - JCR, 1.555 - SJR, Q1 - SJR). ISSN 1549-6325. Dostupné na: <https://doi.org/10.1145/3686798> (APVV-19-0308 : Výnimočné štruktúry v diskrétnej matematike) |
| ADMA13 | NEDELA, Roman - SEIFRTOVÁ, Michaela - ŠKOVIERA, Martin\*\*. Decycling cubic graphs. In Discrete Mathematics, 2024, vol. 347, art. nr. 114039. (2023: 0.7 - IF, Q2 - JCR, 0.801 - SJR, Q1 - SJR). ISSN 0012-365X. Dostupné na: [https://doi.org/10.1016/J.DISC.2024.1](https://doi.org/10.1016/j.disc.2024.1) 114039 (APVV-19-0308 : Výnimočné štruktúry v diskrétnej matematike. VEGA 2/0078/20 : Grafové invarianty, symetrie a ohodnotenia) |
| ADMA14 | PITKA, Tomáš - BUCKO, Jozef - KRAJČI, Stanislav - KRÍDLO, Ondrej - GUNIŠ, Ján - ŠNAJDER, Ľubomír - ANTONI, Ľubomír - ELIAŠ, Peter. Time analysis of online consumer behavior by decision trees, GUHA association rules, and formal concept analysis. In Journal of Marketing Analytics, 2024, vol. 12, p. 1-24. (2023: 4.0 - IF, Q2 - JCR, 0.735 - SJR, Q1 - SJR). ISSN 2050-3318. Dostupné na: <https://doi.org/10.1057/s41270-023-00274-y> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADMA15 | RAJ, Ajay - MACKO, Tibor. On Manifolds Homotopy Equivalent to the Total Spaces of S7-Bundles over S8. In Archivum Mathematicum, 2024, vol. 60, p. 125-134. (2023: 0.5 - IF, Q3 - JCR, 0.186 - SJR, Q4 - SJR). ISSN 0044-8753. Dostupné na: [https://doi.org/10.5817/AM2024-3-125](https://doi.org/10.5817/am2024-3-125) |

**ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMB01 | ČUNDERLÍKOVÁ, Katarína. A note about almost uniform convergence on D-poset of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2024, vol. 30, no. 1, p. 56-65. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2024.30.1.56-65> (VEGA 2/0122/23 : Viachodnotové modely neurčitosti) |
| ADMB02 | ČUNDERLÍKOVÁ, Katarína. Almost uniformly convergence on MV-algebra of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2023, vol. 29, no. 4, pp. 335-342. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2023.29.4.335-342> (VEGA 2/0122/23 : Viachodnotové modely neurčitosti) |
| ADMB03 | DILNA, Natália - LANGEROVÁ, Martina. Ulam-Hyers and generalized Ulam-Hyers stability of fractional functional integro-differential equations. In IFAC-PapersOnLine, 2024, vol. 58, no. 12, pp. 280-285. (2023: 0.365 - SJR). ISSN 2405-8963. Dostupné na: <https://doi.org/10.1016/j.ifacol.2024.08.203> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADMB04 | DILNA, Natália\*\* - FEČKAN, Michal - WANG, JinRong. A Note on Quaternion Linear Dynamical Systems. In Journal of Mathematical Sciences, 2024, vol. 278, no. 6, pp. 950-962. (2023: 0.302 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-024-06973-w> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMB05 | DORA, Jean Rosemond - HLUCHÝ, Ladislav - NEMOGA, Karol. Exploitation of the Java deserialization vulnerability to access ForgeRock-OpenAM server. In SISY 2023 - IEEE 21st International Symposium on Intelligent Systems and Informatics : Proceedings. - Budapest, Hungary : IEEE, 2023, p. 345-350. ISBN 979-8-3503-4336-6. Dostupné na: [https://doi.org/10.1109/SISY60376.2023.10417960](https://doi.org/10.1109/sisy60376.2023.10417960) (SISY 2023 : IEEE 21st International Symposium on Intelligent Systems and Informatics) |
| ADMB06 | DORA, Jean Rosemond - HLUCHÝ, Ladislav - NEMOGA, Karol. Detection and exploitation of intelligent platform management interface (IPMI)\*. In SAMI 2024 - 2024 IEEE 22nd World Symposium on Applied Machine Intelligence and Informatics, Proceedings. - Danvers : IEEE, 2024, p. 265-270. ISBN 979-8-3503-1720-6. Dostupné na: [https://doi.org/10.1109/SAMI60510.2024.10432895](https://doi.org/10.1109/sami60510.2024.10432895) (SAMI 2024 : 2024 IEEE 22nd World Symposium on Applied Machine Intelligence and Informatics) |
| ADMB07 | FEKETE, Gusztav\*\* - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: [https://doi.org/10.3233/ATDE240585](https://doi.org/10.3233/atde240585) (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov. VEGA 2/0119/23 : Teória čísel a jej aplikácie. APVV-19-0220 : Ontologická reprezentácia pre bezpečnosť informačných systémov. MSAM 2024 : International Conference) |
| ADMB08 | GLAUSER, Adrian M. - P. QUANZ, Sascha - PLÁVALOVÁ, Eva. The Large Interferometer For Exoplanets (LIFE): a space mission for mid-infrared nulling interferometry. In Proceedings of SPIE - The International Society for Optical Engineeringopen : Optical and Infrared Interferometry and Imaging IX 2024, 2024, vol. 13095. (2023: 0.152 - SJR). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.3019090> (SPIE Astronomical Telescopes and Instrumentation) |
| ADMB09 | HOSPODÁR, Michal\*\* - OLEJÁR, Viktor - ŠEBEJ, Juraj. Decision Problems for Subregular Classes. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 180-194. (2023: 0.606 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-71112-1_13> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť. CIAA 2024 International Conference on Implementation and Application of Automata) |
| ADMB10 | JENČOVÁ, Anna. The exponential Orlicz space in quantum information geometry. In Information Geometry, 2024, vol. 7, p. 377-395. (2023: 0.387 - SJR, Q3 - SJR). ISSN 2511-2481. Dostupné na: <https://doi.org/10.1007/s41884-023-00097-x> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADMB11 | JIANG, Xinyan - BÍRÓ, István - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol - FEKETE, Gusztáv\*\*. Experimental Study on Ground Reaction Force Parameters with Regard to Novice and Recreational Runners. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering. - Amsterdam, Netherlands : IOS Press, 2024, 2024, vol. 59, p. ISBN 978-1-64368-547-2. Dostupné na: [https://doi.org/10.3233/ATDE240590](https://doi.org/10.3233/atde240590) (MSAM 2024 : International Conference) |
| ADMB12 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina\*\* - SHALLIT, Jeffrey. State Complexity of the Minimal Star Basis. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 195-207. (2023: 0.606 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-71112-1_14> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť. CIAA 2024 International Conference on Implementation and Application of Automata) |
| ADMB13 | LESHCHUK, S. - DILNA, Natália - GROD, I. - RADCHENKO, O. - HNOIOVA, T. The implementation of STE(A)M education through Scratch projects. In Journal of Physics: Conference Series : ICon-MaSTEd 2024 - XVI International Conference on Mathematics, Science and Technology Education, 2024, vol. 2871, art. nr. 012018, 15 p. (2023: 0.18 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/2871/1/012018> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADMB14 | MICHALÍKOVÁ, Alžbeta - DUDÁŠ, Adam. Some notes on the relationships between intuitionistic fuzzy sets and correlation analysis. In Notes on Intuitionistic Fuzzy Sets, 2024, vol. 30, no. 1, p. 77-91. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2024.30.1.77-91> |

**ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADNA01 | ALI, Muhammad Aamir - FEČKAN, Michal - PROMSAKON, Chanon - SITTHIWIRATTHAM, Thanin. A new Approach of Generalized Fractional Integrals in Multiplicative Calculus and Related Hermite–Hadamard-Type Inequalities with Applications. In Mathematica Slovaca, 2024, vol. 74, no. 6, p. 1445-1456. (2023: 0.9 - IF, Q2 - JCR, 0.404 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2024-0105> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADNA02 | JADLOVSKÁ, Irena - CHATZARAKIS, George E.\*\* - TUNC, Ercan. Kneser-type oscillation theorems for second-order functional differential equations with unbounded neutral coefficients. In Mathematica Slovaca, 2024, vol. 74, no. 3, s. 637-664. (2023: 0.9 - IF, Q2 - JCR, 0.404 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2024-0049> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADNA03 | KAOUACHE, Smail - FEČKAN, Michal - HALIM, Yacine - KHELIFA, Amira. Theoretical analysis of higher-order system of difference equations with generalized balancing numbers. In Mathematica Slovaca, 2024, vol. 74, no. 3, p. 691-702. (2023: 0.9 - IF, Q2 - JCR, 0.404 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2024-0052> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |

**AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach**

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| AECA01 | CHARVÁTOVÁ CAMPBELL, A. - ŠLESINGER, R. - KLAPETEK, P. - CHVOSTEKOVÁ, Martina - HAJZOKOVÁ, Laura - WITKOVSKÝ, Viktor - WIMMER, Gejza. Locally best linear unbiased estimation of regression curves specified by nonlinear constraints on the model parameters. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 143-150. ISBN 978-981-98-0066-7. Dostupné na: <https://doi.org/10.1142/9789819800674_0012> |
| AECA02 | JASTRZĘBSKA, Małgorzata - HALUŠKOVÁ, Emília. On Integers in Limit Constructions of Algebraic Structures. In Computer Algebra Systems in Teaching and Research 2024 : Volume XIII. - Siedlce, Poland : University of Siedlce, 2024, 2024, vol. 13, p. 107-118. ISBN 978-83-68355-03-1. (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií) |
| AECA03 | WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in the straight-line calibration. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 330-337. ISBN 978-981-98-0066-7. Dostupné na: <https://doi.org/10.1142/9789819800674_0030> (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. APVV-21-0195 : Výskum možností digitálnej transformácie kontinuálnych dopravných systémov. VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing. VEGA č. 2/0023/22 : Causal analysis of measured signals and time series) |

**AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly/state v domácich monografiách alebo VŠ učebniciach**

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| AEDA01 | KOŠČ, Ivan - STOLÁRIK, Peter - KOŠČOVÁ, Michaela - MOKRÁ, Jana. Moderné technické riešenia riadenia Schengenských hraníc. In Dvadsať rokov členstva Slovenskej republiky v Európskej únii. Prínosy, výzvy, očakávania. : Zborník príspevkov. - Bratislava : Akadémia Policajného zboru, 2024, 2024, s. 213-222. ISBN 978-80-8293-035-4. Dostupné na internete: [https://www.akademiapz.sk/sites/default/files/1889-Vedecko-vyskumna%20cinnost/Dvadsa%C5%A5%20rokov%20Slovenskej%20republiky%20v%20Eur%C3%B3pskej%20%C3%BAnii%20%E2%80%93%20pr%C3%ADnosy%2C%20v%C3%BDzvy%2C%20o%C4%8Dak%C3%A1vania%20-%20zborn%C3%ADk%20pdf.pdf#page=213](https://www.akademiapz.sk/sites/default/files/1889-vedecko-vyskumna%20cinnost/dvadsaĹĄ%20rokov%20slovenskej%20republiky%20v%20eurĂłpskej%20Ăşnii%20â€) |
| AEDA02 | KOŠČ, Ivan - KOŠČOVÁ, Michaela. Štatistická analýza textu pre potreby policajnej praxe. In Quo vadis Schengen? : Zborník. - Bratislava : Akadémia Policajného zboru, 2023, 2023, s. 41-57. ISBN 978-80-8054-994-7. Dostupné na internete: [http://87.197.171.168:8080/webisnt/fulltext/publikacie/2023/Quo%20vadis%20Schengen.pdf](http://87.197.171.168:8080/webisnt/fulltext/publikacie/2023/quo%20vadis%20schengen.pdf) (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing) |

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
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| AFC01 | KUBÁT, Miroslav\*\* - MAČUTEK, Ján - ČECH, Radek - NOGOLOVÁ, Michaela. Automatic Genre Classification of Czech Texts Based on Syntactic Functions. In New Frontiers in Textual Data Analysis. Eds. Giuseppe Giordano, Michelangelo Misuraca. - Cham, Switzerland : Springer, 2024, p. 163-172. ISBN 978-3-031-55916-7. ISSN 1431-8814. Dostupné na: <https://doi.org/10.1007/978-3-031-55917-4_13> (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing. APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology) |

**AFG Abstrakty príspevkov zo zahraničných konferencií**

|  |  |
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| AFG01 | PLÁVALOVÁ, Eva. Classifications for exoplanet and exoplanetary systems - could it be developed? In LPI Contribution, 2024, no. 2878. ISSN 0161-5297.  Dostupné na internete: <https://www.hou.usra.edu/meetings/planetcharacterization2024/pdf/2880.pdf> (Planet Characterization in the Solar System and the Galaxy Workshop 2024) |

**AFH Abstrakty príspevkov z domácich konferencií**

|  |  |
| --- | --- |
| AFH01 | HOSPODÁR, Michal. Popisná zložitosť regulárnych operácií. In 52. konferencia slovenských matematikov. - Žilina, Slovensko : Slovenská matematická spoločnosť, sekcia JSMF, 2022, 2022, p. 28. ISBN 978-80-554-1500-0. Dostupné na internete: <https://www.jsmf.eu/52-konferencia-slovenskych-matematikov/> |

**BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)**

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| BEE01 | NOGOLOVÁ, Michaela - MAČUTEK, Ján - KUBÁT, Miroslav. What can be heard in the Czech Parliament. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 2.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 673-682. ISBN 978-2-39061-473-9. (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA 2/0120/24 : Teoretické vlastnosti a aplikácie špeciálnych tried rozdelení pravdepodobnosti. JADT 2024 : International Conference on Statistical Analysis of Textual Data) |
| BEE02 | XIYNING, Chen - KUBÁT, Miroslav - MAČUTEK, Ján. Directions of Dependency Structures in the Czech National Corpus SYN2020: Application to Genre Classification. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 1.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 219-228. ISBN 978-2-39061-471-5. (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA 2/0120/24 : Teoretické vlastnosti a aplikácie špeciálnych tried rozdelení pravdepodobnosti. JADT 2024 : International Conference on Statistical Analysis of Textual Data) |

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

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| GHG01 | DILNA, Natália - LANGEROVÁ, Martina. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Functional Integro-Differential Equations : Abstract. In ICFDA 2024 : Book of Abstracts. - Bordeaux, France : IFAC, France, 2024, 2024, p. 308-313. Dostupné na internete: [https://ifac.papercept.net/conferences/scripts/rtf/FDA24\_ContentListWeb\_3.html](https://ifac.papercept.net/conferences/scripts/rtf/fda24_contentlistweb_3.html) (IFAC Conference on Fractional Differentiation and its Applications) |
| GHG02 | DILNA, Natália. D-stability of the model of the Stieltjes string : Abstract. In Equadiff 2024 : Book of Abstracts. - Karlstad, Sweden : Karlstads Universitet, 2024, 2024, no. 1D340. Dostupné na internete: [https://www.kau.se/files/2024-06/Book\_of\_Abstracts%28a%29.pdf](https://www.kau.se/files/2024-06/book_of_abstracts(a).pdf) (EQUADIFF 2024) |
| GHG03 | HALUŠKOVÁ, Emília. Modular lattice - a short memory of the centenary of the birth of Ján Jakubík. In 22. Konferencia košických matematikov. - Košice, Slovensko : Technická univerzita v Košiciach, 2024, 2024, s. 22-23. ISBN 978-80-553-4666-3. Dostupné na internete: [https://jsmf.fberg.tuke.sk/zborniky/Herlany2024BOA.pdf](https://jsmf.fberg.tuke.sk/zborniky/herlany2024boa.pdf) (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií) |

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| GHG04 | MACKO, Tibor. The total surgery obstruction of Andrew Ranicki. In Celebratio Mathematica, 2024, art. nr. 1054.  Dostupné na internete: [https://celebratio.org/Ranicki\_A/article/1054/](https://celebratio.org/ranicki_a/article/1054/) |

**GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií**

|  |  |
| --- | --- |
| GII01 | DVUREČENSKIJ, Anatolij - WITKOVSKÝ, Viktor. Prof. RNDr. Gejza Wimmer, DrSc. - 3/4 C? In Mathematica Slovaca, 2024, vol. 74, no. 1, s. 1-4. (2023: 0.9 - IF, Q2 - JCR, 0.404 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2024-0001> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
| GII02 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Calibration model as a straight-line errors-in-variables model. In The Eighth International Conference on Mathematical Statistics PROBASTAT 2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52. (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA 2/0120/24 : Teoretické vlastnosti a aplikácie špeciálnych tried rozdelení pravdepodobnosti. VEGA č. 2/0023/22 : Causal analysis of measured signals and time series) |
| GII03 | WIMMER, Gejza - WITKOVSKÝ, Viktor - ZŮDA, J. Kalibrácia dvoch závaží s použitím referenčného závažia. In ROBUST 2024: Sborník abstraktů. - Praha, ČR : JČMF, 2024, p. 19. |

**Ohlasy (citácie):**

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| AAA01 | BARTKOVÁ, Renáta - RIEČAN, Beloslav - TIRPÁKOVÁ, Anna. Probability theory for fuzzy quantum spaces with statistical applications. Sharjah, UAE : Bentham Science Publishers, 2017. 190 p. ISBN 978-1-68108-539-5 |

Citácie:

*1. [1.2] DUPLIJ, Steven - VOGL, Raimund. Innovative quantum computing. In Innovative Quantum Computing, 2023-11-14, pp. 1-175. Dostupné na:* [*https://doi.org/10.1088/978-0-7503-5281-9*](https://doi.org/10.1088/978-0-7503-5281-9)*, Registrované v: SCOPUS*

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| AAA02 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. New Trends in Quantum Structures. Dordrecht : Kluwer Academic ; Bratislava : Ister Science, 2000. 541+xvi pp. ISBN 0-7923-6471-6 |

Citácie:

*1. [1.1] AVALLONE, A. - VITOLO, P. Sharp elements in dsub0/sub-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS, 2023, vol. 20, no. 6, pp. 85-103. ISSN 1735-0654. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.43899.7730*](https://doi.org/10.22111/ijfs.2023.43899.7730)*, Registrované v: WOS*

*2. [1.1] BINCZAK, Grzegorz - KALETA, Joanna - ZEMBRZUSKI, Andrzej. MATRIX REPRESENTATION OF FINITE EFFECT ALGEBRAS. In KYBERNETIKA, 2023, vol. 59, no. 5, pp. 737-751. ISSN 0023-5954. Dostupné na:* [*https://doi.org/10.14736/kyb-2023-5-0737*](https://doi.org/10.14736/kyb-2023-5-0737)*, Registrované v: WOS*

*3. [1.1] BURESOVA, Dominika - PTAK, Pavel. ON LOCALLY FINITE ORTHOMODULAR LATTICES. In MATHEMATICA SLOVACA, 2023, vol. 73, no. 2, pp. 545-549. ISSN 0139-9918. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0040*](https://doi.org/10.1515/ms-2023-0040)*, Registrované v: WOS*

*4. [1.1] BURESOVA, Dominika - PTAK, Pavel. On the Set-Representable Orthomodular Posets that are Point-Distinguishing. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2023, vol. 62, no. 8, pp. ISSN 0020-7748. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05436-3*](https://doi.org/10.1007/s10773-023-05436-3)*, Registrované v: WOS*

*5. [1.1] BURESOVA, Dominika. Generalized XOR Operation and the Categorical Equivalence of the Abbott Algebras and Quantum Logics. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2023, vol. 62, no. 5, pp. ISSN 0020-7748. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05355-3*](https://doi.org/10.1007/s10773-023-05355-3)*, Registrované v: WOS*

*6. [1.1] CHAJDA, Ivan - EMIR, Kadir - FAZIO, Davide - LANGER, Helmut - LEDDA, Antonio - PASEKA, Jan. An algebraic analysis of implication in non-distributive logics. In JOURNAL OF LOGIC AND COMPUTATION, 2023, vol. 33, no. 1, pp. 47-89. ISSN 0955-792X. Dostupné na:* [*https://doi.org/10.1093/logcom/exac041*](https://doi.org/10.1093/logcom/exac041)*, Registrované v: WOS*

*7. [1.1] CIUNGU, Lavinia Corina. Implicative-orthomodular algebras. In BULLETIN OF THE BELGIAN MATHEMATICAL SOCIETY-SIMON STEVIN, 2023, vol. 30, no. 4, pp. 510-531. ISSN 1370-1444. Dostupné na:* [*https://doi.org/10.36045/j.bbms.230508*](https://doi.org/10.36045/j.bbms.230508)*, Registrované v: WOS*

*8. [1.1] KUDAYBERGENOV, K. K. - NURJANOV, B. O. PARTIAL ORDERS ON \*-REGULAR RINGS. In UFA MATHEMATICAL JOURNAL, 2023, vol. 15, no. 1, pp. 34-42. ISSN 2074-1863. Dostupné na:* [*https://doi.org/10.13108/2023-15-1-34*](https://doi.org/10.13108/2023-15-1-34)*, Registrované v: WOS*

*9. [1.1] PLAVALA, Martin. General probabilistic theories: An introduction. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, 2023, vol. 1033, no., pp. 1-64. ISSN 0370-1573. Dostupné na:* [*https://doi.org/10.1016/j.physrep.2023.09.001*](https://doi.org/10.1016/j.physrep.2023.09.001)*, Registrované v: WOS*

*10. [1.1] RUMP, Wolfgang. Prime iL/i-algebras and right-angled Artin groups. In SEMIGROUP FORUM, 2023, vol. 106, no. 2, pp. 481-503. ISSN 0037-1912. Dostupné na:* [*https://doi.org/10.1007/s00233-023-10343-4*](https://doi.org/10.1007/s00233-023-10343-4)*, Registrované v: WOS*

*11. [1.1] RUMP, Wolfgang. THE CATEGORY OF L-ALGEBRAS. In THEORY AND APPLICATIONS OF CATEGORIES, 2023, vol. 39, no. 21, pp. 598-624. ISSN 1201-561X., Registrované v: WOS*

*12. [1.1] RUMP, Wolfgang. iL/i-algebras and topology. In JOURNAL OF ALGEBRA AND ITS APPLICATIONS, 2023, vol. 22, no. 02, pp. ISSN 0219-4988. Dostupné na:* [*https://doi.org/10.1142/S0219498823500342*](https://doi.org/10.1142/s0219498823500342)*, Registrované v: WOS*

*13. [1.1] SHI, Fu-Gui - WEI, Xiaowei. Interval convexity of scale effect algebras. In COMMUNICATIONS IN ALGEBRA, 2023, vol. 51, no. 7, pp. 2877-2894. ISSN 0092-7872. Dostupné na:* [*https://doi.org/10.1080/00927872.2023.2173765*](https://doi.org/10.1080/00927872.2023.2173765)*, Registrované v: WOS*

*14. [1.1] SINGH, Akhilesh Kumar. Characterizations of functions of bounded variation on effect algebras. In ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, 2023, vol. 16, no. 07, pp. ISSN 1793-5571. Dostupné na:* [*https://doi.org/10.1142/S179355712350122X*](https://doi.org/10.1142/s179355712350122x)*, Registrované v: WOS*

*15. [1.1] SINGH, Akhilesh kumar. EXPONENTIAL ENTROPY ON SEQUENTIAL EFFECT ALGEBRAS. In REPORTS ON MATHEMATICAL PHYSICS, 2023, vol. 92, no. 1, pp. 49-58. ISSN 0034-4877. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(23)00054-X*](https://doi.org/10.1016/s0034-4877(23)00054-x)*, Registrované v: WOS*

*16. [1.1] TKADLEC, Josef - ZACEK, Petr. Associativity and Distributivity-Like Properties in Generalized Effect Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2023, vol. 62, no. 6, pp. ISSN 0020-7748. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05371-3*](https://doi.org/10.1007/s10773-023-05371-3)*, Registrované v: WOS*

*17. [1.1] WU, Yali - LI, Xia - WANG, Jing. Notes on Sharp and Principal Elements in Effect Algebras. In ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS, 2023, vol. 40, no. 3, pp. 525-536. ISSN 0167-8094. Dostupné na:* [*https://doi.org/10.1007/s11083-022-09619-1*](https://doi.org/10.1007/s11083-022-09619-1)*, Registrované v: WOS*

*18. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

*19. [1.2] DUPLIJ, Steven - VOGL, Raimund. Innovative quantum computing. In Innovative Quantum Computing, 2023-11-14, pp. 1-175. Dostupné na:* [*https://doi.org/10.1088/978-0-7503-5281-9*](https://doi.org/10.1088/978-0-7503-5281-9)*, Registrované v: SCOPUS*

*20. [1.2] KHALAF, A. B. - AHMED, N. K. ON PRE-TOPOLOGICAL BCK-ALGEBRAS. In Journal of Algebra and Related Topics, 2023-06-01, 11, 1, pp. 65-80. ISSN 23453931. Dostupné na:* [*https://doi.org/10.22124/jart.2023.22990.1439*](https://doi.org/10.22124/jart.2023.22990.1439)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA03 | DVUREČENSKIJ, Anatolij. Gleason´s Theorem and Its Applications. Dordrecht : Kluwer Academic Publishers, 1993. 325+xv pp. ISBN 978-0-7923-1990-0 |

Citácie:

*1. [1.1] MORI, Michiya. ON REGULAR \*-ALGEBRAS OF BOUNDED LINEAR OPERATORS: A NEW APPROACH TOWARDS A THEORY OF NONCOMMUTATIVE BOOLEAN ALGEBRAS. In TOHOKU MATHEMATICAL JOURNAL, 2023, vol. 75, no. 3, pp. 423-463. ISSN 0040-8735. Dostupné na:* [*https://doi.org/10.2748/tmj.20220316*](https://doi.org/10.2748/tmj.20220316)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AAA04 | FEČKAN, Michal. Bifurcation and chaos in discontinuous and continuous systems : [1.] vyd. Berlin : Springer-Verlag, 2011. 378 s. ISBN 978-7-04-031533-2 |

Citácie:

*1. [1.2] ZHOU, Mi - DU, Zhengdong. Transversal Heteroclinic Bifurcation in Hybrid Systems with Application to Linked Rocking Blocks. In Journal of Nonlinear Modeling and Analysis, 2022-03-01, 4, 1, pp. 18-41. Dostupné na:* [*https://doi.org/10.12150/jnma.2022.42*](https://doi.org/10.12150/jnma.2022.42)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA05 | FEČKAN, Michal. Topological degree approach to bifurcation problems. Berlin : Springer, 2008. 261 s. ISBN 978-1-4020-8723-3 |

Citácie:

*1. [1.1] FAREE, Taghareed A. - PANCHAL, Satish K. Existence of solution for impulsive fractional differential equations with nonlocal conditions by topological degree theory. In RESULTS IN APPLIED MATHEMATICS, 2023, vol. 18, no., pp. ISSN 2590-0374. Dostupné na:* [*https://doi.org/10.1016/j.rinam.2023.100377*](https://doi.org/10.1016/j.rinam.2023.100377)*, Registrované v: WOS*

*2. [1.2] BAYAT, Morteza - ASADI, Mehdi. Periodic Solutions of Certain Higher Order Autonomous Differential Equations via Topological Degree Theory. In Advances in the Theory of Nonlinear Analysis and its Applications, 2023-01-01, 7, 5, pp. 193-205. ISSN 25872648. Dostupné na:* [*https://doi.org/10.17762/atnaa.v7.i5.335*](https://doi.org/10.17762/atnaa.v7.i5.335)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA06 | FEČKAN, Michal - WANG, JinRong - POSPÍŠIL, Michal. Fractional-order equations and inclusions. Berlin : Walter de Gruyter, 2017. 366 p. Fractional Calculus in Applied Sciences and Engineering, vol. 3. ISBN 978-3-11-052138-2 |

Citácie:

*1. [1.1] ALIYEVA, S. T. First- and Second-Order Necessary Optimality Conditions for a Control Problem Described by Nonlinear Fractional Difference Equations. In AUTOMATION AND REMOTE CONTROL, 2023, vol. 84, no. 3,   
  
pp. 187-195. ISSN 0005-1179. Dostupné na:* [*https://doi.org/10.1134/S0005117923030025*](https://doi.org/10.1134/s0005117923030025)*, Registrované v: WOS*

*2. [1.1] DILNA, Natalia. GENERAL EXACT SOLVABILITY CONDITIONS FOR THE INITIAL VALUE PROBLEMS FOR LINEAR FRACTIONAL FUNCTIONAL DIFFERENTIAL EQUATIONS. In ARCHIVUM MATHEMATICUM, 2023, vol. 59, no. 1, pp. 11-19. ISSN 1212-5059. Dostupné na:* [*https://doi.org/10.5817/AM2023-1-11*](https://doi.org/10.5817/am2023-1-11)*, Registrované v: WOS*

*3. [1.1] GHALIA, Samia - AFFANE, Doria. On the Attainable Set of Iterative Differential Inclusions. In MATHEMATICA SLOVACA, 2023, vol. 73, no. 6, pp. 1479-1498. ISSN 0139-9918. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0107*](https://doi.org/10.1515/ms-2023-0107)*, Registrované v: WOS*

*4. [1.1] LIANG, Fen - LEE, Ho-Joon - ZHANG, Hongwei. Fractional-Order Phase Lead Compensation Multirate Repetitive Control for Grid-Tied Inverters. In FRACTAL AND FRACTIONAL, 2023, vol. 7, no. 12, pp. Dostupné na:* [*https://doi.org/10.3390/fractalfract7120848*](https://doi.org/10.3390/fractalfract7120848)*, Registrované v: WOS*

*5. [1.1] PANDURANGAN, Rajiniganth - SHANMUGAM, Saravanan - RHAIMA, Mohamed - GHOUDI, Hamza. The Generalized Discrete Proportional Derivative and Its Applications. In FRACTAL AND FRACTIONAL, 2023, vol. 7, no. 12, pp. Dostupné na:* [*https://doi.org/10.3390/fractalfract7120838*](https://doi.org/10.3390/fractalfract7120838)*, Registrované v: WOS*

*6. [1.1] YANG, Qing - BAI, Chuanzhi - YANG, Dandan. Controllability of a Class of Impulsive ψ-Caputo Fractional Evolution Equations of Sobolev Type. In AXIOMS, 2022, vol. 11, no. 6, art. nr. 283, p. 19. Dostupné na:* [*https://doi.org/10.3390/axioms11060283*](https://doi.org/10.3390/axioms11060283)*, Registrované v: WOS*

*7. [1.2] ABBAS, Saïd - BENCHOHRA, Mouffak - LAZREG, Jamal Eddine - NIETO, Juan J. - ZHOU, Yong. Fractional Differential Equations and Inclusions: Classical and Advanced Topics. In Fractional Differential Equations and Inclusions: Classical and Advanced Topics, 2023-01-01, pp. 1-301. Dostupné na:* [*https://doi.org/10.1142/12993*](https://doi.org/10.1142/12993)*, Registrované v: SCOPUS*

*8. [1.2] DILNA, Natalia. Precise Conditions on the Unique Solvability of the Linear Fractional Functional Differential Equations Related to the ς-Nonpositive Operators. In Fractal and Fractional, 2023-10-01, 7, 10, pp. Dostupné na:* [*https://doi.org/10.3390/fractalfract7100720*](https://doi.org/10.3390/fractalfract7100720)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA07 | FEČKAN, Michal - POSPÍŠIL, Michal. Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems. Amsterdam : Elsevier, 2016. 244 p. ISBN 978-0-12-804294-6 |

Citácie:

*1. [1.1] GJATA, O. - ZANOLIN, F. An Application of the Melnikov Method to a Piecewise Oscillator. In CONTEMPORARY MATHEMATICS. ISSN 2705-1064, 2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.37256/cm.4220232160*](https://doi.org/10.37256/cm.4220232160)*, Registrované v: WOS*

*2. [1.1] LUO, F. - DU, Z.D. Complicated periodic cascades arising from double grazing bifurcations in an impact oscillator with two rigid constraints. In NONLINEAR DYNAMICS. ISSN 0924-090X, AUG 2023, vol. 111, no. 15, p. 13829-13852. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08600-w*](https://doi.org/10.1007/s11071-023-08600-w)*, Registrované v: WOS*

*3. [1.2] JIANG, Jinkai - DU, Zhengdong. Heteroclinic bifurcation in a quasi-periodically excited rigid rocking block with two frequencies. In Soil Dynamics and Earthquake Engineering, 2023-02-01, 165, pp. ISSN 02677261. Dostupné na:* [*https://doi.org/10.1016/j.soildyn.2022.107677*](https://doi.org/10.1016/j.soildyn.2022.107677)*, Registrované v: SCOPUS*

*4. [1.2] LI, Tao - LLIBRE, Jaume. Limit cycles in piecewise polynomial Hamiltonian systems allowing nonlinear switching boundaries. In Journal of Differential Equations, 2023-01-25, 344, pp. 405-438. ISSN 00220396. Dostupné na:* [*https://doi.org/10.1016/j.jde.2022.11.007*](https://doi.org/10.1016/j.jde.2022.11.007)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA08 | HALUŠKA, Ján. The Mathematical theory of tone systems. New York, Basel : Marcel Dekker ; Bratislava : Ister Science, 2004. 380 p. ISBN 0-8247-4714-3 |

Citácie:

*1. [1.1] KOWALEWSKI, Douglas A. The Sound of Manufactured Music: Reviewing the Role of Artificial Stimuli in Music Cognition Research. In PSYCHOMUSICOLOGY, 2023, vol. 33, no. 1-4, pp. 70-91. ISSN 0275-3987. Dostupné na:* [*https://doi.org/10.1037/pmu0000304*](https://doi.org/10.1037/pmu0000304)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AAA09 | HOLÁ, Ľubica - HOLÝ, Dušan - MOORS, Warren. USCO and Quasicontinuous Mappings. Berlin : Walter de Gruyter, 2021. 295 p. Studies in Mathematics, 81. Dostupné na: <https://doi.org/10.1515/9783110750188-201>. ISBN 978-3-11-075015-7 |

Citácie:

*1. [1.1] LINDBERG, Sauli. A Note on the Jacobian Problem of Coifman, Lions, Meyer and Semmes. In JOURNAL OF FOURIER ANALYSIS AND APPLICATIONS, 2023, vol. 29, no. 6, art. nr. 68. ISSN 1069-5869. Dostupné na:* [*https://doi.org/10.1007/s00041-023-10041-3*](https://doi.org/10.1007/s00041-023-10041-3)*, Registrované v: WOS*

*2. [1.1] SANDERS, Sam. BIG IN REVERSE MATHEMATICS: MEASURE AND CATEGORY. In JOURNAL OF SYMBOLIC LOGIC, 2023, vol., no., pp. ISSN 0022-4812. Dostupné na:* [*https://doi.org/10.1017/jsl.2023.65*](https://doi.org/10.1017/jsl.2023.65)*, Registrované v: WOS*

*3. [1.2] SANDERS, Sam. The Non-normal Abyss in Kleene's Computability Theory. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13967 LNCS, pp. 37-49. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-36978-0\_4*](https://doi.org/10.1007/978-3-031-36978-0_4)*, Registrované v: SCOPUS*

*4. [2.2] MATEJDES, Milan. A FEW VARIANTS OF QUASI-CONTINUITY IN BITOPOLOGICAL SPACES. In Tatra Mountains Mathematical Publications, 2023-11-01, 85, 3, pp. 27-44. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2023-0022*](https://doi.org/10.2478/tmmp-2023-0022)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA10 | KUBÁČEK, Ľubomír. Foundations of Estimation Theory. Amsterdam-Oxford-New York-Tokyo : Elsevier, 1988. 328 s. |

Citácie:

*1. [1.1] PALENCAR, Jakub - PALENCAR, Rudolf - CHYTIL, Miroslav - WIMMER, Gejza - WIMMER, Gejza - WITKOVSKY, Viktor. ISO Linear Calibration and Measurement Uncertainty of the Result Obtained With the Calibrated Instrument. In MEASUREMENT SCIENCE REVIEW, 2022, vol. 22, no. 6, pp. 293-307. ISSN 1335-8871. Dostupné na:* [*https://doi.org/10.2478/msr-2022-0037*](https://doi.org/10.2478/msr-2022-0037)*, Registrované v: WOS*

*2. [1.2] SLESINGER, Radek - CAMPBELL, Anna Charvatova - GERSLOVA, Zdenka - SINDLAR, Vojtech - WIMMER, Gejza. OEFPIL: New Method and Software Tool for Fitting Nonlinear Functions to Correlated Data With Errors in Variables. In Proceedings of the 14th International Conference on Measurement, MEASUREMENT 2023, 2023-01-01, pp. 126-129. Dostupné na:* [*https://doi.org/10.23919/MEASUREMENT59122.2023.10164444*](https://doi.org/10.23919/measurement59122.2023.10164444)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA11 | KWAK, J.H. - NEDELA, Roman. Graphs and Their Coverings. Pohang : Pohang University of Science and Technology, 2007. 110 s. |

Citácie:

*1. [1.1] AMOLI, Pooriya Majd - DARAFSHEH, Mohammad Reza - TEHRANIAN, Abolfazl. SEMI-SYMMETRIC CUBIC GRAPH OF ORDER 12ip/iSUP3/SUP. In BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, 2022, vol. 59, no. 1,   
  
pp. 203-212. ISSN 1015-8634. Dostupné na:* [*https://doi.org/10.4134/BKMS.b210224*](https://doi.org/10.4134/bkms.b210224)*, Registrované v: WOS*

*2. [1.1] BOK, Jan - FIALA, Jiff - JEDLICKOVA, Nikola - KRATOCHVIL, Jan - RZAZEWSKI, Pawel. List Covering of Regular Multigraphs. In COMBINATORIAL ALGORITHMS (IWOCA 2022), 2022, vol. 13270, no., pp. 228-242. ISSN 0302-9743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-06678-8\_17*](https://doi.org/10.1007/978-3-031-06678-8_17)*, Registrované v: WOS*

*3. [1.1] BOK, Jan - FIALA, Jiri - JEDLICKOVA, Nikola - KRATOCHVIL, Jan - SEIFRTOVA, Michaela. Computational Complexity of Covering Colored Mixed Multigraphs with Degree Partition Equivalence Classes of Size at Most Two (Extended Abstract). In GRAPH-THEORETIC CONCEPTS IN COMPUTER SCIENCE, WG 2023, 2023, vol. 14093, no., pp. 101-115. ISSN 0302-9743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-43380-1\_8*](https://doi.org/10.1007/978-3-031-43380-1_8)*, Registrované v: WOS*

*4. [1.1] CARMESIN, Johannes. Local 2-separators. In JOURNAL OF COMBINATORIAL THEORY SERIES B, 2022, vol. 156, no., pp. 101-144. ISSN 0095-8956. Dostupné na:* [*https://doi.org/10.1016/j.jctb.2022.04.005*](https://doi.org/10.1016/j.jctb.2022.04.005)*, Registrované v: WOS*

*5. [1.1] PLANAT, Michel - AMARAL, Marcelo M. - FANG, Fang - CHESTER, David - ASCHHEIM, Raymond - IRWIN, Klee. DNA Sequence and Structure under the Prism of Group Theory and Algebraic Surfaces. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 21, pp. Dostupné na:* [*https://doi.org/10.3390/ijms232113290*](https://doi.org/10.3390/ijms232113290)*, Registrované v: WOS*

*6. [1.1] PLANAT, Michel - AMARAL, Marcelo M. - FANG, Fang - CHESTER, David - ASCHHEIM, Raymond - IRWIN, Klee. Group Theory of Syntactical Freedom in DNA Transcription and Genome Decoding. In CURRENT ISSUES IN MOLECULAR BIOLOGY, 2022, vol. 44, no. 4, pp. 1417-1433. ISSN 1467-3037. Dostupné na:* [*https://doi.org/10.3390/cimb44040095*](https://doi.org/10.3390/cimb44040095)*, Registrované v: WOS*

*7. [1.1] PLANAT, Michel - AMARAL, Marcelo. M. M. - IRWIN, Klee. Algebraic Morphology of DNA-RNA Transcription and Regulation. In SYMMETRY-BASEL, 2023, vol. 15, no. 3, pp. Dostupné na:* [*https://doi.org/10.3390/sym15030770*](https://doi.org/10.3390/sym15030770)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AAA12 | PÁZMAN, Andrej. Foundations of Optimum Experimental Design. Dordrecht : Reidel Publ. Comp, 1986. 286 s. |

Citácie:

*1. [1.1] AHMED, Muhammad Farhan - MASOOD, Khayyam - FREMONT, Vincent - FANTONI, Isabelle. Active SLAM: A Review on Last Decade. In SENSORS, 2023, vol. 23, no. 19, pp. Dostupné na:* [*https://doi.org/10.3390/s23198097*](https://doi.org/10.3390/s23198097)*, Registrované v: WOS*

*2. [1.1] ATTIA, A. H. M. E. D. - LEYFFER, S. V. E. N. - MUNSON, T. O. D. D. S. STOCHASTIC LEARNING APPROACH FOR BINARY OPTIMIZATION: APPLICATION TO BAYESIAN OPTIMAL DESIGN OF EXPERIMENTS\*. In SIAM JOURNAL ON SCIENTIFIC COMPUTING, 2022, vol. 44, no. 2, pp. B395-B427. ISSN 1064-8275. Dostupné na:* [*https://doi.org/10.1137/21M1404363*](https://doi.org/10.1137/21m1404363)*, Registrované v: WOS*

*3. [1.1] ATTIA, Ahmed - CONSTANTINESCU, Emil. OPTIMAL EXPERIMENTAL DESIGN FOR INVERSE PROBLEMS IN THE PRESENCE OF OBSERVATION CORRELATIONS. In SIAM JOURNAL ON SCIENTIFIC COMPUTING, 2022, vol. 44, no. 4, pp. A2808-A2842. ISSN 1064-8275. Dostupné na:* [*https://doi.org/10.1137/21M1418666*](https://doi.org/10.1137/21m1418666)*, Registrované v: WOS*

*4. [1.1] CHEN, Pin-Yang - CHEN, Ray-Bing - WONG, Weng Kee. Particle swarm optimization for searching efficient experimental designs: A review. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL STATISTICS, 2022, vol. 14, no. 5, pp. ISSN 1939-0068. Dostupné na:* [*https://doi.org/10.1002/wics.1578*](https://doi.org/10.1002/wics.1578)*, Registrované v: WOS*

*5. [1.1] FROTSCHER, Ophelia - MARTINEK, Viktor - FINGERHUT, Robin - YANG, Xiaoxian - VRABEC, Jadran - HERZOG, Roland - RICHTER, Markus. Proof of Concept for Fast Equation of State Development Using an Integrated Experimental-Computational Approach. In INTERNATIONAL JOURNAL OF THERMOPHYSICS, 2023, vol. 44, no. 7, pp. ISSN 0195-928X. Dostupné na:* [*https://doi.org/10.1007/s10765-023-03197-z*](https://doi.org/10.1007/s10765-023-03197-z)*, Registrované v: WOS*

*6. [1.1] GUNDUZ, Necla - TORSNEY, Bernard. iD/i-Optimal Designs for Binary and Weighted Linear Regression Models: One Design Variable. In MATHEMATICS, 2023, vol. 11, no. 9, pp. Dostupné na:* [*https://doi.org/10.3390/math11092075*](https://doi.org/10.3390/math11092075)*, Registrované v: WOS*

*7. [1.1] HART, Joseph - WAANDERS, Bart van Bloemen - HOOD, Lisa - PARISH, Julie. Sensitivity-Driven Experimental Design to Facilitate Control of Dynamical Systems. In JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, 2023, vol. 196, no. 3, pp. 855-881. ISSN 0022-3239. Dostupné na:* [*https://doi.org/10.1007/s10957-023-02172-w*](https://doi.org/10.1007/s10957-023-02172-w)*, Registrované v: WOS*

*8. [1.1] LOPEZ-FIDALGO, Jesus - MAY, Aterina - MOLER, Jose Antonio. DESIGNING EXPERIMENTS FOR ESTIMATING AN APPROPRIATE OUTLET SIZE FOR A SILO TYPE PROBLEM. In ANNALS OF APPLIED STATISTICS, 2023, vol. 17, no. 1, pp. 606-620. ISSN 1932-6157. Dostupné na:* [*https://doi.org/10.1214/22-AOAS1644*](https://doi.org/10.1214/22-aoas1644)*, Registrované v: WOS*

*9. [1.1] PRUS, Maryna. Optimal designs for prediction of random effects in two-groups models with multivariate response. In JOURNAL OF MULTIVARIATE ANALYSIS, 2023, vol. 198, no., pp. ISSN 0047-259X. Dostupné na:* [*https://doi.org/10.1016/j.jmva.2023.105212*](https://doi.org/10.1016/j.jmva.2023.105212)*, Registrované v: WOS*

*10. [1.2] AHMED, Muhammad Farhan - FREMONT, Vincent - FANTONI, Isabelle. Active SLAM Utility Function Exploiting Path Entropy. In Proceedings of the 17th IEEE International Conference on Service Operations and Logistics, and Informatics, SOLI 2023, 2023-01-01, pp. Dostupné na:* [*https://doi.org/10.1109/SOLI60636.2023.10425063*](https://doi.org/10.1109/soli60636.2023.10425063)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA13 | PÁZMAN, Andrej. Nonlinear statistical models. Dordrecht : Kluwer Academic Publishers, 1993. 257 s. ISBN 0-7923-22479 |

Citácie:

*1. [1.1] STEHLIK, M. - SABOLOVA, R. - SECKAROVA, V. - SOZA, L. Nunez - KISEL';AK, J. "I-divergence based statistical inference for heteroscedasticity and compounds of arsenic contamination in Chile" (vol 226, 104579, 2022 ]. In CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, 2023, vol. 234, no., pp. ISSN 0169-7439. Dostupné na:* [*https://doi.org/10.1016/j.chemolab.2023.104764*](https://doi.org/10.1016/j.chemolab.2023.104764)*, Registrované v: WOS*

*2. [1.2] JARUŠKOVÁ, D. EFFECT OF RANDOM PARAMETERS IN NONLINEAR REGRESSION ON THE OPTIMAL EXPERIMENTAL DESIGN (UNCECOMP 2023). In UNCECOMP Proceedings, 2023-01-01, pp., Registrované v: SCOPUS*

*3. [1.2] RAFAJŁOWICZ, Ewaryst. Optimal Input Signals for Parameter Estimation: In Linear Systems with Spatio-Temporal Dynamics. In Optimal Input Signals for Parameter Estimation: In Linear Systems with Spatio-Temporal Dynamics, 2022-01-01, pp. 1-184. Dostupné na:* [*https://doi.org/10.1515/9783110351040*](https://doi.org/10.1515/9783110351040)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA14 | PTAK, Pavel - PULMANNOVÁ, Sylvia. Orthomodular Structures as Quantum Logics. Dordrecht : Kluwer Academic Publishers ; Bratislava : VEDA, 1991. 244 s. ISBN 0-7923-1207-4 |

Citácie:

*1. [1.1] CHAJDA, Ivan - KOLARIK, Miroslav - LAENGER, Helmut. Orthomodular and Skew Orthomodular Posets. In SYMMETRY-BASEL, 2023, vol. 15, no. 4, pp. Dostupné na:* [*https://doi.org/10.3390/sym15040810*](https://doi.org/10.3390/sym15040810)*, Registrované v: WOS*

*2. [1.1] CHAJDA, Ivan - LAENGER, Helmut. Algebraic structures formalizing the logic with unsharp implication and negation. In LOGIC JOURNAL OF THE IGPL, 2023, vol., no., pp. ISSN 1367-0751. Dostupné na:* [*https://doi.org/10.1093/jigpal/jzad023*](https://doi.org/10.1093/jigpal/jzad023)*, Registrované v: WOS*

*3. [1.1] CHAJDA, Ivan - LAENGER, Helmut. Operator residuation in orthomodular posets of finite height. In FUZZY SETS AND SYSTEMS, 2023, vol. 467, no., pp. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108589*](https://doi.org/10.1016/j.fss.2023.108589)*, Registrované v: WOS*

*4. [1.1] CHAJDA, Ivan - LAENGER, Helmut. Tense Logic Based on Finite Orthomodular Posets. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2023, vol. 62, no. 4, pp. ISSN 0020-7748. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05327-7*](https://doi.org/10.1007/s10773-023-05327-7)*, Registrované v: WOS*

*5. [1.1] KUDAYBERGENOV, K. K. - NURJANOV, B. O. PARTIAL ORDERS ON \*-REGULAR RINGS. In UFA MATHEMATICAL JOURNAL, 2023, vol. 15, no. 1, pp. 34-42. ISSN 2074-1863. Dostupné na:* [*https://doi.org/10.13108/2023-15-1-34*](https://doi.org/10.13108/2023-15-1-34)*, Registrované v: WOS*

*6. [1.1] WU, Yali - LI, Xia - WANG, Jing. Notes on Sharp and Principal Elements in Effect Algebras. In ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS, 2023, vol. 40, no. 3, pp. 525-536. ISSN 0167-8094. Dostupné na:* [*https://doi.org/10.1007/s11083-022-09619-1*](https://doi.org/10.1007/s11083-022-09619-1)*, Registrované v: WOS*

*7. [1.2] EMIR, Kadir - PASEKA, Jan. Kalmbach implication in orthomodular posets. In Proceedings of The International Symposium on Multiple-Valued Logic, 2023-01-01, 2023-May, pp. 18-23. ISSN 0195623X. Dostupné na:* [*https://doi.org/10.1109/ISMVL57333.2023.00015*](https://doi.org/10.1109/ismvl57333.2023.00015)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA15 | RIEČAN, Beloslav - NEUBRUNN, Tibor. Integral, measure, and ordering. Dordrecht : Kluwer Academic Publishers, 1997. ISBN 80–88683–18–1 |

Citácie:

*1. [1.2] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. On EMV-algebras with square roots. In Journal of Mathematical Analysis and Applications, 2023-08-15, 524, 2, pp. ISSN 0022247X. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127113*](https://doi.org/10.1016/j.jmaa.2023.127113)*, Registrované v: SCOPUS*

*2. [1.2] KALINA, Martin. Bipolar OWA Operators with Continuous Input Function. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13890 LNCS, pp. 106-117. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33498-6\_7*](https://doi.org/10.1007/978-3-031-33498-6_7)*, Registrované v: SCOPUS*

*3. [1.2] SINGH, Akhilesh Kumar. Exponential entropy on sequential effect algebras. In Reports on Mathematical Physics, 2023-08-01, 92, 1, pp. 49-58. ISSN 00344877. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(23)00054-X*](https://doi.org/10.1016/s0034-4877(23)00054-x)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA16 | RIEČAN, Beloslav - BOCCUTO, A. - VRÁBELOVÁ, M. Kurzweil-Henstock Integral in Riesz Spaces. Bentham Science Publishers, ltd, 2009. 224 s. ISBN 978-1-60805-003-1 |

Citácie:

*1. [1.2] KALITA, Hemanta - HAZARIKA, Bipan. Kluvánek–Lewis–Henstock integral in Banach spaces. In Bollettino dell';Unione Matematica Italiana, 2023-01-01, pp. ISSN 19726724. Dostupné na:* [*https://doi.org/10.1007/s40574-023-00403-6*](https://doi.org/10.1007/s40574-023-00403-6)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA17 | STRAUCH, Oto - PORUBSKÝ, Š. Distribution of Sequences: A Sampler. Frankfurt am Main : Peter Lang, 2005. 569 p. ISBN 3-631-54013-2 |

Citácie:

*1. [1.2] BERGER, Arno - RAHMATIDEHKORDI, Ardalan. Circling the uniform distribution. In Journal of Mathematical Analysis and Applications, 2023-11-15, 527, 2, pp. ISSN 0022247X. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127495*](https://doi.org/10.1016/j.jmaa.2023.127495)*, Registrované v: SCOPUS*

*2. [1.2] MISKA, Piotr - TÓTH, János T. Characteristics of Distributions of Sets and Their (R)- and (N)-Denseness. In Results in Mathematics, 2023-04-01, 78, 2, pp. ISSN 14226383. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01830-1*](https://doi.org/10.1007/s00025-022-01830-1)*, Registrované v: SCOPUS*

*3. [1.2] PAŠTÉKA, Milan. Metrics on ℕ and the Distribution of Sequences. In Tatra Mountains Mathematical Publications, 2022-12-01, 82, 2, pp. 29-52. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2022-0017*](https://doi.org/10.2478/tmmp-2022-0017)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AAA18 | WIMMER, Gejza - ALTMANN, G. Thesaurus of univariate discrete probability distributions. Essen : STAMM, 1999 |

Citácie:

*1. [1.1] AGU, Friday I. - MACUTEK, Jan - SZUCS, Gabor. A Simple Estimation of Parameters for Discrete Distributions from the Schroter Family. In STATISTIKA-STATISTICS AND ECONOMY JOURNAL, 2023, vol. 103, no. 2, pp. 246-251. ISSN 0322-788X. Dostupné na:* [*https://doi.org/10.54694/stat.2022.42*](https://doi.org/10.54694/stat.2022.42)*, Registrované v: WOS*

*2. [1.1] GHORBANI, Mehran - SAFFARZADEH, Mahmoud - NADERAN, Ali. Crash Prediction Modeling for Horizontal Curves on Two-Lane, Two-Way Rural Highways Based on Consistency and Self-Explaining Characteristics Using Zero-Truncated Data. In KSCE JOURNAL OF CIVIL ENGINEERING, 2023, vol. 27, no. 8, pp. 3567-3580. ISSN 1226-7988. Dostupné na:* [*https://doi.org/10.1007/s12205-023-0501-6*](https://doi.org/10.1007/s12205-023-0501-6)*, Registrované v: WOS*

*3. [1.1] MACUTEK, Jan. Why Do Parameter Values in the Zipf-Mandelbrot Distribution Sometimes Explode? In JOURNAL OF QUANTITATIVE LINGUISTICS, 2022, vol. 29, no. 4, pp. 413-424. ISSN 0929-6174. Dostupné na:* [*https://doi.org/10.1080/09296174.2021.1887613*](https://doi.org/10.1080/09296174.2021.1887613)*, Registrované v: WOS*

*4. [1.1] ZAMECNIK, L. Investigations of Explanatory Strategies in Linguistics. In INVESTIGATIONS OF EXPLANATORY STRATEGIES IN LINGUISTICS, 2023, vol., no., pp. 1-287., Registrované v: WOS*

*5. [1.1] ZHU, Jieqiang - JIANG, Jingyang. Synergetic Properties of Lexical Structures in Chinese and English. In JOURNAL OF QUANTITATIVE LINGUISTICS, 2023, vol. 30, no. 2, pp. 204-230. ISSN 0929-6174. Dostupné na:* [*https://doi.org/10.1080/09296174.2023.2213107*](https://doi.org/10.1080/09296174.2023.2213107)*, Registrované v: WOS*

*6. [1.1] ZORNIG, Peter - BERG, Thomas. Unifying Models for Word Length Distributions Based on Types and Tokens. In JOURNAL OF QUANTITATIVE LINGUISTICS, 2023, vol. 30, no. 2, pp. 167-182. ISSN 0929-6174. Dostupné na:* [*https://doi.org/10.1080/09296174.2023.2202061*](https://doi.org/10.1080/09296174.2023.2202061)*, Registrované v: WOS*

*7. [1.2] SANADA, Haruko. Explorative study on the Menzerath-Altmann law regarding style, text length, and distributions of data points. In Quantitative Approaches to Universality and Individuality in Language, 2022-11-07,   
pp. 161-177. Dostupné na:* [*https://doi.org/10.1515/9783110763560-013*](https://doi.org/10.1515/9783110763560-013)*, Registrované v: SCOPUS*

**AAB Vedecké monografie vydané v domácich vydavateľstvách**

|  |  |
| --- | --- |
| AAB01 | STRAUCH, Oto. Distribution of sequences: a theory. Bratislava : Veda ; Praha : Academia, 2019. 591 p. Názov z internetu. ISBN 978-80-224-1734-1 (Vega č. 2/0109/18 : Teória čísel a jej aplikácie) |

Citácie:

*1. [1.2] BERGER, Arno - RAHMATIDEHKORDI, Ardalan. Circling the uniform distribution. In Journal of Mathematical Analysis and Applications, 2023-11-15, 527, 2, pp. ISSN 0022247X. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127495*](https://doi.org/10.1016/j.jmaa.2023.127495)*, Registrované v: SCOPUS*

*2. [1.2] MISKA, Piotr - TÓTH, János T. Characteristics of Distributions of Sets and Their (R)- and (N)-Denseness. In Results in Mathematics, 2023-04-01, 78, 2, pp. ISSN 14226383. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01830-1*](https://doi.org/10.1007/s00025-022-01830-1)*, Registrované v: SCOPUS*

*3. [1.2] PAŠTÉKA, Milan. Metrics on ℕ and the Distribution of Sequences. In Tatra Mountains Mathematical Publications, 2022-12-01, 82, 2, pp. 29-52. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2022-0017*](https://doi.org/10.2478/tmmp-2022-0017)*, Registrované v: SCOPUS*

*4. [4.1] DUTYKH, Denys - VERNER-GAUGRY, Jean-Louis. On a Class of Lacunary Almost Newman Polynomials Modulo and Density Theorems. In Uniform Distribution Theory, 2022, ISSN 2309-5377, Vol. 17, no. 1, 2022, p. 29-54, DOI 10.2478/UDT-2022-0007.*

|  |  |
| --- | --- |
| AAB02 | ŠTAFURA, Andrej - BARTA, Peter - HALUŠKA, Ján - ČULÍK, Martin - PETŐCZOVÁ, Janka - NAGY, Štefan - NAGY, Štefan. Historické organové pozitívy na Slovensku = Historical Positive Organs within the Territory of Slovakia. Recenzenti: Marianna Bárdiová, Anna Danihelová. 1. vyd. Revúca : Quirinus, občianske združenie : Ústav materiálov a mechaniky strojov SAV, v.v.i., 2022. 112 s. ISBN 978-80-972541-4-8 (VEGA č. 2/0106/19 : Drevený píšťalový fond historických organových pozitívov na Slovensku. VEGA č. 2/0012/21 : Migrácia hudobníkov a transmisia hudby v 17. – 19. storočí na Slovensku a v strednej Európe) |

Citácie:

*1. [1.2] Almanza, V., Le Conte, S., Vaiedelich, S., Foltête, E., Viala, R., Arciniegas Mosquera, A.F., Martinez, L., Wilkie-Chancellier, N., Serfaty, S., Placet, V., Cogan, S. Physics-based simulations for assessing the playability of heritage musical instruments: Impact of the soundboard assembly process on its low frequency behavior.In Applied Acoustics, November 2023, vol. 214, art. no. 109672. ISSN: 0003682X, E-ISSN:1872-910X. DOI: 10.1016/j.apacoust.2023.109672, Registrované v: Scopus*

|  |  |
| --- | --- |
| AAB03 | WIMMER, Gejza - ALTMANN, Gabriel - HŘEBÍČEK, L. - ONDREJOVIČ, Slavomír - WIMMEROVÁ, S. Úvod do analýzy textov. Bratislava : Veda, 2003. 344 s. ISBN 80-224-0756-9 |

Citácie:

*1. [3.1] Demidovich, I. M. Methods of Intellectual Text Analysis. In Science and Transport Progress, 2023, 3(103), 31–43.* [*https://doi.org/10.15802/stp2023/295252*](https://doi.org/10.15802/stp2023/295252)

**ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| ABC01 | BOSÁK, Juraj - ROSA, A. - ZNÁM, Š. On the decomposition of complete graphs into factors with given diameters. In Theory of Graphs, Proceedings of Colloquium, Tihany, 1966. - New York : Academic Press, 1968, s. 37-66. |

Citácie:

*1. [1.2] BUDDEN, Mark. Ramsey Numbers for Connected 2-Colorings of Complete Graphs. In Theory and Applications of Graphs, 2023-01-01, 10, 1, pp. Dostupné na:* [*https://doi.org/10.20429/tag.2023.10107*](https://doi.org/10.20429/tag.2023.10107)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ABC02 | FEČKAN, Michal. Note on periodic and asymptotically periodic solutions of fractional differential equations. In Mathematics Applies to Engineering, Modelling, and Social Issues : studies in Systems, Decision and Control. 200. - Cham : Springer, 2019, p. 153-185. ISBN 978-3-030-12231-7. ISSN 2198-4182. Dostupné na: <https://doi.org/10.1007/978-3-319-99918-0_6> |

Citácie:

*1. [1.2] BOUZERAA, S. E.I. - BOUOUDEN, R. - ABDELOUAHAB, M. S. Fractional logistic map with fixed memory length. In International Journal of General Systems, 2023-01-01, 52, 6, pp. 653-663. ISSN 03081079. Dostupné na:* [*https://doi.org/10.1080/03081079.2023.2201001*](https://doi.org/10.1080/03081079.2023.2201001)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ABC03 | RIEČAN, Beloslav - MUNDICI, D. Probability on MV-algebras. In Handbook of Measure Theory, Volume II. - Amsterdam : Elsevier Science, 2002, s. 869-909. ISBN 978-0-444-50263-6. |

Citácie:

*1. [1.1] ZHOU, Xiang - ZHENG, Zhu-Jun. Relations between the observational entropy and Renyi information measures. In QUANTUM INFORMATION PROCESSING, 2022, vol. 21, no. 6, pp. ISSN 1570-0755. Dostupné na:* [*https://doi.org/10.1007/s11128-022-03570-1*](https://doi.org/10.1007/s11128-022-03570-1)*, Registrované v: WOS*

*2. [1.2] WANG, Juntao - KANG, Mengna - FU, Xuesong - LI, Fei. State monadic residuated lattices and their corresponding filters. In Journal of Intelligent and Fuzzy Systems, 2023-01-01, 44, 2, pp. 1793-1805. ISSN 10641246. Dostupné na:* [*https://doi.org/10.3233/JIFS-213527*](https://doi.org/10.3233/jifs-213527)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ABC04 | RIEČAN, Beloslav. Analysis of fuzzy logic models. In Intelligent systems. - INTECH, 2012, s. 219-244. ISBN 978-953-51-0054-6. |

Citácie:

*1. [1.2] ČUNDERLÍKOVÁ, Katarína. Convergence of Functions of Several Intuitionistic Fuzzy Observables. In Lecture Notes in Networks and Systems, 2023-01-01, 793 LNNS, pp. 39-48. ISSN 23673370. Dostupné na:* [*https://doi.org/10.1007/978-3-031-45069-3\_5*](https://doi.org/10.1007/978-3-031-45069-3_5)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ABC05 | WIMMER, Gejza. The type-token relation. In Quantitative Linguistics, An International Handbook. - Berlin : Walter de Gruyter, 2005, s. 361-368. ISBN 978-3-11-015578-5. |

Citácie:

*1. [3.1] CORALIC, Z. - SELMANOVIC, G. KOLLOKATIONEN MIT DER BASIS LEISTUNG IN DEN ZEITUNGSRESSORTS POLITIK, POPULÄRWISSENSCHAFT UND SPORT. In Post Scriptum, 2023, ISSN: 2232-714X, Vol. 13, pp. 249-260, dostupné na* [*https://doi.org/10.52580/issn.2232-8556.2023.12.13.249*](https://doi.org/10.52580/issn.2232-8556.2023.12.13.249)

|  |  |
| --- | --- |
| ABC06 | WIMMER, Gejza - ALTMANN, G. Unified derivation of some linguistics laws. In Quantitative Lnguistics, An International Handbook. - Berlin : Walter de Gruyter, 2005, s. 791-807. ISBN 978-3-11-015578-5. |

Citácie:

*1. [1.1] HOU, Renkui - HUANG, Chu-Ren - AHRENS, Kathleen. Regional varieties and diachronic changes in Chinese political discourse. In HUMANITIES & SOCIAL SCIENCES COMMUNICATIONS, 2022, vol. 9, no. 1, pp. Dostupné na:* [*https://doi.org/10.1057/s41599-022-01488-8*](https://doi.org/10.1057/s41599-022-01488-8)*, Registrované v: WOS*

*2. [1.1] YIH, Tsy - LIU, Haitao. The meaning distributions on different levels of granularity. In GLOTTOMETRICS, 2023, vol. 54, no., pp. 13-38. ISSN 1617-8351. Dostupné na:* [*https://doi.org/10.53482/2023\_54\_405*](https://doi.org/10.53482/2023_54_405)*, Registrované v: WOS*

*3. [1.1] ZAMECNIK, L. Investigations of Explanatory Strategies in Linguistics. In INVESTIGATIONS OF EXPLANATORY STRATEGIES IN LINGUISTICS, 2023, vol., no., pp. 1-287., Registrované v: WOS*

*4. [1.1] ZHOU, Haiyan - JIANG, Yue - WANG, Letao. Are Daojing and Dejing stylistically independent of each other: A stylometric analysis with activity and descriptivity. In DIGITAL SCHOLARSHIP IN THE HUMANITIES, 2023, vol. 38, no. 1, pp. 434-450. ISSN 2055-7671. Dostupné na:* [*https://doi.org/10.1093/llc/fqac042*](https://doi.org/10.1093/llc/fqac042)*, Registrované v: WOS*

*5. [3.1] ZÁMEČNÍK, L. The Role of Philosophy of Science in Quantitative Linguistics. In Linguistic Frontiers, 2022, Vol. 5, Issue 1,* [*https://doi.org/10.2478/lf-2022-0003*](https://doi.org/10.2478/lf-2022-0003)

**ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADCA01 | ALI, Muhammad Aamir - ZHANG, Zhiyue - FEČKAN, Michal. On Some Error Bounds for Milne´s Formula in Fractional Calculus. In Mathematics, 2023, vol. 11, art. nr. 146. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11010146> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] BIN-MOHSIN, B. - JAVED, M.Z. - AWAN, M.U. - KHAN, A.G. - CESARANO, C. - NOOR, M.A. Exploration of Quantum Milne-Mercer-Type Inequalities with Applications. In SYMMETRY-BASEL. MAY 16 2023, vol. 15, no. 5. Dostupné na:* [*https://doi.org/10.3390/sym15051096*](https://doi.org/10.3390/sym15051096)*, Registrované v: WOS*

*2. [1.1] LV, X.L. - FENG, X.F. Identifying a Space-Dependent Source Term and the Initial Value in a Time Fractional Diffusion-Wave Equation. In MATHEMATICS. MAR 2023, vol. 11, no. 6. Dostupné na:* [*https://doi.org/10.3390/math11061521*](https://doi.org/10.3390/math11061521)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA02 | AUBRUN, Guillaume - LAMI, Ludovico - PALAZUELOS, Carlos - PLÁVALA, Martin. Entangleability of Cones. In Geometric and functional analysis, 2021, vol. 31, no. 1, p. 1-25. (2020: 2.148 - IF, Q1 - JCR, 3.952 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1016-443X. Dostupné na: <https://doi.org/10.1007/s00039-021-00565-5> |

Citácie:

*1. [1.1] ARAI, H. - HAYASHI, M. Pseudo standard entanglement structure cannot be distinguished from standard entanglement structure. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, FEB 1 2023, vol. 25, no. 2. Dostupné na:* [*https://doi.org/10.1088/1367-2630/acb565*](https://doi.org/10.1088/1367-2630/acb565)*, Registrované v: WOS*

*2. [1.1] BARNUM, H. - GRAYDON, M.A. - WILCE, A. Locally Tomographic Shadows (Extended Abstract). In ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE. ISSN 2075-2180, 2023, vol. 384, p. 47-57. Dostupné na:* [*https://doi.org/10.4204/EPTCS.384.3*](https://doi.org/10.4204/eptcs.384.3)*, Registrované v: WOS*

*3. [1.1] BLUHM, A. - NECHITA, I. - SCHMIDT, S. Polytope compatibility-From quantum measurements to magic squares. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, DEC 1 2023, vol. 64, no. 12. Dostupné na:* [*https://doi.org/10.1063/5.0165424*](https://doi.org/10.1063/5.0165424)*, Registrované v: WOS*

*4. [1.1] LAMI, Ludovico - GOLDWATER, Daniel - ADESSO, Gerardo. A post-quantum associative memory. In JOURNAL OF PHYSICS A-MATHEMATICAL   
  
AND THEORETICAL, 2023, vol. 56, no. 45, art. nr. 455304. ISSN 1751-8113. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acfeb7*](https://doi.org/10.1088/1751-8121/acfeb7)*, Registrované v: WOS*

*5. [1.1] MIYADERA, Takayuki - TAKAKURA, Ryo. Programming of channels in generalized probabilistic theories. In JOURNAL OF MATHEMATICAL PHYSICS, 2023, vol. 64, no. 4, art nr. 042201. ISSN 0022-2488. Dostupné na:* [*https://doi.org/10.1063/5.0101198*](https://doi.org/10.1063/5.0101198)*, Registrované v: WOS*

*6. [1.1] SELBY, J.H. - SCHMID, D. - WOLFE, E. - SAINZ, A.B. - KUNJWAL, R. - SPEKKENS, R.W. Accessible fragments of generalized probabilistic theories, cone equivalence, and applications to witnessing nonclassicality. In PHYSICAL REVIEW A. ISSN 2469-9926, JUN 6 2023, vol. 107, no. 6. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.062203*](https://doi.org/10.1103/physreva.107.062203)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA03 | BALOGH, József - KOCHOL, Martin - PLUHÁR, András - YU, Xingxing. Covering planar graphs with forests. In Journal of Combinatorial Theory, Series B, 2005, vol. 94, p. 147-158. ISSN 0095-8956. |

Citácie:

*1. [1.1] CRANSTON, D.W. - LAFAYETTE, H. The t-tone chromatic number of classes of sparse graphs. In AUSTRALASIAN JOURNAL OF COMBINATORICS. ISSN 2202-3518, 2023, vol. 86, 3, p. 458-476., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA04 | BATTELLI, F. - FEČKAN, Michal. Bifurcation and chaos near sliding homoclinics. In Journal of differential equations, 2010, vol. 248, no. 9, p. 2227-2262. (2009: 1.426 - IF, Q1 - JCR, 2.371 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2009.11.003> |

Citácie:

*1. [1.1] LI, S.B. - ZHANG, C.X. - KOU, L.Y. A new vibro-impact bistable oscillator with an adjustable rigid wall. In PHYSICS LETTERS A. ISSN 0375-9601, JUL 5 2023, vol. 475. Dostupné na:* [*https://doi.org/10.1016/j.physleta.2023.128861*](https://doi.org/10.1016/j.physleta.2023.128861)*, Registrované v: WOS*

*2. [1.1] PENG, L.P. - LI, Y. - SUN, D. Piecewise Smooth Perturbations to a Class of Planar Cubic Centers. In INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS. ISSN 0218-1274, MAY 2023, vol. 33, no. 06. Dostupné na:* [*https://doi.org/10.1142/S0218127423500682*](https://doi.org/10.1142/s0218127423500682)*, Registrované v: WOS*

*3. [1.1] SUN, D. - GAO, Y.F. - PENG, L.P. - FU, L. Limit cycles in piecewise smooth perturbations of a class of cubic differential systems. In ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS. ISSN 1417-3875, 2023, no. 49, p. 1-26. Dostupné na:* [*https://doi.org/10.14232/ejqtde.2023.1.49*](https://doi.org/10.14232/ejqtde.2023.1.49)*, Registrované v: WOS*

*4. [1.1] WU, T.T. - HUAN, S.M. - LIU, X.J. Sliding homoclinic orbits and bifurcations of three-dimensional piecewise affine systems. In NONLINEAR DYNAMICS. ISSN 0924-090X, MAY 2023, vol. 111, no. 10, p. 9011-9024. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08301-4*](https://doi.org/10.1007/s11071-023-08301-4)*, Registrované v: WOS*

*5. [1.1] YANG, Q.G. - HUANG, Y.S. Chaotic Dynamics Arising from Sliding Heteroclinic Cycles in 3D Filippov Systems. In INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS. ISSN 0218-1274, JAN 2023, vol. 33, no. 01. Dostupné na:* [*https://doi.org/10.1142/S0218127423500098*](https://doi.org/10.1142/s0218127423500098)*, Registrované v: WOS*

*6. [1.2] JIANG, Jinkai - DU, Zhengdong. Heteroclinic bifurcation in a quasi-periodically excited rigid rocking block with two frequencies. In Soil Dynamics and Earthquake Engineering, 2023-02-01, 165, pp. ISSN 02677261. Dostupné na:* [*https://doi.org/10.1016/j.soildyn.2022.107677*](https://doi.org/10.1016/j.soildyn.2022.107677)*, Registrované v: SCOPUS*

*7. [1.2] LI, Shuangbao - SUN, Ran. Melnikov analysis of subharmonic motions for a class of bistable vibro-impact oscillators. In Nonlinear Dynamics, 2023-01-01, 111, 2, pp. 1047-1069. ISSN 0924090X. Dostupné na:* [*https://doi.org/10.1007/s11071-022-07902-9*](https://doi.org/10.1007/s11071-022-07902-9)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA05 | BATTELLI, F. - FEČKAN, Michal. On the chaotic behaviour of discontinuous systems. In Journal of Dynamics and Differential Equations, 2011, vol. 23, no. 3, p. 495-540. (2010: 1.375 - IF, Q1 - JCR, 1.576 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-010-9197-7> |

Citácie:

*1. [1.1] GJATA, O. - ZANOLIN, F. An Application of the Melnikov Method to a Piecewise Oscillator. In CONTEMPORARY MATHEMATICS. ISSN 2705-1064, 2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.37256/cm.4220232160*](https://doi.org/10.37256/cm.4220232160)*, Registrované v: WOS*

*2. [1.2] JIANG, Jinkai - DU, Zhengdong. Heteroclinic bifurcation in a quasi-periodically excited rigid rocking block with two frequencies. In Soil Dynamics and Earthquake Engineering, 2023-02-01, 165, pp. ISSN 02677261. Dostupné na:* [*https://doi.org/10.1016/j.soildyn.2022.107677*](https://doi.org/10.1016/j.soildyn.2022.107677)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA06 | BATTELLI, Flaviano - FEČKAN, Michal\*\*. On the exponents of exponential dichotomies. In Mathematics, 2020, vol. 8, no. 651, p. 1-13. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8040651> |

Citácie:

*1. [1.2] DRAGIČEVIĆ, Davor. On the Robustness Property of Nonuniform Exponential Dichotomies. In Springer Proceedings in Mathematics and Statistics, 2023-01-01, 416, pp. 183-198. ISSN 21941009. Dostupné na:* [*https://doi.org/10.1007/978-3-031-25225-9\_9*](https://doi.org/10.1007/978-3-031-25225-9_9)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA07 | BATTELLI, Flaviano\*\* - FEČKAN, Michal. General Melnikov Approach to Implicit ODE´s. In Journal of Dynamics and Differential Equations, 2022, vol. 34, p. 365-397. (2021: 1.819 - IF, Q1 - JCR, 1.173 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-020-09859-y> |

Citácie:

*1. [1.1] GJATA, O. - ZANOLIN, F. An Application of the Melnikov Method to a Piecewise Oscillator. In CONTEMPORARY MATHEMATICS. ISSN 2705-1064, 2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.37256/cm.4220232160*](https://doi.org/10.37256/cm.4220232160)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA08 | BATTELLI, Flaviano - FEČKAN, Michal\*\*. On the Poincare-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations. In Journal of differential equations, 2020, vol. 268, p. 3725-3748. (2019: 2.192 - IF, Q1 - JCR, 2.283 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2019.10.014> |

Citácie:

*1. [1.2] LI, Zhengkang - LIU, Xingbo. Impact limit cycles in the planar piecewise linear hybrid systems. In Communications in Nonlinear Science and Numerical Simulation, 2023-05-01, 119, pp. ISSN 10075704. Dostupné na:* [*https://doi.org/10.1016/j.cnsns.2022.107074*](https://doi.org/10.1016/j.cnsns.2022.107074)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA09 | BATTELLI, Flaviano - FEČKAN, Michal. Nonsmooth homoclinic orbits, Melnikov functions and chaos in discontinuous systems. In Physica D: Nonlinear Phenomena, 2012, vol. 241, no. 22, p. 1962-1975. (2011: 1.594 - IF, Q1 - JCR, 0.982 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0167-2789. Dostupné na: <https://doi.org/10.1016/j.physd.2011.05.018> |

Citácie:

*1. [1.1] GJATA, O. - ZANOLIN, F. An Application of the Melnikov Method to a Piecewise Oscillator. In CONTEMPORARY MATHEMATICS. ISSN 2705-1064,   
  
2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.37256/cm.4220232160*](https://doi.org/10.37256/cm.4220232160)*, Registrované v: WOS*

*2. [1.1] LAVROVA, S. - KUDRYASHOV, N. Suppression of chaos in the periodically perturbed generalized complex Ginzburg-Landau equation by means of parametric excitation. In OPTICAL AND QUANTUM ELECTRONICS. ISSN 0306-8919, OCT 2023, vol. 55, no. 10. Dostupné na:* [*https://doi.org/10.1007/s11082-023-05194-w*](https://doi.org/10.1007/s11082-023-05194-w)*, Registrované v: WOS*

*3. [1.1] LI, Y.X. - WEI, Z.C. - ZHANG, W. - KAPITANIAK, T. Melnikov-type method for chaos in a class of hybrid piecewise-smooth systems with impact and noise excitation under unilateral rigid constraint. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, OCT 2023, vol. 122, p. 506-523. Dostupné na:* [*https://doi.org/10.1016/j.apm.2023.06.015*](https://doi.org/10.1016/j.apm.2023.06.015)*, Registrované v: WOS*

*4. [1.1] WANG, C.Y. - WANG, M.Q. - XING, W.C. - SHI, S.X. Bifurcation and Chaotic Behavior of Duffing System with Fractional-Order Derivative and Time Delay. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080638*](https://doi.org/10.3390/fractalfract7080638)*, Registrované v: WOS*

*5. [1.2] JIANG, Jinkai - DU, Zhengdong. Heteroclinic bifurcation in a quasi-periodically excited rigid rocking block with two frequencies. In Soil Dynamics and Earthquake Engineering, 2023-02-01, 165, pp. ISSN 02677261. Dostupné na:* [*https://doi.org/10.1016/j.soildyn.2022.107677*](https://doi.org/10.1016/j.soildyn.2022.107677)*, Registrované v: SCOPUS*

*6. [1.2] LI, Shuangbao - SUN, Ran. Melnikov analysis of subharmonic motions for a class of bistable vibro-impact oscillators. In Nonlinear Dynamics, 2023-01-01, 111, 2, pp. 1047-1069. ISSN 0924090X. Dostupné na:* [*https://doi.org/10.1007/s11071-022-07902-9*](https://doi.org/10.1007/s11071-022-07902-9)*, Registrované v: SCOPUS*

*7. [1.2] LI, Shuqun - ZHOU, Liangqiang. Chaos analysis for a class of impulse Duffing-van der Pol system. In Zeitschrift fur Naturforschung Section A Journal of Physical Sciences, 2023-05-01, 78, 5, pp. 395-403. ISSN 09320784. Dostupné na:* [*https://doi.org/10.1515/zna-2023-0005*](https://doi.org/10.1515/zna-2023-0005)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA10 | BATTELLI, Flaviano - FEČKAN, Michal. Homoclinic trajectories in discontinuous systems. In Journal of Dynamics and Differential Equations, 2008, vol. 20, no. 2, p. 337-376. (2007: 0.639 - SJR, Q3 - SJR). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-007-9087-9> |

Citácie:

*1. [1.1] LI, S.B. - SUN, R. Melnikov analysis of subharmonic motions for a class of bistable vibro-impact oscillators. In NONLINEAR DYNAMICS. ISSN 0924-090X, JAN 2023, vol. 111, no. 2, p. 1047-1069. Dostupné na:* [*https://doi.org/10.1007/s11071-022-07902-9*](https://doi.org/10.1007/s11071-022-07902-9)*, Registrované v: WOS*

*2. [1.1] LI, Y.X. - WEI, Z.C. - ZHANG, W. - KAPITANIAK, T. Melnikov-type method for chaos in a class of hybrid piecewise-smooth systems with impact and noise excitation under unilateral rigid constraint. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, OCT 2023, vol. 122, p. 506-523. Dostupné na:* [*https://doi.org/10.1016/j.apm.2023.06.015*](https://doi.org/10.1016/j.apm.2023.06.015)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA11 | BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, Marián. Dynamic ordering for a parallel block-Jacobi SVD algorithm. In Parallel Computing, 2002, vol. 28, no. 2, p. 243-262. (2001: 0.572 - IF, Q2 - JCR, 0.424 - SJR, Q2 - SJR, karentované - CCC). (2002 - Current Contents). ISSN 0167-8191. Dostupné na: [https://doi.org/10.1016/S0167-8191(01)00138-7](https://doi.org/10.1016/s0167-8191(01)00138-7) |

Citácie:

*1. [1.1] NOVAKOVIC, V. VECTORIZATION OF A THREAD-PARALLEL JACOBI SINGULAR VALUE DECOMPOSITION METHOD. In SIAM JOURNAL ON SCIENTIFIC COMPUTING. ISSN 1064-8275, 2023, vol. 45, no. 3, p. C73-C100. Dostupné na:* [*https://doi.org/10.1137/22M1478847*](https://doi.org/10.1137/22m1478847)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA12 | BLUHM, Andreas - JENČOVÁ, Anna - NECHITA, Ion. Incompatibility in General Probabilistic Theories, Generalized Spectrahedra, and Tensor Norms. In Communications in Mathematical Physics, 2022, vol. 393, p. 1125-1198. (2021: 2.361 - IF, Q1 - JCR, 1.274 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0010-3616. Dostupné na: <https://doi.org/10.1007/s00220-022-04379-w> |

Citácie:

*1. [1.1] PLAVALA, Martin. General probabilistic theories: An introduction. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, 2023, vol. 1033, no., pp. 1-64. ISSN 0370-1573. Dostupné na:* [*https://doi.org/10.1016/j.physrep.2023.09.001*](https://doi.org/10.1016/j.physrep.2023.09.001)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA13 | BOHNER, Martin - GRAEF, John R.\*\* - JADLOVSKÁ, Irena. Asymptotic Properties of Kneser Solutions to Third-Order Delay Differential Equations. In Journal of Applied Analysis and Computation, 2022, vol. 12, no. 5, p. 2024-2032. (2021: 1.429 - IF, Q2 - JCR, 0.433 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2156-907X. Dostupné na: <https://doi.org/10.11948/20210439> |

Citácie:

*1. [1.1] SUN, Y.B. - ZHAO, Y.G. - XIE, Q.Q. Oscillation and Asymptotic Behavior of the Third-Order Neutral Differential Equation with Damping and Distributed Deviating Arguments. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, JUN 2023, vol. 22, no. 2. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00733-4*](https://doi.org/10.1007/s12346-022-00733-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA14 | BOHNER, Martin - GRACE, Said R. - JADLOVSKÁ, Irena - KILIC, Nurten. Nonoscillatory Solutions of Higher-Order Fractional Differential Equations. In Mediterranean Journal of Mathematics, 2022, vol. 19, no. 3, art. no. 142. (2021: 1.305 - IF, Q2 - JCR, 0.593 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-022-02047-w> |

Citácie:

*1. [1.1] BARTUSEK, M. - DOSLA, Z. Oscillation of higher order fractional differential equations. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, FEB 2023, vol. 26, no. 1, p. 336-350. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00108-1*](https://doi.org/10.1007/s13540-022-00108-1)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA15 | BOHNER, Martin\*\* - GRACE, Said R. - JADLOVSKÁ, Irena. Sharp results for oscillation of second-order neutral delay differential equations. In Electronic Journal of Qualitative Theory of Differential Equations, 2023, vol. 4, p. 1-23. (2022: 1.1 - IF, Q2 - JCR, 0.419 - SJR, Q3 - SJR). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232.ejqtde.2023.1.4> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] ALMARRI, B. - MOAAZ, O. Improved Properties of Positive Solutions of Higher Order Differential Equations and Their Applications in Oscillation Theory. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040924*](https://doi.org/10.3390/math11040924)*, Registrované v: WOS*

*2. [1.1] MASOOD, F. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A. New Conditions for Testing the Asymptotic Behavior of Solutions of Odd-Order Neutral Differential Equations with Multiple Delays. In AXIOMS. JUL 2023, vol. 12, no. 7. Dostupné na:* [*https://doi.org/10.3390/axioms12070658*](https://doi.org/10.3390/axioms12070658)*, Registrované v: WOS*

*3. [1.1] MOAAZ, O. - ALBALAWI, W. New Results for the Investigation of the Asymptotic Behavior of Solutions of Nonlinear Perturbed Differential Equations. In AXIOMS. SEP 2023, vol. 12, no. 9. Dostupné na:* [*https://doi.org/10.3390/axioms12090841*](https://doi.org/10.3390/axioms12090841)*, Registrované v: WOS*

*4. [1.1] MOAAZ, O. - CESARANO, C. - ALMARRI, B. An Improved Relationship between the Solution and Its Corresponding Function in Fourth-Order Neutral Differential Equations and Its Applications. In MATHEMATICS. APR 2023, vol. 11, no. 7. Dostupné na:* [*https://doi.org/10.3390/math11071708*](https://doi.org/10.3390/math11071708)*, Registrované v: WOS*

*5. [1.1] NABIH, A. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - ELABBASY, E.M. Fourth-Order Neutral Differential Equation: A Modified Approach to Optimizing Monotonic Properties. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204380*](https://doi.org/10.3390/math11204380)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA16 | BORZOOEI, R.A.\*\* - DVUREČENSKIJ, Anatolij - SHARAFI, A.H. Generalized EMV-effect algebras. In International Journal of Theoretical Physics, 2018, vol. 57, no. 8, p. 2267-2279. (2017: 0.968 - IF, Q3 - JCR, 0.285 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-018-3750-2> |

Citácie:

*1. [1.1] LIU, H.X. On topology of maximal ideals of EBL-algebras. In SOFT COMPUTING. ISSN 1432-7643, MAY 2022, vol. 26, no. 10, p. 4541-4552. Dostupné na:* [*https://doi.org/10.1007/s00500-022-06860-z*](https://doi.org/10.1007/s00500-022-06860-z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA17 | BORZOOEI, R.A.\*\* - DVUREČENSKIJ, Anatolij - SHARAFI, A.H. Material implications in lattice effect algebras. In Information Sciences, 2018, vol. 433-434, p. 233-240. (2017: 4.305 - IF, Q1 - JCR, 1.635 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2017.12.049> |

Citácie:

*1. [1.1] MAO, X.Y. - TEMUER, C. - ZHOU, H.J. Sugeno Integral Based on Overlap Function and Its Application to Fuzzy Quantifiers and Multi-Attribute Decision-Making. In AXIOMS. AUG 2023, vol. 12, no. 8. Dostupné na:* [*https://doi.org/10.3390/axioms12080734*](https://doi.org/10.3390/axioms12080734)*, Registrované v: WOS*

*2. [1.1] SHENG, N. - ZHANG, X.H. Regular Partial Residuated Lattices and Their Filters. In MATHEMATICS. JUL 2022, vol. 10, no. 14. Dostupné na:* [*https://doi.org/10.3390/math10142429*](https://doi.org/10.3390/math10142429)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA18 | BOSÁK, Juraj - KOTZIG, A. - ZNÁM, Š. Strongly geodetic graphs. In Journal of Combinatorial Theory, 1968, vol. 5, p. 170-176. ISSN 0095-8956. |

Citácie:

*1. [1.1] CIZMA, Daniel - LINIAL, Nati. Geodesic Geometry on Graphs. In DISCRETE & COMPUTATIONAL GEOMETRY, 2022, vol. 68, no. 1, pp. 298-347. ISSN 0179-5376. Dostupné na:* [*https://doi.org/10.1007/s00454-021-00345-w*](https://doi.org/10.1007/s00454-021-00345-w)*, Registrované v: WOS*

*2. [1.1] CIZMA, Daniel - LINIAL, Nati. Irreducible nonmetrizable path systems in graphs. In JOURNAL OF GRAPH THEORY, 2023, vol. 102, no. 1, pp. 5-14. ISSN 0364-9024. Dostupné na:* [*https://doi.org/10.1002/jgt.22854*](https://doi.org/10.1002/jgt.22854)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA19 | BRZOZOWSKI, J. A. - JIRÁSKOVÁ, Galina - ZOU, Ch. Quotient Complexity of Closed Languages. In Theory of Computing Systems, 2014, vol. 54, no. 2, p. 277-292. (2013: 0.452 - IF, Q3 - JCR, 0.730 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1432-4350. Dostupné na: <https://doi.org/10.1007/s00224-013-9515-7> |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

*2. [1.1] DASSOW, J. - TRUTHE, B. Relations of contextual grammars with strictly locally testable selection languages. In RAIRO-THEORETICAL INFORMATICS AND APPLICATIONS. ISSN 0988-3754, NOV 13 2023, vol. 57. Dostupné na:* [*https://doi.org/10.1051/ita/2023012*](https://doi.org/10.1051/ita/2023012)*, Registrované v: WOS*

*3. [1.1] HOSPODÁR, M. - OLEJÁR, V. The cut operation in subclasses of convex languages. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, AUG 21 2023, vol. 969. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114050*](https://doi.org/10.1016/j.tcs.2023.114050)*, Registrované v: WOS*

*4. [1.1] MOSHKOV, M. Decision Trees for Binary Subword-Closed Languages. In ENTROPY. FEB 2023, vol. 25, no. 2. Dostupné na:* [*https://doi.org/10.3390/e25020349*](https://doi.org/10.3390/e25020349)*, Registrované v: WOS*

*5. [1.1] OLEJÁR, V. - SZABARI, A. Closure Properties of Subregular Languages Under Operations. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2023 MAY 4 2023. Dostupné na:* [*https://doi.org/10.1142/S0129054123450016*](https://doi.org/10.1142/s0129054123450016)*, Registrované v: WOS*

*6. [1.1] TRUTHE, B. Merging two Hierarchies of Internal Contextual Grammars with Subregular Selection. In ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE. ISSN 2075-2180, 2023, vol. 388, p. 125-139. Dostupné na:* [*https://doi.org/10.4204/EPTCS.388.12*](https://doi.org/10.4204/eptcs.388.12)*, Registrované v: WOS*

*7. [1.1] TRUTHE, B. Strictly Locally Testable and Resources Restricted Control Languages in Tree-Controlled Grammars. In ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE. ISSN 2075-2180, 2023, vol. 386, p. 253-268. Dostupné na:* [*https://doi.org/10.4204/EPTCS.386.20*](https://doi.org/10.4204/eptcs.386.20)*, Registrované v: WOS*

*8. [1.2] TRUTHE, Bianca. Merging Two Hierarchies of External Contextual Grammars with Subregular Selection. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918 LNCS, pp. 169-180. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_13*](https://doi.org/10.1007/978-3-031-34326-1_13)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA20 | BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LI, Baiyu. Quotient complexity of ideal languages. In Theoretical Computer Science, 2013, vol. 470, p. 36-52. (2012: 0.489 - IF, Q4 - JCR, 0.780 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2012.10.055> |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

*2. [1.1] HOSPODÁR, M. - OLEJÁR, V. The cut operation in subclasses of convex languages. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, AUG 21 2023, vol. 969, art. nr. 114050. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114050*](https://doi.org/10.1016/j.tcs.2023.114050)*, Registrované v: WOS*

*3. [1.1] OLEJÁR, V. - SZABARI, A. Closure Properties of Subregular Languages Under Operations. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2023 MAY 4 2023. Dostupné na:* [*https://doi.org/10.1142/S0129054123450016*](https://doi.org/10.1142/s0129054123450016)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA21 | BUHAGIAR, David - CHETCUTI, Emmanuel - DVUREČENSKIJ, Anatolij. Loomis-Sikorski theorem and Stone duality for effect algebras with internal state. In Fuzzy Sets and Systems, 2011, vol. 172, p. 71-86. (2010: 1.875 - IF, Q1 - JCR, 1.274 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2011.01.004> |

Citácie:

*1. [1.1] SHI, F.G. - WEI, X.W. Interval convexity of scale effect algebras. In COMMUNICATIONS IN ALGEBRA. ISSN 0092-7872, JUL 3 2023, vol. 51, no. 7, p. 2877-2894. Dostupné na:* [*https://doi.org/10.1080/00927872.2023.2173765*](https://doi.org/10.1080/00927872.2023.2173765)*, Registrované v: WOS*

*2. [1.1] WEI, X.W. - SHI, F.G. Convexity-preserving Properties of Partial Binary Operations with Respect to Filter Convex Structures on Effect Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, JUL 20 2022, vol. 61, no. 7. Dostupné na:* [*https://doi.org/10.1007/s10773-022-05189-5*](https://doi.org/10.1007/s10773-022-05189-5)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA22 | BUTKA, P. - PÓCS, Jozef - PÓCSOVÁ, J. On equivalence of conceptual scaling and generalized one-sided concept lattices. In Information Sciences, 2014, vol. 259, p. 57-70. (2013: 3.893 - IF, Q1 - JCR, 2.332 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2013.08.047> |

Citácie:

*1. [1.1] ZHI, H.L. - LI, Y.N. Attribute granulation in fuzzy formal contexts based on L-fuzzy concepts. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING. ISSN 0888-613X, AUG 2023, vol. 159, art nr. 108947. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2023.108947*](https://doi.org/10.1016/j.ijar.2023.108947)*, Registrované v: WOS*

*2. [1.2] BENÍTEZ-CABALLERO, M. José - MEDINA, Jesús. One-sided Concept Lattices by Blocks. In Studies in Computational Intelligence, 2023-01-01, 1040, pp. 111-118. ISSN 1860949X. Dostupné na:* [*https://doi.org/10.1007/978-3-031-07707-4\_14*](https://doi.org/10.1007/978-3-031-07707-4_14)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA23 | BUTKA, P. - PÓCS, Jozef - PÓCSOVÁ, J. Representation of fuzzy concept lattices in the framework of classical FCA. In Journal of Applied Mathematics, 2013, vol. 2013, art. no. 236725, p. 1-7. (2012: 1.041 - IF, Q3 - JCR, 0.552 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-8936. Dostupné na: <https://doi.org/10.1155/2013/236725> |

Citácie:

*1. [1.1] ANTONI, L. - ELIAS, P. - HORVáTH, T. - KRAJCI, S. - KRíDLO, O. - TöRöK, C. Squared Symmetric Formal Contexts and Their Connections with Correlation Matrices. In GRAPH-BASED REPRESENTATION AND REASONING, ICCS 2023. ISSN 2945-9133, 2023, vol. 14133, p. 19-27. Dostupné na:* [*https://doi.org/10.1007/978-3-031-40960-8\_2*](https://doi.org/10.1007/978-3-031-40960-8_2)*, Registrované v: WOS*

*2. [1.1] PéREZ-GáMEZ, F. - CORDERO, P. - ENCISO, M. - MORA, A. Simplification logic for the management of unknown information. In INFORMATION SCIENCES. ISSN 0020-0255, JUL 2023, vol. 634, p. 505-519. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.03.015*](https://doi.org/10.1016/j.ins.2023.03.015)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA24 | CALVO, T. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - VALÁŠKOVÁ, L. Construction of aggregation operators - new composition method. In Kybernetika, 2003, vol. 39, no. 5, p. 643-650. ISSN 0023-5954. |

Citácie:

*1. [1.1] HU, Feng - FU, Xiaoting - QU, Ziyi - ZONG, Zhaojun. FURTHER RESULTS ON LAWS OF LARGE NUMBERS FOR UNCERTAIN RANDOM VARIABLES. In KYBERNETIKA, 2023, vol. 59, no. 2, pp. 314-338. ISSN 0023-5954. Dostupné na:* [*https://doi.org/10.14736/kyb-2023-2-0314*](https://doi.org/10.14736/kyb-2023-2-0314)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA25 | CAO, Xiaokai - FEČKAN, Michal - SHEN, D. - WANG, JinRong. Iterative learning control for multi-agent systems with impulsive consensus tracking. In Nonlinear Analysis : Modelling and Control, 2021, vol. 26, no. 1, p. 130-150. (2020: 3.257 - IF, Q1 - JCR, 0.734 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2021.26.20981> |

Citácie:

*1. [1.1] CAO, W. - QIAO, J.J. Robust iterative learning control for random switched singular systems in time domain. In MEASUREMENT & CONTROL. ISSN 0020-2940, MAY 2023, vol. 56, no. 5-6, p. 1114-1125. Dostupné na:* [*https://doi.org/10.1177/00202940221143842*](https://doi.org/10.1177/00202940221143842)*, Registrované v: WOS*

*2. [1.1] LI, Z.L. - YANG, Y.L. - CHEN, Y.H. - HUANG, J.Z. A Novel Non-Ferrous Metals Price Forecast Model Based on LSTM and Multivariate Mode Decomposition. In AXIOMS. JUL 2023, vol. 12, no. 7. Dostupné na:* [*https://doi.org/10.3390/axioms12070670*](https://doi.org/10.3390/axioms12070670)*, Registrované v: WOS*

*3. [1.1] WANG, C. - ZHOU, Z.P. - DAI, X.S. - LIU, X.F. Iterative learning approach for consensus tracking of partial difference multi-agent systems with control delay under switching topology. In ISA TRANSACTIONS. ISSN 0019-0578, MAY 2023, vol. 136, p. 46-60. Dostupné na:* [*https://doi.org/10.1016/j.isatra.2022.10.038*](https://doi.org/10.1016/j.isatra.2022.10.038)*, Registrované v: WOS*

*4. [1.1] WU, J. - DAI, X.S. - TIAN, S.P. - HUANG, Q.N. Iterative learning consensus control of nonlinear impulsive distributed parameter multi-agent systems. In EUROPEAN JOURNAL OF CONTROL. ISSN 0947-3580, MAY 2023, vol. 71. Dostupné na:* [*https://doi.org/10.1016/j.ejcon.2023.100785*](https://doi.org/10.1016/j.ejcon.2023.100785)*, Registrované v: WOS*

*5. [1.1] YANG, Y.L. - WU, Y. - HOU, M.Z. - LUO, J.S. - XIE, X.L. Solving Emden-Fowler Equations Using Improved Extreme Learning Machine Algorithm Based on Block Legendre Basis Neural Network. In NEURAL PROCESSING LETTERS. ISSN 1370-4621, DEC 2023, vol. 55, no. 6, p. 7135-7154. Dostupné na:* [*https://doi.org/10.1007/s11063-023-11254-9*](https://doi.org/10.1007/s11063-023-11254-9)*, Registrované v: WOS*

*6. [1.1] ZHOU, X. - HUANG, C.Y. - LI, P. - MA, Z.J. - CAO, J.D. Leader-following identical consensus for Markov jump nonlinear multi-agent systems subjected to attacks with impulse. In NONLINEAR ANALYSIS-MODELLING AND CONTROL. ISSN 1392-5113, 2023, vol. 28, no. 5, p. 995-1019. Dostupné na:* [*https://doi.org/10.15388/namc.2023.28.33003*](https://doi.org/10.15388/namc.2023.28.33003)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA26 | CAO, Xiaokai - FEČKAN, Michal - SHEN, Dong - WANG, JinRong\*\*. Iterative learning control for impulsive multi-agent systems with varying trial lengths. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 3, p. 445-465. (2021: 2.217 - IF, Q1 - JCR, 0.602 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2022.27.25475> |

Citácie:

*1. [1.1] LI, L. Convergence properties concerning Lebesgue-p norm of iterative learning control for a class of fractional differential systems. In ASIAN JOURNAL OF CONTROL. ISSN 1561-8625, SEP 2023, vol. 25, no. 5, p. 3965-3977. Dostupné na:* [*https://doi.org/10.1002/asjc.3090*](https://doi.org/10.1002/asjc.3090)*, Registrované v: WOS*

*2. [1.1] WU, J. - DAI, X.S. - TIAN, S.P. - HUANG, Q.N. Iterative learning consensus control of nonlinear impulsive distributed parameter multi-agent systems. In EUROPEAN JOURNAL OF CONTROL. ISSN 0947-3580, MAY 2023, vol. 71. Dostupné na:* [*https://doi.org/10.1016/j.ejcon.2023.100785*](https://doi.org/10.1016/j.ejcon.2023.100785)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA27 | CARBONE, Raffaella - JENČOVÁ, Anna. On period, cycles and fixed points of a quantum channel. In Annales Henri Poincare, 2020, vol. 21, p. 155-188. (2019: 1.489 - IF, Q2 - JCR, 1.214 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1424-0637. Dostupné na: <https://doi.org/10.1007/s00023-019-00861-9> |

Citácie:

*1. [1.1] AMATO, D. - FACCHI, P. - KONDERAK, A. Asymptotics of quantum channels. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, JUN 30 2023, vol. 56, no. 26, art. nr. 265304. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acd828*](https://doi.org/10.1088/1751-8121/acd828)*, Registrované v: WOS*

*2. [1.1] LI, Y. - LI, F. - CHEN, S. - CHEN, Y.N. APPROXIMATION STATES AND FIXED POINTS OF QUANTUM CHANNELS. In REPORTS ON MATHEMATICAL PHYSICS. ISSN 0034-4877, FEB 2023, vol. 91, no. 1, p. 117-129. Dostupné na:* [*https://doi.org/10.1016/s0034-4877(23)00014-9*](https://doi.org/10.1016/s0034-4877(23)00014-9)*, Registrované v: WOS*

*3. [1.1] SASSO, E. - UMANITA, V. The general structure of the decoherence-free subalgebra for uniformly continuous quantum Markov semigroups. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, APR 1 2023, vol. 64, no. 4, art. nr. 42703. Dostupné na:* [*https://doi.org/10.1063/5.0092998*](https://doi.org/10.1063/5.0092998)*, Registrované v: WOS*

*4. [1.1] SOUISSI, A. - MUKHAMEDOV, F. - BARHOUMI, A. Tree-Homogeneous Quantum Markov Chains. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, JAN 23 2023, vol. 62, no. 2, art. nr. 19. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05276-1*](https://doi.org/10.1007/s10773-023-05276-1)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA28 | CASERTA, A. - DI MAIO, G. - HOLÁ, Ľubica. Arzela´s theorem and strong uniform convergence on bornologies. In Journal of Mathematical Analysis and Applications, 2010, vol. 371, p. 384-392. (2009: 1.225 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2010.05.042> |

Citácie:

*1. [1.1] CHAUHAN, T.K. - JINDAL, V. CLOPEN LINEAR SUBSPACES AND CONNECTEDNESS IN FUNCTION SPACES. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS. ISSN 0035-7596, OCT 2023, vol. 53, no. 5, p. 1415-1430. Dostupné na:* [*https://doi.org/10.1216/rmj.2023.53.1415*](https://doi.org/10.1216/rmj.2023.53.1415)*, Registrované v: WOS*

*2. [1.1] LIANG, C.Y. - SHI, F.G. - WANG, J.Y. (L, M)-fuzzy bornological spaces. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, SEP 15 2023, vol. 467. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.02.017*](https://doi.org/10.1016/j.fss.2023.02.017)*, Registrované v: WOS*

*3. [1.2] BEER, Gerald. Bornologies and Lipschitz Analysis. In Bornologies and Lipschitz Analysis, 2023-01-01, pp. 1-232. Dostupné na:* [*https://doi.org/10.1201/9781003047377*](https://doi.org/10.1201/9781003047377)*, Registrované v: SCOPUS*

*4. [1.2] GHOSH, Argha. A study on convergence of sequences of functions in asymmetric metric spaces using ideals. In Novi Sad Journal of Mathematics, 2023-01-01, 53, 1, pp. 97-116. ISSN 14505444. Dostupné na:* [*https://doi.org/10.30755/NSJOM.12544*](https://doi.org/10.30755/nsjom.12544)*, Registrované v: SCOPUS*

*5. [2.2] DAS, Subhankar. SOME OBSERVATIONS ON IDEAL VARIATIONS OF BORNOLOGICAL COVERS. In Tatra Mountains Mathematical Publications, 2023-11-01, 85, 3, pp. 1-16. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2023-0020*](https://doi.org/10.2478/tmmp-2023-0020)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA29 | CIUNGU, L.C. - DVUREČENSKIJ, Anatolij - HYČKO, Marek. State BL-algebras. In Soft Computing, 2011, vol. 15, no. 4, p. 619-634. (2010: 1.512 - IF, Q2 - JCR, 0.694 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-010-0571-5> |

Citácie:

*1. [1.1] WANG, J.T. - KANG, M.N. - FU, X.S. - LI, F. State monadic residuated lattices and their corresponding filters. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2023, vol. 44, no. 2, p. 1793-1805. Dostupné na:* [*https://doi.org/10.3233/JIFS-213527*](https://doi.org/10.3233/jifs-213527)*, Registrované v: WOS*

*2. [1.1] WOUMFO, F. - ALOMO, E.R.T. - LELE, C. The prime state ideal theorem in state residuated lattices. In PHYSICAL REVIEW RESEARCH. MAR 7 2023, vol. 5, no. 1, p. 131-153. Dostupné na:* [*https://doi.org/10.52547/cgasa.18.1.131*](https://doi.org/10.52547/cgasa.18.1.131)*, Registrované v: WOS*

*3. [1.2] WANG, Juntao - KANG, Mengna - FU, Xuesong - LI, Fei. State monadic residuated lattices and their corresponding filters. In Journal of Intelligent and Fuzzy Systems, 2023-01-01, 44, 2, pp. 1793-1805. ISSN 10641246. Dostupné na:* [*https://doi.org/10.3233/JIFS-213527*](https://doi.org/10.3233/jifs-213527)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA30 | CLOTE, P. - DOBREV, Stefan - DOTU, I. - KRANAKIS, E. - KRIZANC, D. - URRUTIA, J. On the page number of RNA secondary structures with pseudoknots. In Journal of Mathematical Biology, 2012, vol. 65, no. 6-7, p. 1337-1357. (2011: 2.963 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0303-6812. Dostupné na: <https://doi.org/10.1007/s00285-011-0493-6> |

Citácie:

*1. [1.1] CENICEROS, J. - CHRISTIANA, A. - NELSON, S. Psyquandle coloring quivers. In JOURNAL OF KNOT THEORY AND ITS RAMIFICATIONS. ISSN 0218-2165, OCT 2023, vol. 32, no. 11. Dostupné na:* [*https://doi.org/10.1142/S0218216523500736*](https://doi.org/10.1142/s0218216523500736)*, Registrované v: WOS*

*2. [1.1] JEONG, S. - KIM, J. - NELSON, S. Psybrackets, pseudoknots and singular Knots. In JOURNAL OF KNOT THEORY AND ITS RAMIFICATIONS. ISSN 0218-2165, JAN 2023, vol. 32, no. 01. Dostupné na:* [*https://doi.org/10.1142/S0218216523500013*](https://doi.org/10.1142/s0218216523500013)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA31 | CONDER, M. - NEDELA, Roman. A refined classification of symmetric cubic graphs. In Journal of Algebra, 2009, vol. 322, s. 722-740. (2008: 0.630 - IF, Q2 - JCR, 1.355 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0021-8693. |

Citácie:

*1. [1.1] KUTNAR, K. - MARUSIC, D. - PUJOL, C. Intersection density of cubic symmetric graphs. In JOURNAL OF ALGEBRAIC COMBINATORICS. ISSN 0925-9899, 2023 APR 3 2023. Dostupné na:* [*https://doi.org/10.1007/s10801-023-01228-4*](https://doi.org/10.1007/s10801-023-01228-4)*, Registrované v: WOS*

*2. [1.1] ZHOU, J.X. Finite 3-connected-set-homogeneous locally 2Kn graphs and s-arc-transitive graphs. In JOURNAL OF COMBINATORIAL THEORY SERIES B. ISSN 0095-8956, MAR 2023, vol. 159, p. 140-174. Dostupné na:* [*https://doi.org/10.1016/j.jctb.2022.12.002*](https://doi.org/10.1016/j.jctb.2022.12.002)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA32 | DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay - CHEN, Guanrong. Coupled Discrete Fractional-Order Logistic Maps. In Mathematics, 2021, vol. 9, issue 18, p. 1-13. (2020: 2.258 - IF, Q1 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math9182204> |

Citácie:

*1. [1.1] MA, T. - MOU, J. - BANERJEE, S. - CAO, Y.H. Analysis of the functional behavior of fractional-order discrete neuron under electromagnetic radiation. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, NOV 2023, vol. 176. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.114113*](https://doi.org/10.1016/j.chaos.2023.114113)*, Registrované v: WOS*

*2. [1.2] WANG, Yupin - LIU, Shutang - KHAN, Aziz. On fractional coupled logistic maps: chaos analysis and fractal control. In Nonlinear Dynamics, 2023-03-01, 111, 6, pp. 5889-5904. ISSN 0924090X. Dostupné na:* [*https://doi.org/10.1007/s11071-022-08141-8*](https://doi.org/10.1007/s11071-022-08141-8)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA33 | DANCA, Marius-F.\*\* - FEČKAN, Michal. Mandelbrot set and Julia sets of fractional order. In Nonlinear Dynamics, 2023, vol. 111, p. 9555-9570. (2022: 5.6 - IF, Q1 - JCR, 1.285 - SJR, Q1 - SJR). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-023-08311-2> |

Citácie:

*1. [1.1] JOSHI, D.D. - BHALEKAR, S. - GADE, P.M. Controlling fractional difference equations using feedback. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113401*](https://doi.org/10.1016/j.chaos.2023.113401)*, Registrované v: WOS*

*2. [1.2] ELSADANY, A. A. - ALDURAYHIM, A. - AGIZA, H. N. - ELSONBATY, Amr. On the Fractional-Order Complex Cosine Map: Fractal Analysis, Julia Set Control and Synchronization. In Mathematics, 2023-02-01, 11, 3, pp. Dostupné na:* [*https://doi.org/10.3390/math11030727*](https://doi.org/10.3390/math11030727)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA34 | DANCA, Marius-F.\*\* - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Complex dynamics, hidden attractors and continuous approximation of a fractional-order hyperchaotic PWC system. In Nonlinear Dynamics, 2018, vol. 91, no. 4, p. 2523-2540. (2017: 4.339 - IF, Q1 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-017-4029-5> |

Citácie:

*1. [1.1] LI, Z.J. - XIE, W.Q. - ZENG, J.F. - ZENG, Y.C. Firing activities in a fractional-order Hindmarsh-Rose neuron with multistable memristor as autapse. In CHINESE PHYSICS B. ISSN 1674-1056, JAN 1 2023, vol. 32, no. 1. Dostupné na:* [*https://doi.org/10.1088/1674-1056/ac65f7*](https://doi.org/10.1088/1674-1056/ac65f7)*, Registrované v: WOS*

*2. [1.1] WANG, X. - CAO, Y.H. - LI, H.J. - LI, B. A Chaos-Enhanced Fractional-Order Chaotic System with Self-Reproduction Based on a Memcapacitor and Meminductor. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080582*](https://doi.org/10.3390/fractalfract7080582)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA35 | DANCA, Marius-F.\*\* - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Fractional-order PWC systems without zero Lyapunov exponents. In Nonlinear Dynamics, 2018, vol. 92, no. 3, p. 1061-1078. (2017: 4.339 - IF, Q1 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-018-4108-2> |

Citácie:

*1. [1.1] GU, Y.J. - LI, G.D. - XU, X.L. - SONG, X.M. - ZHONG, H.Y. Solution of a new high-performance fractional-order Lorenz system and its dynamics analysis. In NONLINEAR DYNAMICS. ISSN 0924-090X, APR 2023, vol. 111, no. 8, p. 7469-7493. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08239-7*](https://doi.org/10.1007/s11071-023-08239-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA36 | DANCA, Marius-F.\*\* - FEČKAN, Michal - KUZNETSOV, Nikolay V. Chaos control in the fractional order logistic map via impulses. In Nonlinear Dynamics, 2019, vol. 98, no. 2, p. 1219-1230. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-019-05257-2> |

Citácie:

*1. [1.1] RAN, J. - QIU, J.X. - ZHOU, Y.H. Stability and dynamics of a stochastic discrete fractional-order chaotic system with short memory. In ADVANCES IN CONTINUOUS AND DISCRETE MODELS. OCT 10 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13662-023-03786-0*](https://doi.org/10.1186/s13662-023-03786-0)*, Registrované v: WOS*

*2. [1.1] SUBRAMANI, R. - NATIQ, H. - RAJAGOPAL, K. - KREJCAR, O. - NAMAZI, H. The dynamic analysis of discrete fractional-order two-gene map. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. ISSN 1951-6355, NOV 2023, vol. 232, no. 14-15, SI, p. 2445-2457. Dostupné na:* [*https://doi.org/10.1140/epjs/s11734-023-00912-7*](https://doi.org/10.1140/epjs/s11734-023-00912-7)*, Registrované v: WOS*

*3. [1.1] WU, X.M. - FU, L.X. - HE, S.B. - YAO, Z. - WANG, H.H. - HAN, J.Y. Hidden attractors in a new fractional-order Chua system with arctan nonlinearity and its DSP implementation. In RESULTS IN PHYSICS. ISSN 2211-3797, SEP 2023, vol. 52. Dostupné na:* [*https://doi.org/10.1016/j.rinp.2023.106866*](https://doi.org/10.1016/j.rinp.2023.106866)*, Registrované v: WOS*

*4. [1.2] DENG, Jianjie - ZHANG, Hui - LI, Jing - ZHOU, Lin - ZHANG, Jing - YOU, Yong. Bifurcation and Chaos of Fractional-order Logistic Map under Periodic Driving Force. In 2023 8th International Conference on Intelligent Computing and Signal Processing, ICSP 2023, 2023-01-01, pp. 355-358. Dostupné na:* [*https://doi.org/10.1109/ICSP58490.2023.10248605*](https://doi.org/10.1109/icsp58490.2023.10248605)*, Registrované v: SCOPUS*

*5. [1.2] GRASSI, Giuseppe - KHENNAOUI, Amina Aicha - OUANNAS, Adel - PHAM, Viet Thanh. Three-dimensional Chaotic Fractional Maps without Fixed Points: Dynamics, Coexisting Hidden Attractors and Hardware Implementation. In 2023 International Conference on Fractional Differentiation and Its Applications, ICFDA 2023, 2023-01-01, pp. Dostupné na:* [*https://doi.org/10.1109/ICFDA58234.2023.10153160*](https://doi.org/10.1109/icfda58234.2023.10153160)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA37 | DANCA, Marius-F.\*\* - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Rich dynamics and anticontrol of extinction in a prey-predator system. In Nonlinear Dynamics, 2019, vol. 98, no. 2, p. 1421-1445. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-019-05272-3> |

Citácie:

*1. [1.1] GUMUS, O.A. A STUDY ON STABILITY, BIFURCATION ANALYSIS AND CHAOS CONTROL OF A DISCRETE-TIME PREY-PREDATOR SYSTEM INVOLVING ALLEE EFFECT. In JOURNAL OF APPLIED ANALYSIS AND COMPUTATION. ISSN 2156-907X, DEC 2023, vol. 13, no. 6, p. 3166-3194. Dostupné na:* [*https://doi.org/10.11948/20220532*](https://doi.org/10.11948/20220532)*, Registrované v: WOS*

*2. [1.1] GüMüS, ÖA. Bifurcation analysis and chaos control of a discrete-time prey-predator model with Allee effect. In HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS. 2023, vol. 52, no. 4, p. 1029-1045. Dostupné na:* [*https://doi.org/10.15672/hujms.1179682*](https://doi.org/10.15672/hujms.1179682)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA38 | DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Looking more closely at the Rabinovich-Fabrikant system. In International Journal of Bifurcation and Chaos, 2016, vol. 26, no. 2, art. no. 1650038 p. [1-21]. (2015: 1.355 - IF, Q2 - JCR, 0.752 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127416500383](https://doi.org/10.1142/s0218127416500383) |

Citácie:

*1. [1.1] SABIR, Z. - BALEANU, D. - ALHAZMI, S.E. - BEN SAID, S. Heuristic computing with active set method for the nonlinear Rabinovich-Fabrikant model. In HELIYON. NOV 2023, vol. 9, no. 11. Dostupné na:* [*https://doi.org/10.1016/j.heliyon.2023.e22030*](https://doi.org/10.1016/j.heliyon.2023.e22030)*, Registrované v: WOS*

*2. [1.1] SABIR, Z. - SAID, S.B. - AL-MDALLAL, Q. Hybridization of the swarming and interior point algorithms to solve the Rabinovich-Fabrikant system. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUL 6 2023, vol. 13, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41598-023-37466-6*](https://doi.org/10.1038/s41598-023-37466-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA39 | DANCA, Marius-F. - FEČKAN, Michal - CHEN, Guanrong. Impulsive stabilization of chaos in fractional-order systems. In Nonlinear Dynamics, 2017, vol. 89, no. 3, p. 1889-1903. (2016: 3.464 - IF, Q1 - JCR, 1.167 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-017-3559-1> |

Citácie:

*1. [1.1] LENKA, B.K. - BORA, S.N. New comparison results for nonlinear Caputo-type real-order systems with applications. In NONLINEAR DYNAMICS. ISSN 0924-090X, OCT 2023, vol. 111, no. 20, p. 19249-19264. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08846-4*](https://doi.org/10.1007/s11071-023-08846-4)*, Registrované v: WOS*

*2. [1.1] LI, Z.J. - XIE, W.Q. - ZENG, J.F. - ZENG, Y.C. Firing activities in a fractional-order Hindmarsh-Rose neuron with multistable memristor as autapse. In CHINESE PHYSICS B. ISSN 1674-1056, JAN 1 2023, vol. 32, no. 1. Dostupné na:* [*https://doi.org/10.1088/1674-1056/ac65f7*](https://doi.org/10.1088/1674-1056/ac65f7)*, Registrované v: WOS*

*3. [1.2] LU, Senkui - LI, Xiang - LU, Ke - WANG, Zhengzhong - MA, Yujie. Adaptive fuzzy command filtered control for incommensurate fractional-order MIMO nonlinear systems with input saturation. In Neural Computing and Applications, 2023-04-01, 35, 11, pp. 8157-8170. ISSN 09410643. Dostupné na:* [*https://doi.org/10.1007/s00521-022-08091-7*](https://doi.org/10.1007/s00521-022-08091-7)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA40 | DANCA, Marius-F.\*\* - FEČKAN, Michal. Hidden chaotic attractors and chaos suppression in an impulsive discrete economical supply and demand dynamical system. In Communications in nonlinear science and numerical simulation, 2019, vol. 74, p. 1-13. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704. Dostupné na: <https://doi.org/10.1016/j.cnsns.2019.03.008> |

Citácie:

*1. [1.1] KRAEHLING, P. - STEYER, J. - PARLITZ, U. - HEGEDUS, F. Attractor selection in nonlinear oscillators by temporary dual-frequency driving. In NONLINEAR DYNAMICS. ISSN 0924-090X, OCT 2023, vol. 111, no. 20, p. 19209-19224. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08855-3*](https://doi.org/10.1007/s11071-023-08855-3)*, Registrované v: WOS*

*2. [1.1] LAMPART, M. - LAMPARTOVá, A. - ORLANDO, G. On risk and market sentiments driving financial share price dynamics. In NONLINEAR DYNAMICS. ISSN 0924-090X, SEP 2023, vol. 111, no. 17, p. 16585-16604. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08702-5*](https://doi.org/10.1007/s11071-023-08702-5)*, Registrované v: WOS*

*3. [1.1] ZHAO, P.C. - WEI, H.J. - XU, Z.K. - CHEN, D.Y. - XU, B.B. - WANG, Y.M. Existence of hidden attractors in nonlinear hydro-turbine governing systems and its stability analysis. In CHINESE PHYSICS B. ISSN 1674-1056, SEP 1 2023, vol. 32, no. 9. Dostupné na:* [*https://doi.org/10.1088/1674-1056/acc8c4*](https://doi.org/10.1088/1674-1056/acc8c4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA41 | DANCA, Marius-F. - FEČKAN, Michal - ROMERA, Miguel. Generalized form of Parrondo's paradoxical game with applications to chaos control. In International Journal of Bifurcation and Chaos, 2014, vol. 24, no. 1, art. no. 1450008. (2013: 1.017 - IF, Q2 - JCR, 0.678 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127414500084](https://doi.org/10.1142/s0218127414500084) |

Citácie:

*1. [1.1] WALCZAK, Z. - BAUER, J.H. Noise-induced Parrondo';s paradox in discrete-time quantum walks. In PHYSICAL REVIEW E. ISSN 2470-0045, OCT 11 2023, vol. 108, no. 4. Dostupné na:* [*https://doi.org/10.1103/PhysRevE.108.044212*](https://doi.org/10.1103/physreve.108.044212)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA42 | DANČÍK, Vladimír. Common subsequences and supersequences and their expected length. In Combinatorics, Probability and Computing, 1998, vol. 7, s. 365-373. ISSN 0963-5483. |

Citácie:

*1. [1.1] HOUDRé, C. - ISLAK, Ü. A central limit theorem for the length of the longest common subsequences in random words. In ELECTRONIC JOURNAL OF PROBABILITY. ISSN 1083-6489, 2023, vol. 28. Dostupné na:* [*https://doi.org/10.1214/22-EJP894*](https://doi.org/10.1214/22-ejp894)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA43 | DANČÍK, Vladimír. Complexity of Boolean functions over bases with unbounded fan-in gates. In Information Processing Letters, 1996, vol. 57, no. 1, s. 31-34. ISSN 0020-0190. |

Citácie:

*1. [1.1] HRUBES, P. - TALEBANFARD, N. On the Extension Complexity of Polytopes Separating Subsets of the Boolean Cube. In DISCRETE & COMPUTATIONAL GEOMETRY. ISSN 0179-5376, JUL 2023, vol. 70, no. 1, p. 268-278. Dostupné na:* [*https://doi.org/10.1007/s00454-022-00419-3*](https://doi.org/10.1007/s00454-022-00419-3)*, Registrované v: WOS*

*2. [1.2] AMANO, Kazuyuki. Depth-Three Circuits for Inner Product and Majority Functions. In Leibniz International Proceedings in Informatics, LIPIcs, 2023-12-01, 283, pp. ISSN 18688969. Dostupné na:* [*https://doi.org/10.4230/LIPIcs.ISAAC.2023.7*](https://doi.org/10.4230/lipics.isaac.2023.7)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA44 | DANČÍK, Vladimír - SEILER, Kathlen Petri - YOUNG, Damian W. - SCHREIBER, Stuart L. - CLEMONS, Paul A. Distinct Biological Network Properties between the Targets of Natural Products and Disease Genes. In Journal of the American Chemical Society, 2010, vol. 132, no. 27, p. 9259-9261. (2009: 8.580 - IF, 4.958 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/ja102798t> |

Citácie:

*1. [1.1] NICOLETTI, M. The Antioxidant Activity of Mistletoes (Viscum album and Other Species). In PLANTS-BASEL. ISSN 2223-7747, JUL 2023, vol. 12, no. 14. Dostupné na:* [*https://doi.org/10.3390/plants12142707*](https://doi.org/10.3390/plants12142707)*, Registrované v: WOS*

*2. [1.1] ZHAO, P. - ZENG, Q.L. Substrate-controlled chemoselective synthesis of 1-sulfonylquinazoline-2,4(1H,3H)-diones and 2-sulfonamidobenzonitriles. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, NOV 2023, vol. 60, no. 11, p. 1938-1944. Dostupné na:* [*https://doi.org/10.1002/jhet.4726*](https://doi.org/10.1002/jhet.4726)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA45 | DEČO, M. - REPICKÝ, Miroslav. Strongly dominating sets of reals. In Archive for Mathematical Logic, 2013, vol. 52, no. 7, p. 827-846. (2012: 0.281 - IF, Q4 - JCR, 0.524 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1432-0665. Dostupné na: <https://doi.org/10.1007/s00153-013-0347-6> |

Citácie:

*1. [1.1] KHOMSKII, Yurii - KOELBING, Marlene - LAGUZZI, Giorgio - WOHOFSKY, Wolfgang. Laver Trees in the Generalized Baire Space. In ISRAEL JOURNAL OF MATHEMATICS, 2023, vol. 255, no. 2, pp. 599-620. ISSN 0021-2172. Dostupné na:* [*https://doi.org/10.1007/s11856-022-2465-5*](https://doi.org/10.1007/s11856-022-2465-5)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA46 | DI LUNA, G.\*\* - DOBREV, Stefan - FLOCCHINI, Paola - SANTORO, Nicola. Distributed exploration of dynamic rings. In Distributed Computing, 2020, vol. 33, no. 1, p. 41-67. (2019: 0.894 - IF, Q3 - JCR, 0.729 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0178-2770. Dostupné na: <https://doi.org/10.1007/s00446-018-0339-1> |

Citácie:

*1. [1.1] MANDAL, Subhrangsu - MOLLA, Anisur Rahaman - MOSES, William K. Efficient live exploration of a dynamic ring with mobile robots. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 980, no., art. no. 114201. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114201*](https://doi.org/10.1016/j.tcs.2023.114201)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA47 | DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - HYČKO, Marek - MANARA, Corrado. Entropy on effect algebras with the Riesz decomposition property II: MV-algebras. In Kybernetika, 2005, roč. 41, č. 2, s. 161-176. (2004: 0.224 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0023-5954. |

Citácie:

*1. [1.1] BARBIERI, G.G. - BEDROOD, M. - LENZI, G. Entropies and Dynamical Systems in Riesz MV-algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, MAY 31 2023, vol. 62, no. 6. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05367-z*](https://doi.org/10.1007/s10773-023-05367-z)*, Registrované v: WOS*

*2. [1.1] RAM, G. - KUMAR, S. Coding Theorem Based on λ-Norm Entropy for Partitions in Product MV-Algebras. In JOURNAL OF MATHEMATICAL EXTENSION. ISSN 1735-8299, 2023, vol. 17, no. 6. Dostupné na:* [*https://doi.org/10.30495/JME.2023.2319*](https://doi.org/10.30495/jme.2023.2319)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA48 | DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - HYČKO, Marek - MANARA, Corrado. Entropy on effect algebras with the Riesz decomposition property I: Basic properties. In Kybernetika, 2005, roč. 41, č. 2, s. 143-160. (2004: 0.224 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0023-5954. |

Citácie:

*1. [1.1] BARBIERI, G.G. - BEDROOD, M. - LENZI, G. Entropies and Dynamical Systems in Riesz MV-algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, MAY 31 2023, vol. 62, no. 6. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05367-z*](https://doi.org/10.1007/s10773-023-05367-z)*, Registrované v: WOS*

*2. [1.1] SINGH, A.K. EXPONENTIAL ENTROPY ON SEQUENTIAL EFFECT ALGEBRAS. In REPORTS ON MATHEMATICAL PHYSICS. ISSN 0034-4877, AUG 2023, vol. 92, no. 1, p. 49-58. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(23)00054-X*](https://doi.org/10.1016/s0034-4877(23)00054-x)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA49 | DI NOLA, Antonio - DVUREČENSKIJ, Anatolij. State-morphism MV-algebras. In Annals of Pure and Applied Logic, 2009, vol. 161, p. 161-173. (2008: 0.551 - IF, Q3 - JCR, 0.737 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0168-0072. |

Citácie:

*1. [1.2] LAPENTA, Serafina - NAPOLITANO, Sebastiano - SPADA, Luca. Ideals in the Two-Sorted Variety of Equational States. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 14069 LNCS, pp. 495-504. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-39965-7\_41*](https://doi.org/10.1007/978-3-031-39965-7_41)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA50 | DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Nonexistence of periodic solutions and S-asymptotically periodic solutions in fractional difference equations. In Applied Mathematics and Computation, 2015, vol. 257, p. 230-240. (2014: 1.551 - IF, Q1 - JCR, 0.961 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0096-3003. Dostupné na: <https://doi.org/10.1016/j.amc.2014.11.108> |

Citácie:

*1. [1.1] BOUZERAA, S.E.I. - BOUOUDEN, R. - ABDELOUAHAB, M.S. Fractional logistic map with fixed memory length. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS. ISSN 0308-1079, AUG 18 2023, vol. 52, no. 6, p. 653-663. Dostupné na:* [*https://doi.org/10.1080/03081079.2023.2201001*](https://doi.org/10.1080/03081079.2023.2201001)*, Registrované v: WOS*

*2. [1.1] DANCA, M.F. - JONNALAGADDA, J.M. On the Solutions of a Class of Discrete PWC Systems Modeled with Caputo-Type Delta Fractional Difference Equations. In FRACTAL AND FRACTIONAL. APR 2023, vol. 7, no. 4. Dostupné na:* [*https://doi.org/10.3390/fractalfract7040304*](https://doi.org/10.3390/fractalfract7040304)*, Registrované v: WOS*

*3. [1.1] DANCA, M.F. On the Stability Domain of a Class of Linear Systems of Fractional Order. In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010049*](https://doi.org/10.3390/fractalfract7010049)*, Registrované v: WOS*

*4. [1.1] DANCA, MariusF. Symmetry-breaking and bifurcation diagrams of fractional-order maps. In COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, 2023, vol. 116, art. nr. 106760, 14 p. ISSN 1007-5704. Dostupné na:* [*https://doi.org/10.1016/j.cnsns.2022.106760*](https://doi.org/10.1016/j.cnsns.2022.106760)*, Registrované v: WOS*

*5. [1.1] UZDILA, E. - TELKSNIENE, I. - TELKSNYS, T. - RAGULSKIS, M. Finite-Time Stabilization of Unstable Orbits in the Fractional Difference Logistic Map. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080570*](https://doi.org/10.3390/fractalfract7080570)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA51 | DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. On the new control functions for linear discrete delay systems. In SIAM Journal on Control and Optimization, 2014, vol. 52, no. 3, p. 1745-1760. (2013: 1.389 - IF, Q1 - JCR, 1.866 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0363-0129. Dostupné na: <https://doi.org/10.1137/140953654> |

Citácie:

*1. [1.1] ABUASBEH, K. - MAHMUDOV, N.I. - AWADALLA, M. Relative Controllability and Ulam-Hyers Stability of the Second-Order Linear Time-Delay Systems. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040806*](https://doi.org/10.3390/math11040806)*, Registrované v: WOS*

*2. [1.1] ZHOU, A.R. - WANG, J.R. Relative controllability of conformable delay differential systems with linear parts defined by permutable matrices. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 9, p. 2659-2673. Dostupné na:* [*https://doi.org/10.2298/FIL2309659Z*](https://doi.org/10.2298/fil2309659z)*, Registrované v: WOS*

*3. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

*4. [1.2] MUTHUVEL, Kothandapani - SAWANGTONG, Panumart - KALIRAJ, Kalimuthu. Relative Controllability of ψ-Caputo Fractional Neutral Delay Differential System. In Fractal and Fractional, 2023-06-01, 7, 6, art.nr. 437. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA52 | DIBLÍK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Representation of a solution of the Cauchy problem for an oscillating system with multiple delays and pairwise permutable matrices. In Abstract and applied analysis, 2013, art. no. 931493. (2012: 1.102 - IF, Q1 - JCR, 0.789 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1085-3375. Dostupné na: <https://doi.org/10.1155/2013/931493> |

Citácie:

*1. [1.1] ABUASBEH, K. - MAHMUDOV, N.I. - AWADALLA, M. Relative Controllability and Ulam-Hyers Stability of the Second-Order Linear Time-Delay Systems. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040806*](https://doi.org/10.3390/math11040806)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA53 | DOBREV, Stefan - KRÁLOVIČ, R. - PARDUBSKÁ, D. Measuring the problem-relevant information in input. In RAIRO-Theoretical Informatics and Applications, 2009, vol. 43, no. 3, p. 585-613. (2008: 0.277 - IF, Q4 - JCR, 0.467 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0988-3754. |

Citácie:

*1. [1.1] ANTONIADIS, A. - BOYAR, J. - ELIAS, M. - FAVRHOLDT, L.M. - HOEKSMA, R. - LARSEN, K.S. - POLAK, A. - SIMON, B. Paging with Succinct Predictions. In INTERNATIONAL CONFERENCE ON MACHINE LEARNING, VOL 202. ISSN 2640-3498, 2023, vol. 202., Registrované v: WOS*

*2. [1.1] BERNDT, N. - LOTZE, H. Advice Complexity Bounds for Online Delayed F-Node-, H-Node- and H-Edge-Deletion Problems. In COMBINATORIAL ALGORITHMS, IWOCA 2023. ISSN 0302-9743, 2023, vol. 13889, p. 62-73. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34347-6\_6*](https://doi.org/10.1007/978-3-031-34347-6_6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA54 | DOBREV, Stefan - EDMONDS, Jeff - KOMM, Dennis - KRÁLOVIČ, Rastislav - KRÁLOVIČ, Richard - KRUG, Sacha - MÖMKE, Tobias. Improved analysis of the online set cover problem with advice. In Theoretical Computer Science, 2017, vol. 689, p. 96-107. (2016: 0.698 - IF, Q4 - JCR, 0.547 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2017.05.029> |

Citácie:

*1. [1.1] AHMADIAN, S. - ESFANDIARI, H. - MIRROKNI, V. - PENG, B.H. Robust Load Balancing with Machine Learned Advice. In JOURNAL OF MACHINE LEARNING RESEARCH. ISSN 1532-4435, 2023, vol. 24., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA55 | DOBREV, Stefan - DUROCHER, Stephane - EFTEKHARI, Mohsen - GEORGIOU, Konstantinos - KRANAKIS, E. Complexity of barrier coverage with relocatable sensors in the plane. In Theoretical Computer Science, 2015, vol. 579, p. 64-73. (2014: 0.657 - IF, Q3 - JCR, 0.669 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2015.02.006> |

Citácie:

*1. [1.1] CHOI, Y. - KIM, H. Convex Hull Obstacle-Aware Pedestrian Tracking and Target Detection in Theme Park Applications. In DRONES. APR 2023, vol. 7, no. 4. Dostupné na:* [*https://doi.org/10.3390/drones7040279*](https://doi.org/10.3390/drones7040279)*, Registrované v: WOS*

*2. [1.1] YAO, P. - GUO, L.K. - LI, P. - LIN, J.W. Optimal algorithm for min-max line barrier coverage with mobile sensors on 2-dimensional plane. In COMPUTER NETWORKS. ISSN 1389-1286, JUN 2023, vol. 228. Dostupné na:* [*https://doi.org/10.1016/j.comnet.2023.109717*](https://doi.org/10.1016/j.comnet.2023.109717)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA56 | DU, S. - JONES, G. - KWAK, J.H. - NEDELA, Roman - ŠKOVIERA, M. 2-groups that factorise as products of cyclic groups and regular embeddings of complete bipartite graphs. In Ars Mathematica Contemporanea, 2013, vol. 6, s. 155-170. (2012: 0.667 - IF, Q2 - JCR, 0.367 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1855-3966. |

Citácie:

*1. [1.1] FAN, W.W. - LI, C.H. - QIAO, S.H. Complete circular regular dessins of coprime orders. In DISCRETE MATHEMATICS. ISSN 0012-365X, JAN 2023, vol. 346, no. 1. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113189*](https://doi.org/10.1016/j.disc.2022.113189)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA57 | DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Pseudoeffect Algebras. I. Basic properties. In International Journal of Theoretical Physics, 2001, vol. 40, p. 685-701. ISSN 0020-7748. |

Citácie:

*1. [1.1] CIUNGU, L.C. Valued quantum B-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 1-18. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.05.002*](https://doi.org/10.1016/j.fss.2022.05.002)*, Registrované v: WOS*

*2. [1.1] RUMP, W. The geometry of discrete L-algebras. In ADVANCES IN GEOMETRY. ISSN 1615-715X, OCT 26 2023, vol. 23, no. 4, p. 543-565. Dostupné na:* [*https://doi.org/10.1515/advgeom-2023-0023*](https://doi.org/10.1515/advgeom-2023-0023)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA58 | DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Congruences and states on pseudoeffect algebras. In Foundations of Physics Letters, 2001, vol. 14, s. 425-446. ISSN 0894-9875. |

Citácie:

*1. [1.1] ZHANG, X.H. - SHENG, N. - BORZOOEI, R.A. Partial Residuated Implications Induced by Partial Triangular Norms and Partial Residuated Lattices. In AXIOMS. JAN 2023, vol. 12, no. 1. Dostupné na:* [*https://doi.org/10.3390/axioms12010063*](https://doi.org/10.3390/axioms12010063)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA59 | DVUREČENSKIJ, Anatolij. Every linear pseudo BL-algebra admits a state. In Soft Computing, 2007, vol. 11, p. 495-501. (2006: 0.516 - IF, Q4 - JCR, 0.430 - SJR, Q2 - SJR). ISSN 1432-7643. |

Citácie:

*1. [3.1] METCALFE, G. - PAOLI, F. - TSINAKIS, C. Residuated Structures in Algebra and Logic. 2023, AMS, Series: Mathematical Surveys and Monographs, Vol. 277, 2024, 265 pp, ISBN 978-1-4704-6985-6.*

|  |  |
| --- | --- |
| ADCA60 | DVUREČENSKIJ, Anatolij. Agliano-Montagna type decomposition of linear pseudo hoops and its applications. In Journal of Pure and Applied Algebra, 2007, vol. 211, p. 851-861. (2006: 0.470 - IF, Q3 - JCR, 1.106 - SJR, Q1 - SJR). ISSN 0022-4049. |

Citácie:

*1. [3.1] METCALFE, G. - PAOLI, F. - TSINAKIS, C. Residuated Structures in Algebra and Logic. 2023, AMS, Series: Mathematical Surveys and Monographs, Vol. 277, 2024, 265 pp, ISBN 978-1-4704-6985-6.*

|  |  |
| --- | --- |
| ADCA61 | DVUREČENSKIJ, Anatolij. Fuzzy set representations of some quantum structures. In Fuzzy Sets and Systems, 1999, vol. 101, p. 67-78. ISSN 0165-0114. |

Citácie:

*1. [1.1] XIAO, J.Z. - LU, Y. - ZHU, F.Q. Examples, properties and applications of fuzzy inner product spaces. In SOFT COMPUTING. ISSN 1432-7643, JAN 2023, vol. 27, no. 1, p. 239-256. Dostupné na:* [*https://doi.org/10.1007/s00500-022-07584-w*](https://doi.org/10.1007/s00500-022-07584-w)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA62 | DVUREČENSKIJ, Anatolij. On pseudo MV-algebras. In Soft Computing, 2001, vol. 5, p. 347-354. ISSN 1432-7643. |

Citácie:

*1. [1.2] KOLOGANI, M. Aaly - KARAZMA, F. - BORZOOEI, R. A. - JUN, Y. B. SINGLE VALUED NEUTROSOPHIC IDEALS OF PSEUDO MV-ALGEBRAS. In Journal of Algebra and Related Topics, 2023-06-01, 11, 1, pp. 123-136. ISSN 23453931. Dostupné na:* [*https://doi.org/10.22124/jart.2023.22952.1435*](https://doi.org/10.22124/jart.2023.22952.1435)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA63 | DVUREČENSKIJ, Anatolij. Pseudo MV-algebras are intervals in l-groups. In Journal of the Australian Mathematical Society, 2002, vol. 72, p. 427-445. ISSN 1446-7887. |

Citácie:

*1. [1.1] BOTUR, M. - KOWALSKI, T. Kites and representations of pseudo MV-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 158-182. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.014*](https://doi.org/10.1016/j.fss.2022.09.014)*, Registrované v: WOS*

*2. [1.1] RUMP, W. L-algebras and topology. In JOURNAL OF ALGEBRA AND ITS APPLICATIONS. ISSN 0219-4988, FEB 2023, vol. 22, no. 02. Dostupné na:* [*https://doi.org/10.1142/S0219498823500342*](https://doi.org/10.1142/s0219498823500342)*, Registrované v: WOS*

*3. [1.1] RUMP, W. Prime L-algebras and right-angled Artin groups. In SEMIGROUP FORUM. ISSN 0037-1912, APR 2023, vol. 106, no. 2, p. 481-503. Dostupné na:* [*https://doi.org/10.1007/s00233-023-10343-4*](https://doi.org/10.1007/s00233-023-10343-4)*, Registrované v: WOS*

*4. [1.1] RUMP, W. THE CATEGORY OF L-ALGEBRAS. In THEORY AND APPLICATIONS OF CATEGORIES. ISSN 1201-561X, 2023, vol. 39, p. 598-624., Registrované v: WOS*

*5. [3.1] METCALFE, G. - PAOLI, F. - TSINAKIS, C. Residuated Structures in Algebra and Logic. 2023, AMS, Series: Mathematical Surveys and Monographs, Vol. 277, 2024, 265 pp, ISBN 978-1-4704-6985-6.*

|  |  |
| --- | --- |
| ADCA64 | DVUREČENSKIJ, Anatolij. Loomis - Sikorski theorem for sigma-complete MV-algebras and l-groups. In Journal of the Australian Mathematical Society, 2000, vol. 68, p. 261-277. ISSN 1446-7887. |

Citácie:

*1. [1.1] JENCOVá, A. - PULMANNOVá, S. Spectral order unit spaces and JB-algebras. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS. ISSN 0022-247X, APR 15 2023, vol. 520, no. 2. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2022.126911*](https://doi.org/10.1016/j.jmaa.2022.126911)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA65 | DVUREČENSKIJ, Anatolij - RACHUNEK, Jiri. Probabilistic averaging in bounded Rl-monoids. In Semigroup forum, 2006, vol. 72, no. 2, p. 190-206. (2005: 0.383 - IF, Q3 - JCR, 0.773 - SJR, Q2 - SJR). ISSN 0037-1912. |

Citácie:

*1. [1.1] CIUNGU, L.C. Valued quantum B-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 1-18. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.05.002*](https://doi.org/10.1016/j.fss.2022.05.002)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA66 | DVUREČENSKIJ, Anatolij - GIUNTINI, R. - KOWALSKI, Tomasz. On the structure of pseudo BL-algebras and pseudo hoops in quantum logics. In Foundations of Physics, 2010, vol. 40, p. 1519-1542. (2009: 0.805 - IF, Q3 - JCR, 0.520 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0015-9018. Dostupné na: <https://doi.org/10.1007/s10701-009-9342-5> |

Citácie:

*1. [3.1] METCALFE, G. - PAOLI, F. - TSINAKIS, C. Residuated Structures in Algebra and Logic. 2023, AMS, Series: Mathematical Surveys and Monographs, Vol. 277, 2024, 265 pp, ISBN 978-1-4704-6985-6.*

|  |  |
| --- | --- |
| ADCA67 | DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Pseudoeffect algebras. II. Group representation. In International Journal of Theoretical Physics, 2001, vol. 40, p. 703-726. ISSN 0020-7748. |

Citácie:

*1. [1.1] CIUNGU, L.C. Valued quantum B-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 1-18. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.05.002*](https://doi.org/10.1016/j.fss.2022.05.002)*, Registrované v: WOS*

*2. [1.1] RUMP, W. The geometry of discrete L-algebras. In ADVANCES IN GEOMETRY. ISSN 1615-715X, OCT 26 2023, vol. 23, no. 4, p. 543-565. Dostupné na:* [*https://doi.org/10.1515/advgeom-2023-0023*](https://doi.org/10.1515/advgeom-2023-0023)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA68 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. Tensor product of D-posets and D-test spaces. In Reports on Mathematical Physics, 1994, vol. 34, s. 251-275. ISSN 0034-4877. |

Citácie:

*1. [1.1] TKADLEC, J. - ZáCEK, P. Associativity and Distributivity-Like Properties in Generalized Effect Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, JUN 3 2023, vol. 62, no. 6. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05371-3*](https://doi.org/10.1007/s10773-023-05371-3)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA69 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia - SVOZIL, K. Partition logics, orthoalgebras and automata. In Helvetica Physics Acta (now: Annales Henri Poincaré), 1995, vol. 68, s. 407-428. ISSN 0018-0238. |

Citácie:

*1. [1.2] AL-SHEMMARI, Wasan - AL-ADILEE, Ahmed. A notion of positively correlated elements on orthoalgebra. In AIP Conference Proceedings, 2023-03-29, 2591, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0121807*](https://doi.org/10.1063/5.0121807)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA70 | DVUREČENSKIJ, Anatolij - CHOVANEC, Ferdinand. Fuzzy quantum spaces and compatibility. In International Journal of Theoretical Physics, 1988, vol. 27, p. 1069-1082. ISSN 0020-7748. |

Citácie:

*1. [1.2] MOSTAFAVI, Marzieh. Zinf2/inf-graded intuitionistic L-fuzzy q-deformed quantum subspaces of Ainfq/inf. In Notes on Intuitionistic Fuzzy Sets, 2022-01-01, 28, 2, pp. 93-112. ISSN 13104926. Dostupné na:* [*https://doi.org/10.7546/nifs.2022.28.2.93-112*](https://doi.org/10.7546/nifs.2022.28.2.93-112)*, Registrované v: SCOPUS*

*2. [3.1] DUPLIJ, Steven - VOGL, Raimund. Innovative Quantum Computing. IOP Publishing 2023, ISBN 978-0-7503-5279-6, DOI:* [*https://doi.org/10.1088/978-0-7503-5281-9*](https://doi.org/10.1088/978-0-7503-5281-9)

|  |  |
| --- | --- |
| ADCA71 | DVUREČENSKIJ, Anatolij. Regular measures and inner product spaces. In International Journal of Theoretical Physics, 1992, vol. 31, s. 889-905. ISSN 0020-7748. |

Citácie:

*1. [1.1] SUKHAREV, V. A Criterion for Topological Sum Existence in Class of Splitting Subspaces of Inner Product Spaces. In LOBACHEVSKII JOURNAL OF MATHEMATICS. ISSN 1995-0802, JUL 2023, vol. 44, no. 7, p. 2942-2947. Dostupné na:* [*https://doi.org/10.1134/S1995080223070417*](https://doi.org/10.1134/s1995080223070417)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA72 | DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Non-commutative algebras and quantum structures. In International Journal of Theoretical Physics, 2004, vol. 43, s. 1599-1612. ISSN 0020-7748. |

Citácie:

*1. [1.1] RUMP, W. The geometry of discrete L-algebras. In ADVANCES IN GEOMETRY. ISSN 1615-715X, OCT 26 2023, vol. 23, no. 4, p. 543-565. Dostupné na:* [*https://doi.org/10.1515/advgeom-2023-0023*](https://doi.org/10.1515/advgeom-2023-0023)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA73 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. A variety containing EMV-algebras and Pierce sheaves of EMV-algebras. In Fuzzy Sets and Systems, 2021, vol. 418, p. 101-125. (2020: 3.343 - IF, Q1 - JCR, 0.902 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2020.09.011> |

Citácie:

*1. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA74 | DVUREČENSKIJ, Anatolij. Sum of n-dimensional observables on MV-effect algebras. In Soft Computing, 2021, vol. 25, p. 8073-8084. (2020: 3.643 - IF, Q2 - JCR, 0.626 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-021-05911-1> |

Citácie:

*1. [1.1] JANDA, J. OBSERVABLES ON s-FRAME EFFECT ALGEBRAS AS UPPER SEMICONTINUOUS FUNCTIONS. In REPORTS ON MATHEMATICAL PHYSICS. ISSN 0034-4877, JUN 2022, vol. 89, no. 3, p. 291-306. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(22)00034-9*](https://doi.org/10.1016/s0034-4877(22)00034-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA75 | DVUREČENSKIJ, Anatolij\*\* - LACHMAN, Dominik. n-dimensional observables on k-perfect MV-algebras and k-perfect effect algebras. II. One-to-one correspondence. In Fuzzy Sets and Systems, 2022, vol. 442, p. 17-42. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2021.08.027> |

Citácie:

*1. [1.1] JANDA, J. OBSERVABLES ON s-FRAME EFFECT ALGEBRAS AS UPPER SEMICONTINUOUS FUNCTIONS. In REPORTS ON MATHEMATICAL PHYSICS. ISSN 0034-4877, JUN 2022, vol. 89, no. 3, p. 291-306. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(22)00034-9*](https://doi.org/10.1016/s0034-4877(22)00034-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA76 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. Morphisms on EMV-algebras and their applications. In Soft Computing, 2018, vol. 22, no. 22, p. 7519-7537. (2017: 2.367 - IF, Q2 - JCR, 0.593 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-018-3039-7> |

Citácie:

*1. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA77 | DVUREČENSKIJ, Anatolij. On a new construction of pseudo BL-algebras. In Fuzzy Sets and Systems, 2015, vol. 271, p. 156-167. (2014: 1.986 - IF, Q1 - JCR, 1.369 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2014.10.014> |

Citácie:

*1. [1.1] BOTUR, M. - KOWALSKI, T. Kites and representations of pseudo MV-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 158-182. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.014*](https://doi.org/10.1016/j.fss.2022.09.014)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA78 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. The Loomis-Sikorski theorem for EMV-algebras. In Journal of the Australian Mathematical Society, 2019, vol. 106, no. 2, p. 200-234. (2018: 0.602 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1446-7887. Dostupné na: [https://doi.org/10.1017/S1446788718000101](https://doi.org/10.1017/s1446788718000101) |

Citácie:

*1. [1.1] LIU, Hongxing. On topology of maximal ideals of EBL-algebras. In SOFT COMPUTING, 2022, vol. 26, no. 10, pp. 4541-4552. ISSN 1432-7643. Dostupné na:* [*https://doi.org/10.1007/s00500-022-06860-z*](https://doi.org/10.1007/s00500-022-06860-z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA79 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. States on EMV-algebras. In Soft Computing, 2019, vol. 23, no. 17, p. 7513-7536. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-018-03738-x> |

Citácie:

*1. [1.1] MAO, L.L. - XIN, X.L. - ZHANG, S.L. The extension of L-algebras and states. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 35-52. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.10.017*](https://doi.org/10.1016/j.fss.2022.10.017)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA80 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. On EMV-algebras. In Fuzzy Sets and Systems, 2019, vol. 373, p. 116-148. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2019.02.013> |

Citácie:

*1. [1.1] MAO, L.L. - XIN, X.L. - ZHANG, S.L. The extension of L-algebras and states. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 35-52. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.10.017*](https://doi.org/10.1016/j.fss.2022.10.017)*, Registrované v: WOS*

*2. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA81 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Generalized pseudo-EMV-effect algebras. In Soft Computing, 2019, vol. 23, no. 20, p. 9807-9819. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-019-03880-0> |

Citácie:

*1. [1.1] LIU, H.X. On topology of maximal ideals of EBL-algebras. In SOFT COMPUTING. ISSN 1432-7643, MAY 2022, vol. 26, no. 10, p. 4541-4552. Dostupné na:* [*https://doi.org/10.1007/s00500-022-06860-z*](https://doi.org/10.1007/s00500-022-06860-z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA82 | DVUREČENSKIJ, Anatolij\*\* - LACHMAN, Dominik. Spectral resolutions and observables in n-perfect MV-algebras. In Soft Computing, 2020, vol. 24, p. 843-860. (2019: 3.050 - IF, Q2 - JCR, 0.705 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-019-04543-w> |

Citácie:

*1. [1.1] JANDA, J. OBSERVABLES ON s-FRAME EFFECT ALGEBRAS AS UPPER SEMICONTINUOUS FUNCTIONS. In REPORTS ON MATHEMATICAL PHYSICS. ISSN 0034-4877, JUN 2022, vol. 89, no. 3, p. 291-306. Dostupné na:* [*https://doi.org/10.1016/S0034-4877(22)00034-9*](https://doi.org/10.1016/s0034-4877(22)00034-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA83 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Pseudo equality algebras: revision. In Soft Computing, 2016, vol. 20, no. 6, p. 2091-2101. (2015: 1.630 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-015-1888-x> |

Citácie:

*1. [1.1] NIAZIAN, S. - KOLOGANI, M.A. - ARYA, S.H. - BORZOOEI, R.A. ON CO-ANNIHILATORS IN EQUALITY ALGEBRAS. In MISKOLC MATHEMATICAL NOTES. ISSN 1787-2405, 2023, vol. 24, no. 2, p. 933-951. Dostupné na:* [*https://doi.org/10.18514/MMN.2023.3816*](https://doi.org/10.18514/mmn.2023.3816)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA84 | DVUREČENSKIJ, Anatolij - HOLLAND, W. Ch. Some remarks on kite pseudo effect algebras. In International Journal of Theoretical Physics, 2014, vol. 53, s. 1685-1696. (2013: 1.186 - IF, Q3 - JCR, 0.494 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-013-1966-8> |

Citácie:

*1. [1.1] BOTUR, M. - KOWALSKI, T. Beyond wreath and block. In SEMIGROUP FORUM. ISSN 0037-1912, AUG 2022, vol. 105, no. 1, p. 96-116. Dostupné na:* [*https://doi.org/10.1007/s00233-022-10291-5*](https://doi.org/10.1007/s00233-022-10291-5)*, Registrované v: WOS*

*2. [1.1] BOTUR, M. - KOWALSKI, T. Kites and representations of pseudo MV-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 158-182. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.014*](https://doi.org/10.1016/j.fss.2022.09.014)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA85 | DVUREČENSKIJ, Anatolij. Kite Pseudo Effect Algebras. In Foundations of Physics, 2013, vol. 43, s. 1314-1338. (2012: 1.170 - IF, Q3 - JCR, 0.828 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0015-9018. Dostupné na: <https://doi.org/10.1007/s10701-013-9748-y> |

Citácie:

*1. [1.1] BOTUR, M. - KOWALSKI, T. Kites and representations of pseudo MV-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 158-182. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.014*](https://doi.org/10.1016/j.fss.2022.09.014)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA86 | DVUREČENSKIJ, Anatolij. Smearing of observables and spectral measures on quantum structures. In Foundations of Physics, 2013, vol. 43, p. 210-224. (2012: 1.170 - IF, Q3 - JCR, 0.828 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0015-9018. Dostupné na: <https://doi.org/10.1007/s10701-012-9689-x> |

Citácie:

*1. [1.1] BENEDUCI, R. - GENTILE, T. Fuzzy observables and the universal family of fuzzy events. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, SEP 10 2022, vol. 444, SI, p. 206-221. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.03.008*](https://doi.org/10.1016/j.fss.2022.03.008)*, Registrované v: WOS*

*2. [1.1] BENEDUCI, R. Fuzzy Observables: from Weak Markov Kernels to Markov Kernels. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, OCT 16 2023, vol. 62, no. 10. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05475-w*](https://doi.org/10.1007/s10773-023-05475-w)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA87 | DVUREČENSKIJ, Anatolij - RACHUNEK, J. - ŠALOUNOVÁ, D. State operators on generalizations of fuzzy structures. In Fuzzy Sets and Systems, 2012, vol. 187, p. 58-76. (2011: 1.759 - IF, Q1 - JCR, 1.407 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0165-0114. Fuzzy Sets and Systems, 2012, vol.194, p. 97-99. (2011: 1.759 - IF, Q1 - JCR, 1.407 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0165-0114. Erratum publikované vo vol. 194. Dostupné na: <https://doi.org/10.1016/j.fss.2011.12.007> |

Citácie:

*1. [1.1] WOUMFO, F. - ALOMO, E.R.T. - LELE, C. The prime state ideal theorem in state residuated lattices. In PHYSICAL REVIEW RESEARCH. MAR 7 2023, vol. 5, no. 1, p. 131-153. Dostupné na:* [*https://doi.org/10.52547/cgasa.18.1.131*](https://doi.org/10.52547/cgasa.18.1.131)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA88 | FEČKAN, Michal - AIZICOVICI, Sergiu. Forced symmetric oscillations of evolution equations. In Nonlinear Analysis, 2006, vol. 64, no. 7, s. 1621-1640. ISSN 0362-546X. |

Citácie:

*1. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. 1-543. Dostupné na:* [*https://doi.org/10.1515/9783111233871*](https://doi.org/10.1515/9783111233871)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA89 | FEČKAN, Michal - ROTHOS, Vassilis M. Travelling waves of discrete nonlinear Schrödinger equations with nonlocal interactions. In Applicable Analysis, 2010, vol. 89, no. 9, p. 1387-1411. (2009: 0.613 - IF, Q3 - JCR, karentované - CCC). (2010 - Current Contents). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036810903208130> |

Citácie:

*1. [1.1] HENNIG, D. - KARACHALIOS, N.I. Periodic traveling wave solutions of discrete nonlinear Klein-Gordon lattices. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, NOV 30 2023, vol. 46, no. 17, p. 18400-18419. Dostupné na:* [*https://doi.org/10.1002/mma.9566*](https://doi.org/10.1002/mma.9566)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA90 | FEČKAN, Michal. Singularly perturbed higher order boundary value problems. In Journal Differential Equations, 1994, vol. 111, no. 1, p. 79-102. ISSN 0022-0396. Dostupné na: <https://doi.org/10.1006/jdeq.1994.1076> |

Citácie:

*1. [1.1] SINGH, S. - KUMAR, D. - SHANTHI, V. Uniformly convergent scheme for fourth-order singularly perturbed convection-diffusion ODE. In APPLIED NUMERICAL MATHEMATICS. ISSN 0168-9274, APR 2023, vol. 186, p. 334-357. Dostupné na:* [*https://doi.org/10.1016/j.apnum.2023.01.020*](https://doi.org/10.1016/j.apnum.2023.01.020)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA91 | FEČKAN, Michal. Melnikov functions and singularly perturbed ordinary differential equations. In Nonlinear Analysis, 1992, vol. 19, s. 393-401. ISSN 0362-546X. Dostupné na: [https://doi.org/10.1016/0362-546X(92)90183-F](https://doi.org/10.1016/0362-546x(92)90183-f) |

Citácie:

*1. [1.1] LI, S.Q. - ZHOU, L.Q. Chaos analysis for a class of impulse Duffing-van der Pol system. In ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES. ISSN 0932-0784, MAY 25 2023, vol. 78, no. 5, p. 395-403. Dostupné na:* [*https://doi.org/10.1515/zna-2023-0005*](https://doi.org/10.1515/zna-2023-0005)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA92 | FEČKAN, Michal - ROTHOS, Vassilis M. Travelling waves in Hamiltonian systems on 2D lattices with nearest neighbour interactions. In Nonlinearity, 2007, vol. 20, no. 2, p. 319-341. ISSN 0951-7715. Dostupné na: <https://doi.org/10.1088/0951-7715/20/2/005> |

Citácie:

*1. [1.2] BAK, S. M. - KOVTONYUK, G. M. PERODIC TRAVELING WAVES IN FERMI-PASTA-ULAM TYPE SYSTEMS WITH NONLOCAL INTERACTION ON 2D-LATTICE. In Matematychni Studii, 2023-01-01, 60, 2, pp. 180-190. ISSN 10274634. Dostupné na:* [*https://doi.org/10.30970/ms.60.2.180-190*](https://doi.org/10.30970/ms.60.2.180-190)*, Registrované v: SCOPUS*

*2. [1.2] BAK, Sergiy M. - KOVTONYUK, Galyna M. Existence of traveling solitary waves in Fermi–Pasta–Ulam-type systems with saturable nonlinearities on 2D-lattice. In Journal of Mathematical Sciences (United States), 2023-02-01, 270, 3, pp. 397-406. ISSN 10723374. Dostupné na:* [*https://doi.org/10.1007/s10958-023-06353-w*](https://doi.org/10.1007/s10958-023-06353-w)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA93 | FEČKAN, Michal. Parametrized singularly perturbed boundary value problems. In Journal of Mathematical Analysis and Applications, 1994, vol. 188, no. 2, p. 426-435. ISSN 0022-247X. Dostupné na: <https://doi.org/10.1006/jmaa.1994.1436> |

Citácie:

*1. [1.1] SINGH, S. - CHOUDHARY, R. - KUMAR, D. An efficient numerical technique for two-parameter singularly perturbed problems having discontinuity in convection coefficient and source term. In COMPUTATIONAL & APPLIED MATHEMATICS. ISSN 2238-3603, FEB 2023, vol. 42, no. 1. Dostupné na:* [*https://doi.org/10.1007/s40314-023-02196-y*](https://doi.org/10.1007/s40314-023-02196-y)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA94 | FEČKAN, Michal - POSPÍŠIL, Michal. Note on fractional difference Gronwall inequalities. In Electronic Journal of Qualitative Theory of Differential Equations, 2014, vol. 44, s. 1-18. (2013: 0.638 - IF, Q2 - JCR, 0.642 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1417-3875. |

Citácie:

*1. [1.1] HAMADNEH, T. - HIOUAL, A. - ALSAYYED, O. - AL-KHASSAWNEH, Y.A. - AL-HUSBAN, A. - OUANNAS, A. Finite Time Stability Results for Neural Networks Described by Variable-Order Fractional Difference Equations. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080616*](https://doi.org/10.3390/fractalfract7080616)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA95 | FEČKAN, Michal - WANG, JinRong - ZHAO, Hou Yu\*\*. Maximal and minimal nondecreasing bounded solutions of iterative functional differential equations. In Applied Mathematics Letters, 2021, vol. 113, p. 1-7. (2020: 4.055 - IF, Q1 - JCR, 1.439 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0893-9659. Dostupné na: <https://doi.org/10.1016/j.aml.2020.106886> |

Citácie:

*1. [1.1] ALZABUT, J. - KHUDDUSH, M. - SELVAM, A.G.M. - VIGNESH, D. Second Order Iterative Dynamic Boundary Value Problems with Mixed Derivative Operators with Applications. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, MAR 2023, vol. 22, no. 1. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00736-1*](https://doi.org/10.1007/s12346-022-00736-1)*, Registrované v: WOS*

*2. [1.1] ASGHAR, S.A. - NAZ, S. - RAJA, M.A.Z. Intelligent computing with the knack of Bayesian neural networks for functional differential systems in Quantum calculus model. In INTERNATIONAL JOURNAL OF MODERN PHYSICS B. ISSN 0217-9792, SEP 10 2023, vol. 37, no. 22. Dostupné na:* [*https://doi.org/10.1142/S021797922350217X*](https://doi.org/10.1142/s021797922350217x)*, Registrované v: WOS*

*3. [1.1] GHALIA, S. - AFFANE, D. On the Attainable Set of Iterative Differential Inclusions. In MATHEMATICA SLOVACA. ISSN 0139-9918, DEC 1 2023, vol. 73, no. 6, p. 1479-1498. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0107*](https://doi.org/10.1515/ms-2023-0107)*, Registrované v: WOS*

*4. [1.1] GöZEN, M. ON THE EXISTENCE AND UNIQUENESS OF POSITIVE PERIODIC SOLUTIONS OF NEUTRAL DIFFERENTIAL EQUATIONS. In JOURNAL OF NONLINEAR AND VARIATIONAL ANALYSIS. ISSN 2560-6921, 2023, vol. 7, no. 3, p. 367-379. Dostupné na:* [*https://doi.org/10.23952/jnva.7.2023.3.03*](https://doi.org/10.23952/jnva.7.2023.3.03)*, Registrované v: WOS*

*5. [1.1] MEZGHICHE, L. - KHEMIS, R. On Periodic Solutions of a Recruitment Model with Iterative Terms and a Nonlinear Harvesting. In BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA. ISSN 0037-8712, 2023, vol. 41, p. 10-10. Dostupné na:* [*https://doi.org/10.5269/bspm.62662*](https://doi.org/10.5269/bspm.62662)*, Registrované v: WOS*

*6. [1.1] ZHENG, F.M. - WANG, X.J. - CHENG, X.W. - DU, B. Infinitely Many Positive Solutions to Nonlinear First-Order Iterative Systems of Singular BVPs on Time Scales. In SYMMETRY-BASEL. AUG 2023, vol. 15, no. 8. Dostupné na:* [*https://doi.org/10.3390/sym15081524*](https://doi.org/10.3390/sym15081524)*, Registrované v: WOS*

*7. [1.2] KHEMIS, Rabah. Existence, uniqueness and stability of positive periodic solutions for an iterative Nicholson's blowflies equation. In Journal of Applied Mathematics and Computing, 2023-04-01, 69, 2, pp. 1903-1916. ISSN 15985865. Dostupné na:* [*https://doi.org/10.1007/s12190-022-01820-0*](https://doi.org/10.1007/s12190-022-01820-0)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA96 | FEČKAN, Michal - LI, Qixiang - WANG, JinRong\*\*. Existence and Ulam-Hyers stability of positive solutions for a nonlinear model for the Antarctic Circumpolar Current. In Monatshefte für Mathematik, 2022, vol. 197, no. 3, p. 419-434. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01618-5> |

Citácie:

*1. [1.1] ONITSUKA, M. APPROXIMATION OF LIMIT CYCLE OF DIFFERENTIAL SYSTEMS WITH VARIABLE COEFFICIENTS. In ARCHIVUM MATHEMATICUM. ISSN 1212-5059, 2023, vol. 59, no. 1, p. 85-97. Dostupné na:* [*https://doi.org/10.5817/AM2023-1-85*](https://doi.org/10.5817/am2023-1-85)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA97 | FEČKAN, Michal - POSPÍŠIL, Michal\*\* - DANCA, Marius-F. - WANG, JinRong. Caputo delta weakly fractional difference equations. In Fractional Calculus and Applied Analysis, 2022, vol. 25, p. 2222-2240. (2021: 3.451 - IF, Q1 - JCR, 1.435 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1311-0454. Dostupné na: <https://doi.org/10.1007/s13540-022-00093-5> |

Citácie:

*1. [1.1] ALMUSAWA, M.Y. - MOHAMMED, P.O. Approximation of sequential fractional systems of Liouville-Caputo type by discrete delta difference operators. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, NOV 2023, vol. 176. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.114098*](https://doi.org/10.1016/j.chaos.2023.114098)*, Registrované v: WOS*

*2. [1.1] HERNáNDEZ-GALVáN, B.L. - PULIDO-LUNA, J.R. - CAZAREZ-CASTRO, N.R. - FERNáNDEZ-ANAYA, G. - LóPEZ-RENTERíA, J.A. Caputo';s fractional discrete-time stability connection for stabilizing controllers. In IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION. ISSN 0265-0754, SEP 20 2023, vol. 40, no. 3, p. 578-592. Dostupné na:* [*https://doi.org/10.1093/imamci/dnad021*](https://doi.org/10.1093/imamci/dnad021)*, Registrované v: WOS*

*3. [1.1] MA, L. - FAN, D.H. On discrete tempered fractional calculus and its application. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, JUN 2023, vol. 26, no. 3, p. 1384-1420. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00163-2*](https://doi.org/10.1007/s13540-023-00163-2)*, Registrované v: WOS*

*4. [3.1] MAMMAN, J. O. Computational algorithm for approximating fractional derivatives of functions, Journal of Modeling and Simulation of Materials 5(1), 31-38, 2022, DOI: 10.21467/jmsm.5.1.31-38*

|  |  |
| --- | --- |
| ADCA98 | FEČKAN, Michal - LIU, Kui - WANG, JinRong\*\*. (ω, T)-periodic solutions of impulsive evolution equations. In Evolution Equations and Control Theory, 2022, vol. 11, no. 2, p. 415-437. (2021: 1.169 - IF, Q2 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2163-2480. Dostupné na: <https://doi.org/10.3934/eect.2021006> |

Citácie:

*1. [1.1] AL-OMARI, A. - AL-SAADI, H. (ω,ρ)-BVP Solution of Impulsive Hadamard Fractional Differential Equations. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204370*](https://doi.org/10.3390/math11204370)*, Registrované v: WOS*

*2. [1.1] ALVAREZ, E. - DíAZ, S. - GRAU, R. (ω, Q)-periodic mild solutions for a class of semilinear abstract differential equations and applications to Hopfield-type neural network model. In ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK. ISSN 0044-2275, APR 2023, vol. 74, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00033-023-01943-9*](https://doi.org/10.1007/s00033-023-01943-9)*, Registrované v: WOS*

*3. [1.1] ALVAREZ, E. - GRAU, R. - MERIñO, R. (ω, c)-periodic solutions for a class of fractional integrodifferential equations. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, APR 7 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01726-1*](https://doi.org/10.1186/s13661-023-01726-1)*, Registrované v: WOS*

*4. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. 1-543. Dostupné na:* [*https://doi.org/10.1515/9783111233871*](https://doi.org/10.1515/9783111233871)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA99 | FEČKAN, Michal\*\* - KOSTIC, Marko - VELINOV, Daniel. (ω, ρ)-BVP Solutions of Impulsive Differential Equations of Fractional Order on Banach Spaces. In Mathematics, 2023, vol. 11, art. no. 3086. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11143086>   (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] AL-OMARI, A. - AL-SAADI, H. (ω,ρ)-BVP Solution of Impulsive Hadamard Fractional Differential Equations. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204370*](https://doi.org/10.3390/math11204370)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA100 | FEČKAN, Michal\*\* - MARYNETS, Kateryna. Approximation approach to periodic BVP for mixed fractional differential systems. In Journal of Computational and Applied Mathematics, 2018, vol. 339, p. 208-217. (2017: 1.632 - IF, Q1 - JCR, 0.938 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0377-0427. Dostupné na: <https://doi.org/10.1016/j.cam.2017.10.028> |

Citácie:

*1. [1.1] VAN ANH, N.T. ASYMPTOTICALLY PERIODIC SOLUTIONS FOR FRACTIONAL DIFFERENTIAL VARIATIONAL INEQUALITIES. In FIXED POINT THEORY. ISSN 1583-5022, 2023, vol. 24, no. 2, p. 459-486. Dostupné na:* [*https://doi.org/10.24193/fpt-ro.2023.2.02*](https://doi.org/10.24193/fpt-ro.2023.2.02)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA101 | FEČKAN, Michal - MARYNETS, Kateryna. Approximation approach to periodic BVP for fractional differential systems. In The European Physical Journal Special Topics, 2017, vol. 226, no. 16-18, p. 3681-3692. (2016: 1.862 - IF, Q2 - JCR, 0.581 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjst/e2018-00017-9> |

Citácie:

*1. [1.1] DILNA, N. GENERAL EXACT SOLVABILITY CONDITIONS FOR THE INITIAL VALUE PROBLEMS FOR LINEAR FRACTIONAL FUNCTIONAL DIFFERENTIAL EQUATIONS. In ARCHIVUM MATHEMATICUM. ISSN 1212-5059, 2023, vol. 59, no. 1, p. 11-19. Dostupné na:* [*https://doi.org/10.5817/AM2023-1-11*](https://doi.org/10.5817/am2023-1-11)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA102 | FEČKAN, Michal - MARYNETS, Kateryna - WANG, JinRong. Periodic boundary value problems for higher-order fractinal differential systems. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3616-3632. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.5601> |

Citácie:

*1. [1.1] LIU, L. - DONG, Q.X. - LI, G. Exact solutions and finite time stability for higher fractional-order differential equations with pure delay. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JAN 30 2023, vol. 46, no. 2, p. 2334-2353. Dostupné na:* [*https://doi.org/10.1002/mma.8648*](https://doi.org/10.1002/mma.8648)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA103 | FEČKAN, Michal\*\* - WANG, JinRong. Periodic impulsive fractional differential equations. In Advances in Nonlinear Analysis, 2019, vol. 8, no. 1, p. 482-496. (2018: 6.636 - IF, Q1 - JCR, 3.215 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2191-9496. Dostupné na: <https://doi.org/10.1515/anona-2017-0015> |

Citácie:

*1. [1.1] ALSHEEKHHUSSAIN, Z. - IBRAHIM, A.G. - RAMADAN, R.A. Existence of S -asymptotically ω-periodic solutions for non-instantaneous impulsive semilinear di fferential equations and inclusions of fractional order 1 < α < 2. In AIMS MATHEMATICS. 2023, vol. 8, no. 1, p. 76-101. Dostupné na:* [*https://doi.org/10.3934/math.2023004*](https://doi.org/10.3934/math.2023004)*, Registrované v: WOS*

*2. [1.1] LIU, Y.T. Global Exponential Stability and Synchronization of Discrete-Time Fuzzy Bidirectional Associative Memory Neural Networks via Mittag-Leffler Difference Approach. In INTERNATIONAL JOURNAL OF FUZZY SYSTEMS. ISSN 1562-2479, JUL 2023, vol. 25, no. 5, p. 1922-1934. Dostupné na:* [*https://doi.org/10.1007/s40815-023-01482-5*](https://doi.org/10.1007/s40815-023-01482-5)*, Registrované v: WOS*

*3. [1.1] PHU, N.D. - HOA, N.V. Mittag-Leffler stability of random-order fractional nonlinear uncertain dynamic systems with impulsive effects. In NONLINEAR DYNAMICS. ISSN 0924-090X, MAY 2023, vol. 111, no. 10, p. 9409-9430. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08340-x*](https://doi.org/10.1007/s11071-023-08340-x)*, Registrované v: WOS*

*4. [1.1] TIAN, M.Q. - LUO, D.F. Existence and Finite-Time Stability Results for Impulsive Caputo-Type Fractional Stochastic Differential Equations with Time Delays. In MATHEMATICA SLOVACA. ISSN 0139-9918, APR 1 2023, vol. 73, no. 2, p. 387-406. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0030*](https://doi.org/10.1515/ms-2023-0030)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA104 | FEČKAN, Michal - POSPÍŠIL, Michal. Bifurcation of sliding periodic orbits in periodically forced discontinuous systems. In Nonlinear Analysis: Real World Applications, 2013, vol. 14, no. 1, p. 150-162. (2012: 2.201 - IF, Q1 - JCR, 1.813 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1468-1218. Dostupné na: <https://doi.org/10.1016/j.nonrwa.2012.05.009> |

Citácie:

*1. [1.1] LOLA, M.Y. - ROMANIC, K. - BECEAU, P.F. Bursting Phenomenon and Chaos Phase Control in Plant Dynamics. In COMPLEXITY. ISSN 1076-2787, FEB 17 2023, vol. 2023. Dostupné na:* [*https://doi.org/10.1155/2023/3206434*](https://doi.org/10.1155/2023/3206434)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA105 | FEČKAN, Michal - WANG, JinRong - ZHOU, Yong. Controllability of fractional functional evolution equations of Sobolev type via characteristic solution operators. In Journal of Optimization Theory and Applications, 2013, vol. 156, no. 1, p. 79-95. (2012: 1.423 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-3239. Dostupné na: <https://doi.org/10.1007/s10957-012-0174-7> |

Citácie:

*1. [1.1] MA, Y.K. - RAJA, M.M. - SHUKLA, A. - VIJAYAKUMAR, V. - NISAR, K.S. - THILAGAVATHI, K. New results on approximate controllability of fractional delay integrodifferential systems of order 1 &lt;r &lt; 2 with Sobolev-type. In ALEXANDRIA ENGINEERING JOURNAL. ISSN 1110-0168, OCT 15 2023, vol. 81, p. 501-518. Dostupné na:* [*https://doi.org/10.1016/j.aej.2023.09.043*](https://doi.org/10.1016/j.aej.2023.09.043)*, Registrované v: WOS*

*2. [1.1] RAJA, M.M. - VIJAYAKUMAR, V. Approximate controllability results for the Sobolev type fractional delay impulsive integrodifferential inclusions of order r ? (1,2) via sectorial operator. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, AUG 2023, vol. 26, no. 4, p. 1740-1769. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00167-y*](https://doi.org/10.1007/s13540-023-00167-y)*, Registrované v: WOS*

*3. [1.1] YANG, H. - LI, Y.X. APPROXIMATE CONTROLLABILITY OF RIEMANN-LIOUVILLE FRACTIONAL STOCHASTIC EVOLUTION SYSTEMS. In JOURNAL OF APPLIED ANALYSIS AND COMPUTATION. ISSN 2156-907X, OCT 2023, vol. 13, no. 5, p. 2809-2826. Dostupné na:* [*https://doi.org/10.11948/20230006*](https://doi.org/10.11948/20230006)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA106 | FERNANDEZ-PERALTA, Raquel\*\* - MASSANET, Sebastia - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MIR, Arnau. A general framework for the characterization of (S,N)-implications with a non-continuous negation based on completions of t-conorms. In Fuzzy Sets and Systems, 2022, vol. 441, p. 1-32. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2021.06.009> |

Citácie:

*1. [1.1] DANIILIDOU, A. - KONGUETSOF, A. - SOULIOTIS, G. - PAPADOPOULOS, B. Generator of Fuzzy Implications. In ALGORITHMS. DEC 2023, vol. 16, no. 12. Dostupné na:* [*https://doi.org/10.3390/a16120569*](https://doi.org/10.3390/a16120569)*, Registrované v: WOS*

*2. [1.1] PINHEIRO, J. - SANTOS, H. - DIMURO, G.P. - BEDREGAL, B. - SANTIAGO, R.H.N. - FERNANDEZ, J. - BUSTINCE, H. On Fuzzy Implications Derived from General Overlap Functions and Their Relation to Other Classes. In AXIOMS. JAN 2023, vol. 12, no. 1. Dostupné na:* [*https://doi.org/10.3390/axioms12010017*](https://doi.org/10.3390/axioms12010017)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA107 | FIGEDY, S. - OKŠA, Gabriel. Modern Methods of Signal Processing in the Loose Part Monitoring System. In Progress in Nuclear Energy, 2005, vol. 46, no. 3-4, p. 253-267. (2004: 0.284 - IF, Q4 - JCR, 0.578 - SJR, Q1 - SJR, karentované - CCC). (2005 - Current Contents). ISSN 0149-1970. Dostupné na: <https://doi.org/10.1016/j.pnucene.2005.03.008> |

Citácie:

*1. [1.1] KHENTOUT, N. - MAGROTTI, G. Fault supervision of nuclear research reactor systems using artificial neural networks: A review with results. In ANNALS OF NUCLEAR ENERGY. ISSN 0306-4549, JUN 1 2023, vol. 185. Dostupné na:* [*https://doi.org/10.1016/j.anucene.2023.109684*](https://doi.org/10.1016/j.anucene.2023.109684)*, Registrované v: WOS*

*2. [1.1] LEE, H. - YU, K. - KIM, S. Discrimination model using denoising autoencoder-based majority vote classification for reducing false alarm rate. In NUCLEAR ENGINEERING AND TECHNOLOGY. ISSN 1738-5733, OCT 2023, vol. 55, no. 10, p. 3716-3724. Dostupné na:* [*https://doi.org/10.1016/j.net.2023.06.037*](https://doi.org/10.1016/j.net.2023.06.037)*, Registrované v: WOS*

*3. [1.1] SU, Y.B. - CHEN, R.Y. - WU, Q.C. - LIU, C. - XIE, S.L. - ZHANG, Y.H. Mass estimation of loose parts based on virtual experiment. In PROGRESS IN NUCLEAR ENERGY. ISSN 0149-1970, MAY 2023, vol. 159. Dostupné na:* [*https://doi.org/10.1016/j.pnucene.2023.104626*](https://doi.org/10.1016/j.pnucene.2023.104626)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA108 | FOMINA-YADLINA, Dina - KUBICEKA, Stefan - WALPITA, Deepika - DANČÍK, Vladimír - ETC. Small-molecule inducers of insulin expression in pancreatic α-cells. D. Fomina-Yadlin, S. Kubicek, D. Walpita, V. Dančik. In Proceedings of the National Academy of Sciences of the United States of America, 2010, vol. 107, no. 34, p. 15099-15104. (2009: 9.432 - IF, 7.025 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0027-8424. Dostupné na: <https://doi.org/10.1073/pnas.1010018107> |

Citácie:

*1. [1.1] DECOURT, C. - SCHAEFFER, J. - BLOT, B. - PACCARD, A. - EXCOFFIER, B. - PENDE, M. - NAWABI, H. - BELIN, S. The RSK2-RPS6 axis promotes axonal regeneration in the peripheral and central nervous systems. In PLOS BIOLOGY. ISSN 1544-9173, APR 2023, vol. 21, no. 4. Dostupné na:* [*https://doi.org/10.1371/journal.pbio.3002044*](https://doi.org/10.1371/journal.pbio.3002044)*, Registrované v: WOS*

*2. [1.1] FU, W. - JIANG, H.W. - LI, J. Artemether treatment improves islet function and metabolic homeostasis in diabetic nonhuman primates. In JOURNAL OF DIABETES. ISSN 1753-0393, JAN 2023, vol. 15, no. 1, p. 76-80. Dostupné na:* [*https://doi.org/10.1111/1753-0407.13347*](https://doi.org/10.1111/1753-0407.13347)*, Registrované v: WOS*

*3. [1.1] KOUTSOUGIANNI, F. - ALEXOPOULOU, D. - UVEZ, A. - LAMPRIANIDOU, A. - SERETI, E. - TSIMPLOULI, C. - ARMUTAK, E.I. - DIMAS, K. P90 ribosomal S6 kinases: A bona fide target for novel targeted anticancer therapies?. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952,   
  
APR 2023, vol. 210. Dostupné na:* [*https://doi.org/10.1016/j.bcp.2023.115488*](https://doi.org/10.1016/j.bcp.2023.115488)*, Registrované v: WOS*

*4. [1.1] QIN, L.S. - ZHANG, D.D. - LIU, S.Y. - LIU, Q.H. - LIU, M.X. - HUANG, B. Dissecting the molecular trajectory of fibroblast reprogramming to chemically induced mammary epithelial cells. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, AUG 2 2023, vol. 11. Dostupné na:* [*https://doi.org/10.3389/fcell.2023.1194070*](https://doi.org/10.3389/fcell.2023.1194070)*, Registrované v: WOS*

*5. [1.1] SUN, Y. - TANG, L.C. - WU, C.Y. - WANG, J.X. - WANG, C.D. RSK inhibitors as potential anticancer agents: Discovery, optimization, and challenges. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, MAY 5 2023, vol. 251. Dostupné na:* [*https://doi.org/10.1016/j.ejmech.2023.115229*](https://doi.org/10.1016/j.ejmech.2023.115229)*, Registrované v: WOS*

*6. [1.1] WRIGHT, E.B. - LANNIGAN, D.A. Therapeutic targeting of p90 ribosomal S6 kinase. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, DEC 19 2023, vol. 11. Dostupné na:* [*https://doi.org/10.3389/fcell.2023.1297292*](https://doi.org/10.3389/fcell.2023.1297292)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA109 | FRANCA, M.\*\* - POSPÍŠIL, Michal. New global bifurcation diagrams for piecewise smooth systems: Transversality of homoclinic points does not imply chaos. In Journal of Differential Equations, 2019, vol. 266, no. 2-3, p. 1429-1461. (2018: 1.938 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2018.07.078> |

Citácie:

*1. [1.1] GJATA, O. - ZANOLIN, F. An Application of the Melnikov Method to a Piecewise Oscillator. In CONTEMPORARY MATHEMATICS. ISSN 2705-1064, 2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.37256/cm.4220232160*](https://doi.org/10.37256/cm.4220232160)*, Registrované v: WOS*

*2. [1.1] HUA, D. - LIU, X.B. Dynamical analysis in a piecewise smooth predator-prey model with predator harvesting. In INTERNATIONAL JOURNAL OF BIOMATHEMATICS. ISSN 1793-5245, AUG 2023, vol. 16, no. 06. Dostupné na:* [*https://doi.org/10.1142/S1793524522501182*](https://doi.org/10.1142/s1793524522501182)*, Registrované v: WOS*

*3. [1.1] JIANG, J.K. - DU, Z.D. Heteroclinic bifurcation in a quasi-periodically excited rigid rocking block with two frequencies. In SOIL DYNAMICS AND EARTHQUAKE ENGINEERING. ISSN 0267-7261, FEB 2023, vol. 165. Dostupné na:* [*https://doi.org/10.1016/j.soildyn.2022.107677*](https://doi.org/10.1016/j.soildyn.2022.107677)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA110 | GEMBAROVIČ, J. - VOZÁR, L. - MAJERNÍK, Vladimír. Using the least-square method for data reduction in the flash method. In International Journal of Heat and Mass Transfer, 1990, vol. 7, s. 1563-1565. ISSN 0017-9310. |

Citácie:

*1. [1.1] CARR, E.J. - FILIPPINI, L.P. Analytical formulas for calculating the thermal diffusivity of cylindrical shell and spherical shell samples. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, MAR 2023, vol. 202. Dostupné na:* [*https://doi.org/10.1016/j.ijheatmasstransfer.2022.123693*](https://doi.org/10.1016/j.ijheatmasstransfer.2022.123693)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA111 | GEMBAROVIČ, J. - MAJERNÍK, Vladimír. Non-fourier propagation of heat pulses in finite medium. In International Journal of Heat and Mass Transfer, 1988, vol. 31, s. 1073-1080. ISSN 0017-9310. |

Citácie:

*1. [1.1] IVANOVA, E.A. A new approach to modeling of thermal and electrical conductivities by means of the Cosserat continuum. In CONTINUUM MECHANICS AND THERMODYNAMICS. ISSN 0935-1175, SEP 2022, vol. 34,   
  
no. 5, p. 1313-1342. Dostupné na:* [*https://doi.org/10.1007/s00161-022-01127-2*](https://doi.org/10.1007/s00161-022-01127-2)*, Registrované v: WOS*

*2. [1.1] IVANOVA, E.A. Modeling of thermal and electrical conductivities by means of a viscoelastic Cosserat continuum. In CONTINUUM MECHANICS AND THERMODYNAMICS. ISSN 0935-1175, MAR 2022, vol. 34, no. 2, p. 555-586. Dostupné na:* [*https://doi.org/10.1007/s00161-021-01071-7*](https://doi.org/10.1007/s00161-021-01071-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA112 | GIRARD, Mark - PLÁVALA, Martin - SIKORA, Jamie. Jordan products of quantum channels and their compatibility. In Nature Communications, 2021, vol. 12, art. no. 2129. (2020: 14.919 - IF, Q1 - JCR, 5.559 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-021-22275-0> |

Citácie:

*1. [1.1] GüHNE, O. - HAAPASALO, E. - KRAFT, T. - PELLONPää, J.P. - UOLA, R. Colloquium: Incompatible measurements in quantum information science. In REVIEWS OF MODERN PHYSICS. ISSN 0034-6861, FEB 6 2023, vol. 95, no. 1. Dostupné na:* [*https://doi.org/10.1103/RevModPhys.95.011003*](https://doi.org/10.1103/revmodphys.95.011003)*, Registrované v: WOS*

*2. [1.1] JIA, Z. - SONG, M. - KASZLIKOWSKI, D. Quantum space-time marginal problem: global causal structure from local causal information. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, DEC 1 2023, vol. 25, no. 12. Dostupné na:* [*https://doi.org/10.1088/1367-2630/ad1416*](https://doi.org/10.1088/1367-2630/ad1416)*, Registrované v: WOS*

*3. [1.1] KU, H.Y. - LEE, K.Y. - LAI, P.R. - LIN, J.D. - CHEN, Y.N. Coherent activation of a steerability-breaking channel. In PHYSICAL REVIEW A. ISSN 2469-9926, APR 12 2023, vol. 107, no. 4. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.042415*](https://doi.org/10.1103/physreva.107.042415)*, Registrované v: WOS*

*4. [1.1] MITRA, A. - FARKAS, M. Characterizing and quantifying the incompatibility of quantum instruments. In PHYSICAL REVIEW A. ISSN 2469-9926, MAR 24 2023, vol. 107, no. 3. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.032217*](https://doi.org/10.1103/physreva.107.032217)*, Registrované v: WOS*

*5. [1.1] PARZYGNAT, A.J. - FULLWOOD, J. From Time-Reversal Symmetry to Quantum Bayes'; Rules. In PRX QUANTUM. JUN 2 2023, vol. 4, no. 2. Dostupné na:* [*https://doi.org/10.1103/PRXQuantum.4.020334*](https://doi.org/10.1103/prxquantum.4.020334)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA113 | GIUNTINI, R. - PULMANNOVÁ, Sylvia. Ideals and congruences in effect algebras and qmv-algebras. In Communications in Algebra, 2000, vol. 28, no. 3, p. 1567-1592. ISSN 0092-7872. |

Citácie:

*1. [1.1] CIUNGU, L.C. Implicative-orthomodular algebras. In BULLETIN OF THE BELGIAN MATHEMATICAL SOCIETY-SIMON STEVIN. ISSN 1370-1444, DEC 2023, vol. 30, no. 4, p. 510-531. Dostupné na:* [*https://doi.org/10.36045/j.bbms.230508*](https://doi.org/10.36045/j.bbms.230508)*, Registrované v: WOS*

*2. [1.1] SHI, F.G. - WEI, X.W. Interval convexity of scale effect algebras. In COMMUNICATIONS IN ALGEBRA. ISSN 0092-7872, JUL 3 2023, vol. 51, no. 7, p. 2877-2894. Dostupné na:* [*https://doi.org/10.1080/00927872.2023.2173765*](https://doi.org/10.1080/00927872.2023.2173765)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA114 | GOLDSTERN, M. - REPICKÝ, Miroslav - SHELAH, S. - SPINAS, O. On tree ideals. M. Goldstern, M. Repický, S. Shelah, O. Spinas. In Proceedings of American Mathematical Society, 1995, vol. 123, no. 5, p. 1573-1581. ISSN 0002-9939. |

Citácie:

*1. [1.1] KHOMSKII, Yurii - KOELBING, Marlene - LAGUZZI, Giorgio - WOHOFSKY, Wolfgang. Laver Trees in the Generalized Baire Space. In ISRAEL JOURNAL OF MATHEMATICS, 2023, vol. 255, no. 2, pp. 599-620. ISSN 0021-2172. Dostupné na:* [*https://doi.org/10.1007/s11856-022-2465-5*](https://doi.org/10.1007/s11856-022-2465-5)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA115 | GOULD, H.W. - KAUCKÝ, Josef. Evaluation of a class of binomial coefficient summations. In Journal of Combinatorial Theory, Series A, 1966, vol. 1, no. 2, s. 233-247. ISSN 0097-3165. |

Citácie:

*1. [1.1] SOKAL, Alan D. Total positivity of some polynomial matrices that enumerate labeled trees and forests I: forests of rooted labeled trees. In MONATSHEFTE FUR MATHEMATIK, 2023, vol. 200, no. 2, pp. 389-452. ISSN 0026-9255. Dostupné na:* [*https://doi.org/10.1007/s00605-022-01687-0*](https://doi.org/10.1007/s00605-022-01687-0)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA116 | GRAEF, John R.\*\* - JADLOVSKÁ, Irena - TUNC, Ercan. Oscillation of Odd-Order Differential Equations with a Nonpositive Sublinear Neutral Term and Distributed Deviating Arguments. In Applicable Analysis and Discrete Mathematics, 2022, vol. 16, no. 2, p. 350-364. (2021: 1.414 - IF, Q1 - JCR, 0.807 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1452-8630. Dostupné na: [https://doi.org/10.2298/AADM200918012G](https://doi.org/10.2298/aadm200918012g) |

Citácie:

*1. [1.1] ALRASHDI, H.S. - MOAAZ, O. - ALNEMER, G. - ELABBASY, E.M. High-Order Nonlinear Functional Differential Equations: New Monotonic Properties and Their Applications. In FRACTAL AND FRACTIONAL. MAR 2023, vol. 7, no. 3. Dostupné na:* [*https://doi.org/10.3390/fractalfract7030271*](https://doi.org/10.3390/fractalfract7030271)*, Registrované v: WOS*

*2. [1.1] SUN, Y.B. - ZHAO, Y.G. - XIE, Q.Q. Oscillation and Asymptotic Behavior of the Third-Order Neutral Differential Equation with Damping and Distributed Deviating Arguments. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, JUN 2023, vol. 22, no. 2. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00733-4*](https://doi.org/10.1007/s12346-022-00733-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA117 | GREECHIE, R. - FOULIS, D. - PULMANNOVÁ, Sylvia. The center of an effect algebra. In Order, 1995, vol. 12, no. 1, p. 91-106. ISSN 0167-8094. |

Citácie:

*1. [1.1] WU, Y.L. - LI, X. - WANG, J. Notes on Sharp and Principal Elements in Effect Algebras. In ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS. ISSN 0167-8094, OCT 2023, vol. 40, no. 3, p. 525-536. Dostupné na:* [*https://doi.org/10.1007/s11083-022-09619-1*](https://doi.org/10.1007/s11083-022-09619-1)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA118 | GRENDÁR, Marián - JUDGE, George G. Asymptotic equivalence of empirical likelihood and Bayesian MAP. In Annals of Statistics, 2009, vol. 37, no. 5A, p. 2445-2457. (2008: 2.307 - IF, Q1 - JCR, 5.203 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0090-5364. Dostupné na: [https://doi.org/10.1214/08-AOS645](https://doi.org/10.1214/08-aos645) |

Citácie:

*1. [1.1] GHOSH, S. - CHAUDHURI, S. - GANGOPADHYAY, U. Maximum Likelihood Estimation Under Constraints: Singularities and Random Critical Points. In IEEE TRANSACTIONS ON INFORMATION THEORY. ISSN 0018-9448, DEC 2023, vol. 69, no. 12, p. 7976-7997. Dostupné na:* [*https://doi.org/10.1109/TIT.2023.3317436*](https://doi.org/10.1109/tit.2023.3317436)*, Registrované v: WOS*

*2. [1.1] OUYANG, J.R. - BONDELL, H. Bayesian analysis of longitudinal data via empirical likelihood. In COMPUTATIONAL STATISTICS & DATA ANALYSIS. ISSN 0167-9473, NOV 2023, vol. 187. Dostupné na:* [*https://doi.org/10.1016/j.csda.2023.107785*](https://doi.org/10.1016/j.csda.2023.107785)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA119 | GUAN, Yi - FEČKAN, Michal - WANG, JinRong. Periodic Solutions and Hyers-Ulam Stability of Atmospheric Ekman Flows. In Discrete and Continuous Dynamical Systems, 2021, vol. 41, no. 3, p. 1157-1176. (2020: 1.392 - IF, Q2 - JCR, 1.289 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1078-0947. Dostupné na: <https://doi.org/10.3934/dcds.2020313> |

Citácie:

*1. [1.1] SAYYARI, Y. - DEHGHANIAN, M. - PARK, C. STABILITY AND SOLUTION OF TWO FUNCTIONAL EQUATIONS IN UNITAL ALGEBRAS. In KOREAN JOURNAL OF MATHEMATICS. ISSN 1976-8605, 2023, vol. 31, no. 3, p. 363-372. Dostupné na:* [*https://doi.org/10.11568/kjm.2023.31.3.363*](https://doi.org/10.11568/kjm.2023.31.3.363)*, Registrované v: WOS*

*2. [1.2] CIEPLIŃSKI, Krzysztof. On perturbations of two general equations in several variables. In Mathematische Annalen, 2023-02-01, 385, 1-2, pp. 921-937. ISSN 00255831. Dostupné na:* [*https://doi.org/10.1007/s00208-022-02359-y*](https://doi.org/10.1007/s00208-022-02359-y)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA120 | GUTA, Madalin - JENČOVÁ, Anna. Local Asymptotic Normality in Quantum Statistics. In Communications in Mathematical Physics, 2007, vol. 276, no. 2, p. 341-379. (2006: 2.077 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR). ISSN 0010-3616. |

Citácie:

*1. [1.1] FUJIWARA, Akio - YAMAGATA, Koichi. EFFICIENCY OF ESTIMATORS FOR LOCALLY ASYMPTOTICALLY NORMAL QUANTUM STATISTICAL MODELS. In ANNALS OF STATISTICS, 2023, vol. 51, no. 3, pp. 1159-1182. ISSN 0090-5364. Dostupné na:* [*https://doi.org/10.1214/23-AOS2285*](https://doi.org/10.1214/23-aos2285)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA121 | HALAŠ, Radomír - PÓCS, Jozef - PÓCSOVÁ, Jana\*\*. On Join-Dense Subsets of Certain Families of Aggregation Functions. In Mathematics, 2023, vol. 11, no. 1, art. nr. 14. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11010014> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |

Citácie:

*1. [1.2] KURAČ, Zbyněk. Transfer-stable aggregation functions: Applications, challenges, and emerging trends. In Decision Analytics Journal, 2023-06-01, 7, art. nr. 100210. Dostupné na:* [*https://doi.org/10.1016/j.dajour.2023.100210*](https://doi.org/10.1016/j.dajour.2023.100210)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA122 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef\*\*. On the number of aggregation functions on finite chains as a generalization of Dedekind numbers. In Fuzzy Sets and Systems, 2023, vol. 466, art. nr. 108441. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2022.11.012> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |

Citácie:

*1. [1.1] ADERYANI, S.R. - SAADATI, R. - O';REGAN, D. - LI, C.K. On a New Approach for Stability and Controllability Analysis of Functional Equations. In MATHEMATICS. AUG 2023, vol. 11, no. 16, art. nr. 3458. Dostupné na:* [*https://doi.org/10.3390/math11163458*](https://doi.org/10.3390/math11163458)*, Registrované v: WOS*

*2. [1.1] ADERYANI, S.R. - SAADATI, R. - RASSIAS, T.M. - SRIVASTAVA, H.M. Existence, Uniqueness and the Multi-Stability Results for a W-Hilfer Fractional Differential Equation. In AXIOMS. JUL 2023, vol. 12, no. 7, art. nr. 681. Dostupné na:* [*https://doi.org/10.3390/axioms12070681*](https://doi.org/10.3390/axioms12070681)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA123 | HALAŠ, Radomír\*\* - KURAČ, Zbyněk - PÓCS, Jozef. On the minimality of some generating sets of the aggregation clone on a finite chain. In Information Sciences, 2021, vol. 564, p. 193-201. (2020: 6.795 - IF, Q1 - JCR, 1.524 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2021.02.070> |

Citácie:

*1. [1.1] QIAO, J.S. D-overlap functions: Construction, characterization and ordinal sum representation. In INFORMATION SCIENCES. ISSN 0020-0255, MAY 2023, vol. 627, p. 1-19. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.01.078*](https://doi.org/10.1016/j.ins.2023.01.078)*, Registrované v: WOS*

*2. [1.1] QIAO, Junsheng. Irreducible quasi-D-overlap functions: Matrix representation and diagonal generation. In FUZZY SETS AND SYSTEMS, 2023, vol. 471, art nr. 108681. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108681*](https://doi.org/10.1016/j.fss.2023.108681)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA124 | HALAŠ, Radomír\*\* - PÓCS, Jozef - PÓCSOVÁ, Jana. Remarks on Sugeno Integrals on Bounded Lattices. In Mathematics, 2022, vol. 10, no. 17, art. no. 3078. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10173078> |

Citácie:

*1. [1.1] CARDIN, M. Rights Systems and Aggregation Functions on Property Spaces. In MATHEMATICS. SEP 2023, vol. 11, no. 17, art. nr. 3709. Dostupné na:* [*https://doi.org/10.3390/math11173709*](https://doi.org/10.3390/math11173709)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA125 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef\* - TORRA, Vincenç. A note on some algebraic properties of discrete Sugeno integrals. In Fuzzy Sets and Systems, 2019, vol. 355, p. 110-120. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2018.01.009> |

Citácie:

*1. [1.1] KHAN, M.B. - GUIRAO, J.L.G. Riemann Liouville fractional-like integral operators, convex-like real-valued mappings and their applications over fuzzy domain. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, DEC 2023, vol. 177, art. nr. 114196. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.114196*](https://doi.org/10.1016/j.chaos.2023.114196)*, Registrované v: WOS*

*2. [1.1] KHASTAN, A. - RODRíGUEZ-LóPEZ, R. Some aspects on computation of scalar valued and fuzzy valued integrals over fuzzy domains. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, MAY-JUN 2023, vol. 20, no. 3, p. 1-17., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA126 | HALAŠ, Radomír - PÓCS, Jozef. On the clone of aggregation functions on bounded lattices. In Information Sciences, 2016, vol. 329, p. 381-389. (2015: 3.364 - IF, Q1 - JCR, 1.960 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2015.09.038> |

Citácie:

*1. [1.1] ABOLPOUR, K. A new characterization of congruences and the discrete Sugeno integral on LB-valued general fuzzy automata. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAY 30 2023, vol. 460, p. 186-199. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.01.012*](https://doi.org/10.1016/j.fss.2023.01.012)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA127 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. A new characterization of the discrete Sugeno integral. In Information Fusion, 2016, vol. 29, p. 84-86. (2015: 4.353 - IF, Q1 - JCR, 1.586 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1566-2535. Dostupné na: <https://doi.org/10.1016/j.inffus.2015.08.008> |

Citácie:

*1. [1.1] ABOLPOUR, K. A new characterization of congruences and the discrete Sugeno integral on LB-valued general fuzzy automata. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAY 30 2023, vol. 460, p. 186-199. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.01.012*](https://doi.org/10.1016/j.fss.2023.01.012)*, Registrované v: WOS*

*2. [1.1] CARDIN, M. Rights Systems and Aggregation Functions on Property Spaces. In MATHEMATICS. SEP 2023, vol. 11, no. 17, art. nr. 3709. Dostupné na:* [*https://doi.org/10.3390/math11173709*](https://doi.org/10.3390/math11173709)*, Registrované v: WOS*

*3. [1.1] CHITESCU, I. - GIURGESCU, M. - PLAVITU, A. Computing Sugeno integrals. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, AUG 15 2023, vol. 465, art nr. 108513. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.03.016*](https://doi.org/10.1016/j.fss.2023.03.016)*, Registrované v: WOS*

*4. [1.1] KHAN, M.B. - GUIRAO, J.L.G. Riemann Liouville fractional-like integral operators, convex-like real-valued mappings and their applications over fuzzy domain. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, DEC 2023, vol. 177, art. nr. 114196. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.114196*](https://doi.org/10.1016/j.chaos.2023.114196)*, Registrované v: WOS*

*5. [1.1] KHASTAN, A. - RODRíGUEZ-LóPEZ, R. Some aspects on computation of scalar valued and fuzzy valued integrals over fuzzy domains. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, MAY-JUN 2023, vol. 20, no. 3, p. 1-17., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA128 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Congruences and the discrete Sugeno integrals on bounded distributive lattices. In Information Sciences, 2016, vol. 367-368, p. 443-448. (2015: 3.364 - IF, Q1 - JCR, 1.960 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2016.06.017> |

Citácie:

*1. [1.1] CARDIN, M. Rights Systems and Aggregation Functions on Property Spaces. In MATHEMATICS. SEP 2023, vol. 11, no. 17, art. nr. 3709. Dostupné na:* [*https://doi.org/10.3390/math11173709*](https://doi.org/10.3390/math11173709)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA129 | HALAŠ, Radomír - PÓCS, Jozef. Generalized one-sided concept lattices with attribute preferences. In Information Sciences, 2015, vol. 303, p. 50-60. (2014: 4.038 - IF, Q1 - JCR, 2.226 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2015.01.009> |

Citácie:

*1. [1.1] ZHI, H.L. - LI, Y.N. Attribute granulation in fuzzy formal contexts based on L-fuzzy concepts. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING. ISSN 0888-613X, AUG 2023, vol. 159, art. nr. 108947. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2023.108947*](https://doi.org/10.1016/j.ijar.2023.108947)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA130 | HALAŠ, Radomír - PÓCS, Jozef. On lattices with a smallest set of aggregation functions. In Information Sciences, 2015, vol. 325, p. 316-323. (2014: 4.038 - IF, Q1 - JCR, 2.226 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2015.07.031> |

Citácie:

*1. [1.1] ABOLPOUR, K. A new characterization of congruences and the discrete Sugeno integral on LB-valued general fuzzy automata. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAY 30 2023, vol. 460, p. 186-199. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.01.012*](https://doi.org/10.1016/j.fss.2023.01.012)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA131 | HASIL, Petr - KISEĽÁK, Jozef - POSPÍŠIL, Michal - VESELÝ, Michal\*\*. Nonoscillation of half-linear dynamic equations on time scales. In Mathematical Methods in the Applied Sciences, 2021, vol. 44, no. 11, p. 8775-8797. (2020: 2.321 - IF, Q1 - JCR, 0.719 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.7304> |

Citácie:

*1. [1.1] SISOLáKOVá, J. Oscillation of linear and half-linear difference equations via modified Riccati transformation. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS. ISSN 0022-247X, DEC 15 2023, vol. 528, no. 2. art. nr. 127526, 19 p. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127526*](https://doi.org/10.1016/j.jmaa.2023.127526)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA132 | HOLÁ, Ľubica - HOLÝ, Dušan. Minimal usco maps, densely continuous forms and upper semicontinuous functions. In Rocky Mountain Journal of Mathematics, 2009, vol. 39, no. 2, s. 545-562. (2008: 0.354 - IF, Q4 - JCR, 0.441 - SJR, Q3 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0035-7596. |

Citácie:

*1. [1.1] FU, Jing - PAGE, Frank. A fixed point theorem for measurable selection valued correspondences induced by upper Caratheodory correspondences. In JOURNAL OF FIXED POINT THEORY AND APPLICATIONS, 2023, vol. 25, no. 1, pp. ISSN 1661-7738. Dostupné na:* [*https://doi.org/10.1007/s11784-022-01000-4*](https://doi.org/10.1007/s11784-022-01000-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA133 | HOLÁ, Ľubica. Hausdorff metric on the space of upper semicontinuous multifunctions. In Rocky Mountain Journal of Mathematics, 1992, vol. 22, no. 2, p. 601-610. ISSN 0035-7596. |

Citácie:

*1. [1.2] KUNDU, Subiman - AGGARWAL, Manisha. METRIC SPACES AND RELATED ANALYSIS. In Metric Spaces and Related Analysis, 2023-01-01, pp. 1-257. Dostupné na:* [*https://doi.org/10.1142/13486*](https://doi.org/10.1142/13486)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA134 | HOLÁ, Ľubica. There are 2c Quasicontinuous Non Borel Functions on Uncountable Polish Space. In Results in Mathematics, 2021, vol. 76, no. 3, art. no. 126. (2020: 1.199 - IF, Q2 - JCR, 0.742 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-6383. Dostupné na: <https://doi.org/10.1007/s00025-021-01440-3> |

Citácie:

*1. [1.1] NORMANN, D. - SANDERS, S. The Biggest Five of Reverse Mathematics. In JOURNAL OF MATHEMATICAL LOGIC. ISSN 0219-0613, 2023 OCT 6 2023. Dostupné na:* [*https://doi.org/10.1142/S0219061324500077*](https://doi.org/10.1142/s0219061324500077)*, Registrované v: WOS*

*2. [1.1] SANDERS, S. BIG IN REVERSE MATHEMATICS: MEASURE AND CATEGORY. In JOURNAL OF SYMBOLIC LOGIC. ISSN 0022-4812, 2023 OCT 17 2023. Dostupné na:* [*https://doi.org/10.1017/jsl.2023.65*](https://doi.org/10.1017/jsl.2023.65)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA135 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. Topology of uniform convergence and m-topology on C (X). In Mediterranean Journal of Mathematics, 2017, vol. 14, no. 2, art. no. 70. (2016: 0.868 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-017-0861-6> |

Citácie:

*1. [1.1] CHAUHAN, T.K. - JINDAL, V. CLOPEN LINEAR SUBSPACES AND CONNECTEDNESS IN FUNCTION SPACES. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS. ISSN 0035-7596, OCT 2023, vol. 53, no. 5, p. 1415-1430. Dostupné na:* [*https://doi.org/10.1216/rmj.2023.53.1415*](https://doi.org/10.1216/rmj.2023.53.1415)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA136 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. On normality of the Wijsman topology. In Annali di Matematica Pura ed Applicata, 2013, vol. 192, s. 349-359. (2012: 0.680 - IF, Q2 - JCR, 1.020 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0373-3114. Dostupné na: <https://doi.org/10.1007/s10231-011-0227-9> |

Citácie:

*1. [1.2] BASHIR, Zia - ULLAH, Asad. A study on the normality of Wijsman topology of a fuzzy metric space. In Soft Computing, 2023-01-01, 27, 1, pp. 17-23. ISSN 14327643. Dostupné na:* [*https://doi.org/10.1007/s00500-022-07547-1*](https://doi.org/10.1007/s00500-022-07547-1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA137 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. Cardinal functions, bornologies and function spaces. In Annali di Matematica Pura ed Applicata, 2014, vol. 193, s. 1319-1327. (2013: 0.909 - IF, Q1 - JCR, 0.911 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0373-3114. Dostupné na: <https://doi.org/10.1007/s10231-013-0330-1> |

Citácie:

*1. [1.1] CHAUHAN, T.K. - JINDAL, V. CLOPEN LINEAR SUBSPACES AND CONNECTEDNESS IN FUNCTION SPACES. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS. ISSN 0035-7596, OCT 2023, vol. 53, no. 5, p. 1415-1430. Dostupné na:* [*https://doi.org/10.1216/rmj.2023.53.1415*](https://doi.org/10.1216/rmj.2023.53.1415)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA138 | HOLÁ, Ľubica - HOLÝ, Dušan. Pointwise convergence of quasicontinuous mappings and Baire spaces. In Rocky Mountain Journal of Mathematics, 2011, vol. 41, p. 1883-1894. (2010: 0.443 - IF, Q3 - JCR, 0.622 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0035-7596. Dostupné na: [https://doi.org/10.1216/RMJ-2011-41-6-1883](https://doi.org/10.1216/rmj-2011-41-6-1883) |

Citácie:

*1. [2.2] MATEJDES, Milan. A FEW VARIANTS OF QUASI-CONTINUITY IN BITOPOLOGICAL SPACES. In Tatra Mountains Mathematical Publications, 2023-11-01, 85, 3, pp. 27-44. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2023-0022*](https://doi.org/10.2478/tmmp-2023-0022)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA139 | HOLÁ, Ľubica. Complete metrizability of topologies of strong uniform convergence on bornologies. In Journal of Mathematical Analysis and Applications, 2012, vol. 387, p. 770-775. (2011: 1.001 - IF, Q1 - JCR, 1.578 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2011.09.031> |

Citácie:

*1. [1.1] CHAUHAN, T.K. - JINDAL, V. CLOPEN LINEAR SUBSPACES AND CONNECTEDNESS IN FUNCTION SPACES. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS. ISSN 0035-7596, OCT 2023, vol. 53, no. 5, p. 1415-1430. Dostupné na:* [*https://doi.org/10.1216/rmj.2023.53.1415*](https://doi.org/10.1216/rmj.2023.53.1415)*, Registrované v: WOS*

*2. [1.2] BEER, Gerald. Bornologies and Lipschitz Analysis. In Bornologies and Lipschitz Analysis, 2023-01-01, pp. 1-232. Dostupné na:* [*https://doi.org/10.1201/9781003047377*](https://doi.org/10.1201/9781003047377)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA140 | HOSPODÁR, Michal. Power, positive closure, and quotients on convex languages. In Theoretical Computer Science, 2021, vol. 870, p. 53-74. (2020: 0.827 - IF, Q4 - JCR, 0.464 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2021.02.002> |

Citácie:

*1. [1.1] JIRASKOVA, G. Operations on Boolean and Alternating Finite Automata. In ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE. ISSN 2075-2180, 2023, vol. 386, p. 3-10. Dostupné na:* [*https://doi.org/10.4204/EPTCS.386.1*](https://doi.org/10.4204/eptcs.386.1)*, Registrované v: WOS*

*2. [1.1] MOSHKOV, M. Decision Trees for Binary Subword-Closed Languages. In ENTROPY. FEB 2023, vol. 25, no. 2. Dostupné na:* [*https://doi.org/10.3390/e25020349*](https://doi.org/10.3390/e25020349)*, Registrované v: WOS*

*3. [1.1] OLEJÁR, V. - SZABARI, A. Closure Properties of Subregular Languages Under Operations. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2023 MAY 4 2023. Dostupné na:* [*https://doi.org/10.1142/S0129054123450016*](https://doi.org/10.1142/s0129054123450016)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA141 | HOSPODÁR, Michal\*\* - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In RAIRO : Theoretical Informatics and Applications, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754. Dostupné na: <https://doi.org/10.1051/ita/2018011> |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA142 | HU, Kan - NEDELA, Roman - ŠKOVIERA, Martin - WANG, Naer. Regular embeddings of cycles with multiple edges revisited. In Ars Mathematica Contemporanea, 2015, vol. 8, no. 1, p. 177-194. (2014: 0.741 - IF, Q2 - JCR, 1.023 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS). ISSN 1855-3966. |

Citácie:

*1. [1.1] DU, S.F. - TIAN, Y. - LI, X.G. Orientably-regular p-maps and regular p-maps. In JOURNAL OF COMBINATORIAL THEORY SERIES A. ISSN 0097-3165, JUL 2023, vol. 197. Dostupné na:* [*https://doi.org/10.1016/j.jcta.2023.105754*](https://doi.org/10.1016/j.jcta.2023.105754)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA143 | HUCK, A. - KOCHOL, Martin. Five cycle double covers of some cubic graphs. In Journal of Combinatorial Theory, Series B, 1995, vol. 64, p. 119-125. ISSN 0095-8956. |

Citácie:

*1. [1.1] LIU, S.Y. - HAO, R.X. - LUO, R. - ZHANG, C.Q. 5-CYCLE DOUBLE COVERS, 4-FLOWS, AND CATLIN REDUCTION. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 1, p. 253-267. Dostupné na:* [*https://doi.org/10.1137/22M1472425*](https://doi.org/10.1137/22m1472425)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA144 | HUTNÍK, Ondrej - PÓCS, Jozef. On ⋆- associated comonotone functions. In Kybernetika, 2018, vol. 54, no. 2, p. 268-278. (2017: 0.632 - IF, Q4 - JCR, 0.321 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0023-5954. Dostupné na: <https://doi.org/10.14736/kyb-2018-2-0268> |

Citácie:

*1. [1.1] LUAN, T.N. - HOANG, D.H. - THUYET, T.M. On the coincidence of lower and upper generalized Sugeno integrals. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, APR 15 2023, vol. 457, p. 169-179. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.04.013*](https://doi.org/10.1016/j.fss.2022.04.013)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA145 | CHEN, Dan - FEČKAN, Michal - WANG, JinRong\*\*. On the Stability of Linear Quaternion-Valued Differential Equations. In Qualitative Theory of Dynamical Systems, 2022, vol. 21, no. 1, art. no. 9, p. 1-17. (2021: 0.931 - IF, Q3 - JCR, 0.358 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-021-00540-3> |

Citácie:

*1. [1.1] ZAHID, M. - YOUNUS, A. - GHONEIM, M.E. - YASSEN, M.F. - HAIDER, J.A. Quaternion-valued exponential matrices and its fundamental properties. In INTERNATIONAL JOURNAL OF MODERN PHYSICS B. ISSN 0217-9792, JAN 30 2023, vol. 37, no. 03. Dostupné na:* [*https://doi.org/10.1142/S0217979223500273*](https://doi.org/10.1142/s0217979223500273)*, Registrované v: WOS*

*2. [1.2] HITZER, Eckhard. Quaternion Fourier Transform. In Trends in Mathematics, 2023-01-01, part F1249, pp. 1-58. ISSN 22970215. Dostupné na:* [*https://doi.org/10.1007/978-3-031-28375-8\_1*](https://doi.org/10.1007/978-3-031-28375-8_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA146 | CHEN, Dan - FEČKAN, Michal - WANG, JinRong\*\*. Investigation of Controllability and Observability for Linear Quaternion-Valued Systems from Its Complex-Valued Systems. In Qualitative Theory of Dynamical Systems, 2022, vol. 21, art. no. 66. (2021: 0.931 - IF, Q3 - JCR, 0.358 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-022-00599-6> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA147 | CHETCUTI, Emmanuel - DVUREČENSKIJ, Anatolij. A finitely additive state criterion for completeness of inner product spaces. In Letters in Mathematical Physics, 2003, vol. 64, s. 221-227. ISSN 0377-9017. |

Citácie:

*1. [1.1] MATOUSEK, M. - PTáK, P. Orthosystems of submodules of a module. In COMMUNICATIONS IN ALGEBRA. ISSN 0092-7872, JUN 3 2023, vol. 51, no. 6, p. 2460-2471. Dostupné na:* [*https://doi.org/10.1080/00927872.2022.2164008*](https://doi.org/10.1080/00927872.2022.2164008)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA148 | CHETCUTI, Emmanuel - DVUREČENSKIJ, Anatolij. A finitely additive state criterion for the completeness of inner product spaces. In Letters in Mathematical Physics, 2003, vol. 63, s. 221-227. ISSN 0377-9017. |

Citácie:

*1. [1.1] MATOUSEK, M. - PTáK, P. Orthosystems of submodules of a module. In COMMUNICATIONS IN ALGEBRA. ISSN 0092-7872, JUN 3 2023, vol. 51, no. 6, p. 2460-2471. Dostupné na:* [*https://doi.org/10.1080/00927872.2022.2164008*](https://doi.org/10.1080/00927872.2022.2164008)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA149 | JADLOVSKÁ, Irena. New Criteria for Sharp Oscillation of Second-Order Neutral Delay Differential Equations. In Mathematics, 2021, vol. 9, no. 17, art. no. 2089, p. 1-23. (2020: 2.258 - IF, Q1 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math9172089> |

Citácie:

*1. [1.1] ABDELNASER, A. - MOAAZ, O. - CESARANO, C. - ASKAR, S. - ELABBASY, E.M. Oscillation Test for Second-Order Differential Equations with Several Delays. In SYMMETRY-BASEL. FEB 2023, vol. 15, no. 2. Dostupné na:* [*https://doi.org/10.3390/sym15020452*](https://doi.org/10.3390/sym15020452)*, Registrované v: WOS*

*2. [1.1] ALMARRI, B. - MOAAZ, O. - ABOUELREGAL, A.E. - ESSAM, A. New Comparison Theorems to Investigate the Asymptotic Behavior of Even-Order Neutral Differential Equations. In SYMMETRY-BASEL. MAY 22 2023, vol. 15, no. 5. Dostupné na:* [*https://doi.org/10.3390/sym15051126*](https://doi.org/10.3390/sym15051126)*, Registrované v: WOS*

*3. [1.1] ALNAFISAH, Y. - MASOOD, F. - MUHIB, A. - MOAAZ, O. Improved Oscillation Theorems for Even-Order Quasi-Linear Neutral Differential Equations. In SYMMETRY-BASEL. MAY 22 2023, vol. 15, no. 5. Dostupné na:* [*https://doi.org/10.3390/sym15051128*](https://doi.org/10.3390/sym15051128)*, Registrované v: WOS*

*4. [1.1] ALNEMER, G. - MUHSIN, W. - MOAAZ, O. - ELABBASY, E.M. On the Positive Decreasing Solutions of Half-Linear Delay Differential Equations of Even Order. In MATHEMATICS. MAR 2023, vol. 11, no. 6. Dostupné na:* [*https://doi.org/10.3390/math11061282*](https://doi.org/10.3390/math11061282)*, Registrované v: WOS*

*5. [1.1] BOJICIC, R. - PETKOVIC, M.D. Oscillation criteria for a second order half-linear differential equation with delay, with monotone nondecreasing delay function. In COMPUTATIONAL & APPLIED MATHEMATICS. ISSN 2238-3603, DEC 2023, vol. 42, no. 8. Dostupné na:* [*https://doi.org/10.1007/s40314-023-02448-x*](https://doi.org/10.1007/s40314-023-02448-x)*, Registrované v: WOS*

*6. [1.1] ESSAM, A. - MOAAZ, O. - RAMADAN, M. - ALNEMER, G. - HANAFY, I.M. Improved results for testing the oscillation of functional differential equations with multiple delays. In AIMS MATHEMATICS. 2023, vol. 8, no. 11, p. 28051-28070. Dostupné na:* [*https://doi.org/10.3934/math.20231435*](https://doi.org/10.3934/math.20231435)*, Registrované v: WOS*

*7. [1.1] GRACE, S.R. - GRAEF, J.R. - LI, T.X. - TUNC, E. Oscillatory behavior of second-order nonlinear noncanonical neutral differential equations. In ACTA UNIVERSITATIS SAPIENTIAE-MATHEMATICA. ISSN 1844-6094, DEC 1 2023, vol. 15, no. 2, p. 259-271. Dostupné na:* [*https://doi.org/10.2478/ausm-2023-0014*](https://doi.org/10.2478/ausm-2023-0014)*, Registrované v: WOS*

*8. [1.1] MASOOD, F. - MOAAZ, O. - ALNEMER, G. - EL-METWALLY, H. New Monotonic Properties for Solutions of a Class of Functional Differential Equations and Their Applications. In SYMMETRY-BASEL. OCT 2023, vol. 15, no. 10. Dostupné na:* [*https://doi.org/10.3390/sym15101956*](https://doi.org/10.3390/sym15101956)*, Registrované v: WOS*

*9. [1.1] MOAAZ, O. - ALBALAWI, W. Differential equations of the neutral delay type: More efficient conditions for oscillation. In AIMS MATHEMATICS. 2023, vol. 8, no. 6, p. 12729-12750. Dostupné na:* [*https://doi.org/10.3934/math.2023641*](https://doi.org/10.3934/math.2023641)*, Registrované v: WOS*

*10. [1.1] MOAAZ, O. - ALHGILAN, A.E. A Study of the Monotonic Properties of Solutions of Neutral Differential Equations and Their Applications. In AXIOMS. APR 2023, vol. 12, no. 4. Dostupné na:* [*https://doi.org/10.3390/axioms12040346*](https://doi.org/10.3390/axioms12040346)*, Registrované v: WOS*

*11. [1.1] MOAAZ, O. - CESARANO, C. - ALMARRI, B. An Improved Relationship between the Solution and Its Corresponding Function in Fourth-Order Neutral Differential Equations and Its Applications. In MATHEMATICS. APR 2023, vol. 11, no. 7. Dostupné na:* [*https://doi.org/10.3390/math11071708*](https://doi.org/10.3390/math11071708)*, Registrované v: WOS*

*12. [1.1] NABIH, A. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - ELABBASY, E.M. Fourth-Order Neutral Differential Equation: A Modified Approach to Optimizing Monotonic Properties. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204380*](https://doi.org/10.3390/math11204380)*, Registrované v: WOS*

*13. [1.1] SALAH, H. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - ELABBASY, E.M. Optimizing the Monotonic Properties of Fourth-Order Neutral Differential Equations and Their Applications. In SYMMETRY-BASEL. SEP 2023, vol. 15, no. 9. Dostupné na:* [*https://doi.org/10.3390/sym15091744*](https://doi.org/10.3390/sym15091744)*, Registrované v: WOS*

*14. [1.2] MOAAZ, O. - QANDOS, S. - ALQEFARI, R. Monotonic and Asymptotic Properties of Solutions of Emden-Fowler Neutral Differential Equations and Their Applications. In Applied Mathematics and Information Sciences, 2023, Vol. 17, no. 3, p. 513-520, dostupné na: DOI 10.18576/AMIS/170319.*

|  |  |
| --- | --- |
| ADCA150 | JADLOVSKÁ, Irena - CHATZARAKIS, George E. - DŽURINA, Jozef - GRACE, Said R. On Sharp Oscillation Criteria for General Third-Order Delay Differential Equations. In Mathematics, 2021, vol. 9, no. 14, art. no. 1675, p. 1-18. (2020: 2.258 - IF, Q1 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math9141675> |

Citácie:

*1. [1.1] ALRASHDI, H.S. - MOAAZ, O. - ALNEMER, G. - ELABBASY, E.M. High-Order Nonlinear Functional Differential Equations: New Monotonic Properties and Their Applications. In FRACTAL AND FRACTIONAL. MAR 2023, vol. 7, no. 3. Dostupné na:* [*https://doi.org/10.3390/fractalfract7030271*](https://doi.org/10.3390/fractalfract7030271)*, Registrované v: WOS*

*2. [1.1] HASSAN, T.S. - EL-MATARY, B.M. Asymptotic Behavior and Oscillation of Third-Order Nonlinear Neutral Differential Equations with Mixed Nonlinearities. In MATHEMATICS. JAN 2023, vol. 11, no. 2. Dostupné na:* [*https://doi.org/10.3390/math11020424*](https://doi.org/10.3390/math11020424)*, Registrované v: WOS*

*3. [1.1] MASOOD, F. - CESARANO, C. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - EL-METWALLY, H. Kneser-Type Oscillation Criteria for Half-Linear Delay Differential Equations of Third Order. In SYMMETRY-BASEL. NOV 2023, vol. 15, no. 11. Dostupné na:* [*https://doi.org/10.3390/sym15111994*](https://doi.org/10.3390/sym15111994)*, Registrované v: WOS*

*4. [1.1] MASOOD, F. - MOAAZ, O. - ALNEMER, G. - EL-METWALLY, H. More Effective Criteria for Testing the Asymptotic and Oscillatory Behavior of Solutions of a Class of Third-Order Functional Differential Equations. In AXIOMS. DEC 2023, vol. 12, no. 12. Dostupné na:* [*https://doi.org/10.3390/axioms12121112*](https://doi.org/10.3390/axioms12121112)*, Registrované v: WOS*

*5. [1.1] MOAAZ, O. - ALBALAWI, W. New Results for the Investigation of the Asymptotic Behavior of Solutions of Nonlinear Perturbed Differential Equations. In AXIOMS. SEP 2023, vol. 12, no. 9. Dostupné na:* [*https://doi.org/10.3390/axioms12090841*](https://doi.org/10.3390/axioms12090841)*, Registrované v: WOS*

*6. [1.1] MOAAZ, O. - ALNAFISAH, Y. An Improved Approach to Investigate the Oscillatory Properties of Third-Order Neutral Differential Equations. In MATHEMATICS. MAY 15 2023, vol. 11, no. 10. Dostupné na:* [*https://doi.org/10.3390/math11102290*](https://doi.org/10.3390/math11102290)*, Registrované v: WOS*

*7. [1.1] MOAAZ, O. - CESARANO, C. - ALMARRI, B. An Improved Relationship between the Solution and Its Corresponding Function in Fourth-Order Neutral Differential Equations and Its Applications. In MATHEMATICS. APR 2023, vol. 11, no. 7. Dostupné na:* [*https://doi.org/10.3390/math11071708*](https://doi.org/10.3390/math11071708)*, Registrované v: WOS*

*8. [1.1] MUHSIN, W. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - ELABBASY, E.M. Delay Differential Equations with Several Sublinear Neutral Terms: Investigation of Oscillatory Behavior. In SYMMETRY-BASEL. DEC 2023, vol. 15, no. 12. Dostupné na:* [*https://doi.org/10.3390/sym15122105*](https://doi.org/10.3390/sym15122105)*, Registrované v: WOS*

*9. [1.1] OMAR, N. - MOAAZ, O. - ALNEMER, G. - ELABBASY, E.M. New Results on the Oscillation of Solutions of Third-Order Differential Equations with Multiple Delays. In SYMMETRY-BASEL. OCT 2023, vol. 15, no. 10. Dostupné na:* [*https://doi.org/10.3390/sym15101920*](https://doi.org/10.3390/sym15101920)*, Registrované v: WOS*

*10. [1.1] SRINIVASAN, R. - SARAVANAN, S. - THANDAPANI, E. - TUNç, E. Oscillation Of Noncanonical Third-Order Delay Differential Equations Via Canonical Transform. In APPLIED MATHEMATICS E-NOTES. 2023, vol. 23, p. 265-273., Registrované v: WOS*

*11. [1.1] SUN, Y.B. - ZHAO, Y.G. - XIE, Q.Q. Oscillation and Asymptotic Behavior of the Third-Order Neutral Differential Equation with Damping and Distributed Deviating Arguments. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, JUN 2023, vol. 22, no. 2. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00733-4*](https://doi.org/10.1007/s12346-022-00733-4)*, Registrované v: WOS*

*12. [1.1] TUNç, E. - SARIGüL, M. OSCILLATION CRITERIA FOR ODD-ORDER NEUTRAL DIFFERENTIAL EQUATIONS WITH DISTRIBUTED DEVIATING ARGUMENTS. In DIFFERENTIAL EQUATIONS & APPLICATIONS. ISSN 1847-120X, MAY 2023, vol. 15, no. 2, p. 147-160. Dostupné na:* [*https://doi.org/10.7153/dea-2023-15-09*](https://doi.org/10.7153/dea-2023-15-09)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA151 | JADLOVSKÁ, Irena\*\* - DŽURINA, Jozef - GRAEF, John R. - GRACE, Said R. Sharp oscillation theorem for fourth-order linear delay differential equations. In Journal of Inequalities and Applications, 2022, vol. 2022, art. no. 122. (2021: 2.021 - IF, Q1 - JCR, 0.596 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1029-242X. Dostupné na: <https://doi.org/10.1186/s13660-022-02859-0> |

Citácie:

*1. [1.1] ALMARRI, B. - MOAAZ, O. - ABOUELREGAL, A.E. - ESSAM, A. New Comparison Theorems to Investigate the Asymptotic Behavior of Even-Order Neutral Differential Equations. In SYMMETRY-BASEL. MAY 22 2023, vol. 15, no. 5. Dostupné na:* [*https://doi.org/10.3390/sym15051126*](https://doi.org/10.3390/sym15051126)*, Registrované v: WOS*

*2. [1.1] ESSAM, A. - MOAAZ, O. - RAMADAN, M. - ALNEMER, G. - HANAFY, I.M. On the Monotonic and Asymptotic Properties of Positive Solutions to Third-Order Neutral Differential Equations and Their Effect on Oscillation Criteria. In AXIOMS. DEC 2023, vol. 12, no. 12. Dostupné na:* [*https://doi.org/10.3390/axioms12121086*](https://doi.org/10.3390/axioms12121086)*, Registrované v: WOS*

*3. [1.1] MASOOD, F. - MOAAZ, O. - ALNEMER, G. - EL-METWALLY, H. More Effective Criteria for Testing the Asymptotic and Oscillatory Behavior of Solutions of a Class of Third-Order Functional Differential Equations. In AXIOMS. DEC 2023, vol. 12, no. 12. Dostupné na:* [*https://doi.org/10.3390/axioms12121112*](https://doi.org/10.3390/axioms12121112)*, Registrované v: WOS*

*4. [1.1] MASOOD, F. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A. New Conditions for Testing the Asymptotic Behavior of Solutions of Odd-Order Neutral Differential Equations with Multiple Delays. In AXIOMS. JUL 2023, vol. 12, no. 7. Dostupné na:* [*https://doi.org/10.3390/axioms12070658*](https://doi.org/10.3390/axioms12070658)*, Registrované v: WOS*

*5. [1.1] MOAAZ, O. - CESARANO, C. - ALMARRI, B. An Improved Relationship between the Solution and Its Corresponding Function in Fourth-Order Neutral Differential Equations and Its Applications. In MATHEMATICS. APR 2023, vol. 11, no. 7. Dostupné na:* [*https://doi.org/10.3390/math11071708*](https://doi.org/10.3390/math11071708)*, Registrované v: WOS*

*6. [1.1] MUHSIN, W. - MOAAZ, O. - ASKAR, S.S. - ALSHAMRANI, A.M. - ELABBASY, E.M. Delay Differential Equations with Several Sublinear Neutral Terms: Investigation of Oscillatory Behavior. In SYMMETRY-BASEL. DEC 2023, vol. 15, no. 12. Dostupné na:* [*https://doi.org/10.3390/sym15122105*](https://doi.org/10.3390/sym15122105)*, Registrované v: WOS*

*7. [1.1] PRABAHARAN, N. - THANDAPANI, E. - TUNC, E. Oscillation results for nonlinear weakly canonical fourth-order delay differential equations via canonical transform. In QUAESTIONES MATHEMATICAE. ISSN 1607-3606, 2023 NOV 30 2023. Dostupné na:* [*https://doi.org/10.2989/16073606.2023.2281567*](https://doi.org/10.2989/16073606.2023.2281567)*, Registrované v: WOS*

*8. [1.1] PURUSHOTHAMAN, G. - SURESH, K. - TUNC, E. - THANDAPANI, E. OSCILLATION CRITERIA OF FOURTH-ORDER NONLINEAR SEMI-NONCANONICAL NEUTRAL DIFFERENTIAL EQUATIONS VIA A CANONICAL TRANSFORM. In ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS. ISSN 1072-6691, OCT 16 2023, vol. 2023, no. 70. Dostupné na:* [*https://doi.org/10.58997/ejde.2023.70*](https://doi.org/10.58997/ejde.2023.70)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA152 | JAKUBEC, Stanislav. On some new estimates for h(-)(Q(zeta(p))). In Acta Arithmetica, 2009, vol. 137, no. 1, s. 43-50. (2008: 0.467 - IF, Q3 - JCR, 0.956 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0065-1036. |

Citácie:

*1. [1.1] WANG, N.L. - CHAKRABORTY, K. - KANEMITSU, S. Unification of Chowla';s Problem and Maillet- Demyanenko Determinants. In MATHEMATICS. FEB 2023, vol. 11, no. 3. Dostupné na:* [*https://doi.org/10.3390/math11030655*](https://doi.org/10.3390/math11030655)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA153 | JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. How sharp are PV measures? In Reports on Mathematical Physics, 2007, vol. 59, no. 2, p. 257-266. ISSN 0034-4877. |

Citácie:

*1. [1.1] BENEDUCI, R. Fuzzy Observables: from Weak Markov Kernels to Markov Kernels. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, OCT 16 2023, vol. 62, no. 10. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05475-w*](https://doi.org/10.1007/s10773-023-05475-w)*, Registrované v: WOS*

*2. [1.1] PIETRZYCKI, P. - STOCHEL, J. Two-moment characterization of spectral measures on the real line. In CANADIAN JOURNAL OF MATHEMATICS-JOURNAL CANADIEN DE MATHEMATIQUES. ISSN 0008-414X, AUG 2023, vol. 75, no. 4, p. 1369-1392. Dostupné na:* [*https://doi.org/10.4153/S0008414X22000426*](https://doi.org/10.4153/s0008414x22000426)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA154 | JENČOVÁ, Anna - PETZ, D. Sufficiency in quantum statistical inference. In Communications in Mathematical Physics, 2006, vol. 263, p. 259-276. (2005: 2.007 - IF, Q1 - JCR, 1.563 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0010-3616. |

Citácie:

*1. [1.1] BAHIRU, E. - VARDIAN, N. Explicit reconstruction of the entanglement wedge via the Petz map. In JOURNAL OF HIGH ENERGY PHYSICS. ISSN 1029-8479, JUL 4 2023, no. 7, art. nr. 25. Dostupné na:* [*https://doi.org/10.1007/JHEP07(2023)025*](https://doi.org/10.1007/jhep07(2023)025)*, Registrované v: WOS*

*2. [1.1] HIAI, F. Equality cases in monotonicity of quasi-entropies, Lieb';s concavity and Ando';s convexity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, OCT 1 2023, vol. 64, no. 10, art. nr. 102201. Dostupné na:* [*https://doi.org/10.1063/5.0154271*](https://doi.org/10.1063/5.0154271)*, Registrované v: WOS*

*3. [1.1] VARDIAN, N. Black hole interior Petz map reconstruction and Papadodimas-Raju proposal. In JOURNAL OF HIGH ENERGY PHYSICS. ISSN 1029-8479, OCT 4 2023, no. 10, art. nr. 24. Dostupné na:* [*https://doi.org/10.1007/JHEP10(2023)024*](https://doi.org/10.1007/jhep10(2023)024)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA155 | JENČOVÁ, Anna - PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Sharp and fuzzy observables on effect algebras. In International Journal of Theoretical Physics, 2008, vol. 47, p. 125-148. (2007: 0.489 - IF, Q4 - JCR, 0.270 - SJR, Q3 - SJR). (2008 - SCOPUS). ISSN 0020-7748. |

Citácie:

*1. [1.1] BENEDUCI, R. Fuzzy Observables: from Weak Markov Kernels to Markov Kernels. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, OCT 16 2023, vol. 62, no. 10. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05475-w*](https://doi.org/10.1007/s10773-023-05475-w)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA156 | JENČOVÁ, Anna. Flat connections and Wigner-Yanase-Dyson metrics. In Reports on Mathematical Physics, 2003, vol. 52, s. 331-351. ISSN 0034-4877. |

Citácie:

*1. [1.1] CIAGLIA, F. M. - DI COSMO, F. - GONZALEZ-BRAVO, L. - IBORT, A. - MARMO, G. The categorical foundations of quantum information theory: Categories and the Cramer-Rao inequality. In MODERN PHYSICS LETTERS A, 2023, vol. 38, no. 16-17, art. nr. 2350085. ISSN 0217-7323. Dostupné na:* [*https://doi.org/10.1142/S0217732323500852*](https://doi.org/10.1142/s0217732323500852)*, Registrované v: WOS*

*2. [1.2] CIAGLIA, F. M. - COSMO, F. Di - IBORT, A. - MARMO, G. G-dual Teleparallel Connections in Information Geometry. In Information Geometry, 2023-12-01, 7, pp. 587-608. ISSN 25112481. Dostupné na:* [*https://doi.org/10.1007/s41884-023-00117-w*](https://doi.org/10.1007/s41884-023-00117-w)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA157 | JENČOVÁ, Anna. A general theory of comparison of quantum channels (and beyond). In IEEE Information Theory Group, 2021, vol. 67, no. 6, p. 3945-3964. (2020: 2.501 - IF, Q2 - JCR, 1.218 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0018-9448. Dostupné na: [https://doi.org/10.1109/TIT.2021.3070120](https://doi.org/10.1109/tit.2021.3070120) |

Citácie:

*1. [1.1] BUSCEMI, F. - KOBAYASHI, K. - MINAGAWA, S. - PERINOTTI, P. - TOSINI, A. Unifying different notions of quantum incompatibility into a strict hierarchy of resource theories of communication. In QUANTUM. ISSN 2521-327X, JUN 7 2023, vol. 7, art. nr. 1035., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA158 | JENČOVÁ, Anna. Renyi Relative Entropies and Noncommutative Lp-Spaces II. In Annales Henri Poincare, 2021, vol. 22, p. 3235-3254. (2020: 1.550 - IF, Q2 - JCR, 1.119 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1424-0637. Dostupné na: <https://doi.org/10.1007/s00023-021-01074-9> |

Citácie:

*1. [1.1] HIAI, F. Equality cases in monotonicity of quasi-entropies, Lieb';s concavity and Ando';s convexity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, OCT 1 2023, vol. 64, no. 10, art. nr. 102201. Dostupné na:* [*https://doi.org/10.1063/5.0154271*](https://doi.org/10.1063/5.0154271)*, Registrované v: WOS*

*2. [1.1] HIAI, Fumio - MOSONYI, Milan. Quantum Renyi Divergences and the Strong Converse Exponent of State Discrimination in Operator Algebras. In ANNALES HENRI POINCARE, 2023, vol. 24, no. 5, pp. 1681-1724. ISSN 1424-0637. Dostupné na:* [*https://doi.org/10.1007/s00023-022-01250-5*](https://doi.org/10.1007/s00023-022-01250-5)*, Registrované v: WOS*

*3. [1.1] HOLLANDS, S. Trace- and Improved Data-Processing Inequalities for von Neumann Algebras. In PUBLICATIONS OF THE RESEARCH INSTITUTE FOR MATHEMATICAL SCIENCES. ISSN 0034-5318, 2023, vol. 59, no. 4, p. 687-729. Dostupné na:* [*https://doi.org/10.4171/PRIMS/59-4-1*](https://doi.org/10.4171/prims/59-4-1)*, Registrované v: WOS*

*4. [1.1] MOSONYI, M. - HIAI, F. Test-Measured Renyi Divergences. In IEEE TRANSACTIONS ON INFORMATION THEORY. ISSN 0018-9448, FEB 2023, vol. 69, no. 2, p. 1074-1092. Dostupné na:* [*https://doi.org/10.1109/TIT.2022.3209892*](https://doi.org/10.1109/tit.2022.3209892)*, Registrované v: WOS*

*5. [1.1] MOSONYI, M. The Strong Converse Exponent of Discriminating Infinite-Dimensional Quantum States. In COMMUNICATIONS IN MATHEMATICAL PHYSICS. ISSN 0010-3616, MAY 2023, vol. 400, no. 1, p. 83-132. Dostupné na:* [*https://doi.org/10.1007/s00220-022-04598-1*](https://doi.org/10.1007/s00220-022-04598-1)*, Registrované v: WOS*

*6. [1.1] ROY, P. Proof of the Renyi quantum null energy condition for free fermions. In PHYSICAL REVIEW D. ISSN 2470-0010, AUG 15 2023, vol. 108, no. 4, art. nr. 45010. Dostupné na:* [*https://doi.org/10.1103/PhysRevD.108.045010*](https://doi.org/10.1103/physrevd.108.045010)*, Registrované v: WOS*

*7. [1.1] ZHANG, T. - QI, X.F. α-z-Renyi relative entropy related quantities and their preservers. In BANACH JOURNAL OF MATHEMATICAL ANALYSIS. ISSN 2662-2033, APR 2023, vol. 17, no. 2, art. nr. 22. Dostupné na:* [*https://doi.org/10.1007/s43037-023-00248-3*](https://doi.org/10.1007/s43037-023-00248-3)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA159 | JENČOVÁ, Anna - JENČA, G. On monoids in the category of sets and relations. In International Journal of Theoretical Physics, 2017, vol. 56, no. 12, p. 3757-3769. (2016: 0.964 - IF, Q3 - JCR, 0.297 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-017-3304-z> |

Citácie:

*1. [1.1] LINZI, Alessandro. A Result of Krasner in Categorial Form. In MATHEMATICS, 2023, vol. 11, no. 24. Dostupné na:* [*https://doi.org/10.3390/math11244923*](https://doi.org/10.3390/math11244923)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA160 | JENČOVÁ, Anna. Rényi relative entropies and noncommutative Lp-spaces. In Annales Henri Poincare, 2018, vol. 19, no. 8, p. 2513-2542. (2017: 1.740 - IF, Q2 - JCR, 1.097 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1424-0637. Dostupné na: <https://doi.org/10.1007/s00023-018-0683-5> |

Citácie:

*1. [1.1] HIAI, F. Equality cases in monotonicity of quasi-entropies, Lieb';s concavity and Ando';s convexity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, OCT 1 2023, vol. 64, no. 10, art. nr. 102201. Dostupné na:* [*https://doi.org/10.1063/5.0154271*](https://doi.org/10.1063/5.0154271)*, Registrované v: WOS*

*2. [1.1] HIAI, Fumio - MOSONYI, Milan. Quantum Renyi Divergences and the Strong Converse Exponent of State Discrimination in Operator Algebras. In ANNALES HENRI POINCARE, 2023, vol. 24, no. 5, pp. 1681-1724. ISSN 1424-0637. Dostupné na:* [*https://doi.org/10.1007/s00023-022-01250-5*](https://doi.org/10.1007/s00023-022-01250-5)*, Registrované v: WOS*

*3. [1.1] HOLLANDS, S. Trace- and Improved Data-Processing Inequalities for von Neumann Algebras. In PUBLICATIONS OF THE RESEARCH INSTITUTE FOR MATHEMATICAL SCIENCES. ISSN 0034-5318, 2023, vol. 59, no. 4, p. 687-729. Dostupné na:* [*https://doi.org/10.4171/PRIMS/59-4-1*](https://doi.org/10.4171/prims/59-4-1)*, Registrované v: WOS*

*4. [1.1] MOSONYI, M. - HIAI, F. Test-Measured Renyi Divergences. In IEEE TRANSACTIONS ON INFORMATION THEORY. ISSN 0018-9448, FEB 2023, vol. 69, no. 2, p. 1074-1092. Dostupné na:* [*https://doi.org/10.1109/TIT.2022.3209892*](https://doi.org/10.1109/tit.2022.3209892)*, Registrované v: WOS*

*5. [1.1] MOSONYI, M. The Strong Converse Exponent of Discriminating Infinite-Dimensional Quantum States. In COMMUNICATIONS IN MATHEMATICAL PHYSICS. ISSN 0010-3616, MAY 2023, vol. 400, no. 1, p. 83-132. Dostupné na:* [*https://doi.org/10.1007/s00220-022-04598-1*](https://doi.org/10.1007/s00220-022-04598-1)*, Registrované v: WOS*

*6. [1.1] ROY, P. Proof of the Renyi quantum null energy condition for free fermions. In PHYSICAL REVIEW D. ISSN 2470-0010, AUG 15 2023, vol. 108, no. 4, art. nr. 45010. Dostupné na:* [*https://doi.org/10.1103/PhysRevD.108.045010*](https://doi.org/10.1103/physrevd.108.045010)*, Registrované v: WOS*

*7. [1.1] ZHANG, T. - QI, X.F. α-z-Renyi relative entropy related quantities and their preservers. In BANACH JOURNAL OF MATHEMATICAL ANALYSIS. ISSN 2662-2033, APR 2023, vol. 17, no. 2, art. nr. 22. Dostupné na:* [*https://doi.org/10.1007/s43037-023-00248-3*](https://doi.org/10.1007/s43037-023-00248-3)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA161 | JENČOVÁ, Anna. Incompatible measurements in a class of general probabilistic theories. In Physical Review A, 2018, vol. 98, no. 1, art. no. 012133. (2017: 2.909 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC).  (2018 - Current Contents). ISSN 1050-2947. Dostupné na: [https://doi.org/10.1103/PhysRevA.98.012133](https://doi.org/10.1103/physreva.98.012133) |

Citácie:

*1. [1.1] BLUHM, A. - NECHITA, I. - SCHMIDT, S. Polytope compatibility-From quantum measurements to magic squares. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, DEC 1 2023, vol. 64, no. 12. Dostupné na:* [*https://doi.org/10.1063/5.0165424*](https://doi.org/10.1063/5.0165424)*, Registrované v: WOS*

*2. [1.1] PLAVALA, Martin. General probabilistic theories: An introduction. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, 2023, vol. 1033, no., pp. 1-64. ISSN 0370-1573. Dostupné na:* [*https://doi.org/10.1016/j.physrep.2023.09.001*](https://doi.org/10.1016/j.physrep.2023.09.001)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA162 | JENČOVÁ, Anna - PLÁVALA, Martin. Conditions for optimal input states for discrimination of quantum channels. In Journal of Mathematical Physics, 2016, vol. 57, no. 12, art. no. 122203, p. [1-20]. (2015: 1.234 - IF, Q2 - JCR, 0.792 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.4972286> |

Citácie:

*1. [1.1] FAWZI, O. - FLAMMARION, N. - GARIVIER, A. - OUFKIR, A. Quantum Channel Certification with Incoherent Strategies. In THIRTY SIXTH ANNUAL CONFERENCE ON LEARNING THEORY, VOL 195. ISSN 2640-3498, 2023, vol. 195., Registrované v: WOS*

*2. [1.1] MACIEJEWSKI, F.B. - PUCHALA, Z. - OSZMANIEC, M. Exploring Quantum Average-Case Distances: Proofs, Properties, and Examples. In IEEE TRANSACTIONS ON INFORMATION THEORY. ISSN 0018-9448, JUL 2023, vol. 69, no. 7, p. 4600-4619. Dostupné na:* [*https://doi.org/10.1109/TIT.2023.3250100*](https://doi.org/10.1109/tit.2023.3250100)*, Registrované v: WOS*

*3. [1.2] OUFKIR, Aadil. Sample-Optimal Quantum Process Tomography with non-adaptive Incoherent Measurements. In IEEE International Symposium on Information Theory Proceedings, 2023-01-01, 2023-June, pp. 1919-1924. ISSN 21578095. Dostupné na:* [*https://doi.org/10.1109/ISIT54713.2023.10206538*](https://doi.org/10.1109/isit54713.2023.10206538)*, Registrované v: SCOPUS*

*4. [1.2] OUFKIR, Aadil. Sample-Optimal Quantum Process Tomography with non-adaptive Incoherent Measurements. In IEEE International Symposium on Information Theory Proceedings, 2023-01-01, 2023-June, pp. 1919-1924. ISSN 21578095. Dostupné na:* [*https://doi.org/10.1109/ISIT54713.2023.10206538*](https://doi.org/10.1109/isit54713.2023.10206538)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA163 | JENČOVÁ, Anna - PLÁVALA, Martin. Conditions on the existence of maximally incompatible two-outcome measurements in general probabilistic theory. In Physical Review A, 2017, vol. 96, no. 2, art. no. 022113, p. [ 1-7]. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947. Dostupné na: [https://doi.org/10.1103/PhysRevA.96.022113](https://doi.org/10.1103/physreva.96.022113) |

Citácie:

*1. [1.1] MIYADERA, T. - TAKAKURA, R. Programming of channels in generalized probabilistic theories. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, APR 1 2023, vol. 64, no. 4. Dostupné na:* [*https://doi.org/10.1063/5.0101198*](https://doi.org/10.1063/5.0101198)*, Registrované v: WOS*

*2. [1.1] SELBY, J.H. - SAINZ, A.B. - MAGRON, V. - CZEKAJ, L. - HORODECKI, M. Correlations constrained by composite measurements. In QUANTUM. ISSN 2521-327X, AUG 10 2023, vol. 7., Registrované v: WOS*

*3. [1.1] SELBY, J.H. - SCHMID, D. - WOLFE, E. - SAINZ, A.B. - KUNJWAL, R. - SPEKKENS, R.W. Accessible fragments of generalized probabilistic theories, cone equivalence, and applications to witnessing nonclassicality. In PHYSICAL REVIEW A. ISSN 2469-9926, JUN 6 2023, vol. 107, no. 6. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.062203*](https://doi.org/10.1103/physreva.107.062203)*, Registrované v: WOS*

*4. [1.1] WINCZEWSKI, M. - DAS, T. - SELBY, J.H. - HORODECKI, K. - HORODECKI, P. - PANKOWSKI, L. - PIANI, M. - RAMANATHAN, R. Complete extension: the non-signalling analog of quantum purification. In QUANTUM. ISSN 2521-327X, NOV 3 2023, vol. 7., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA164 | JENČOVÁ, Anna. Preservation of a quantum Rényi relative entropy implies existence of a recovery map. In Journal of Physics A: Mathematical and Theoretical, 2017, vol. 50, no. 8, art. no. 085303. (2016: 1.865 - IF, Q1 - JCR, 0.935 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/aa5661> |

Citácie:

*1. [1.1] GIORGETTI, L. - PARZYGNAT, A.J. - RANALLO, A. - RUSSO, B.P. Bayesian inversion and the Tomita-Takesaki modular group. In QUARTERLY JOURNAL OF MATHEMATICS. ISSN 0033-5606, SEP 14 2023, vol. 74, no. 3, p. 975-1014. Dostupné na:* [*https://doi.org/10.1093/qmath/haad014*](https://doi.org/10.1093/qmath/haad014)*, Registrované v: WOS*

*2. [1.1] HIAI, F. Equality cases in monotonicity of quasi-entropies, Lieb';s concavity and Ando';s convexity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, OCT 1 2023, vol. 64, no. 10, art. nr. 102201. Dostupné na:* [*https://doi.org/10.1063/5.0154271*](https://doi.org/10.1063/5.0154271)*, Registrované v: WOS*

*3. [1.1] HOLLANDS, S. Trace- and Improved Data-Processing Inequalities for von Neumann Algebras. In PUBLICATIONS OF THE RESEARCH INSTITUTE FOR MATHEMATICAL SCIENCES. ISSN 0034-5318, 2023, vol. 59, no. 4, p. 687-729. Dostupné na:* [*https://doi.org/10.4171/PRIMS/59-4-1*](https://doi.org/10.4171/prims/59-4-1)*, Registrované v: WOS*

*4. [1.1] PARZYGNAT, A.J. - BUSCEMI, F. Axioms for retrodiction: achieving time-reversal symmetry with a prior. In QUANTUM. ISSN 2521-327X, MAY 23 2023, vol. 7. art. nr. 1013., Registrované v: WOS*

*5. [1.1] PARZYGNAT, A.J. - FULLWOOD, J. From Time-Reversal Symmetry to Quantum Bayes'; Rules. In PRX QUANTUM. JUN 2 2023, vol. 4, no. 2, art. nr. 20334. Dostupné na:* [*https://doi.org/10.1103/PRXQuantum.4.020334*](https://doi.org/10.1103/prxquantum.4.020334)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA165 | JENČOVÁ, Anna. Base norms and discrimination of generalized quantum channels. In Journal of Mathematical Physics, 2014, vol. 55, no. 2, p. 1-17. (2013: 1.176 - IF, Q3 - JCR, 0.783 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.4863715> |

Citácie:

*1. [1.1] LEWANDOWSKA, P. - PAWELA, L. - PUCHALA, Z. Strategies for single-shot discrimination of process matrices. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 21 2023, vol. 13, no. 1, art. nr. 3046. Dostupné na:* [*https://doi.org/10.1038/s41598-023-30191-0*](https://doi.org/10.1038/s41598-023-30191-0)*, Registrované v: WOS*

*2. [1.1] PLÁVALA, M. General probabilistic theories: An introduction. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, SEP 7 2023, vol. 1033, p. 1-64. Dostupné na:* [*https://doi.org/10.1016/j.physrep.2023.09.001*](https://doi.org/10.1016/j.physrep.2023.09.001)*, Registrované v: WOS*

*3. [1.1] WANG, K. - WANG, D.S. Quantum circuit simulation of superchannels. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, APR 1 2023, vol. 25, no. 4, art. nr. 43013. Dostupné na:* [*https://doi.org/10.1088/1367-2630/acc5aa*](https://doi.org/10.1088/1367-2630/acc5aa)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA166 | JENČOVÁ, Anna. Generalized channels: Channels for convex subsets of the state space. In Journal of Mathematical Physics, 2012, vol. 53, art. no. 012201. (2011: 1.291 - IF, Q2 - JCR, 0.788 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.3676294> |

Citácie:

*1. [1.1] AMATO, D. - FACCHI, P. - KONDERAK, A. Asymptotics of quantum channels. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, JUN 30 2023, vol. 56, no. 26, art. nr. 265304. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acd828*](https://doi.org/10.1088/1751-8121/acd828)*, Registrované v: WOS*

*2. [1.1] LEWANDOWSKA, P. - PAWELA, L. - PUCHALA, Z. Strategies for single-shot discrimination of process matrices. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 21 2023, vol. 13, no. 1, art. nr. 3046. Dostupné na:* [*https://doi.org/10.1038/s41598-023-30191-0*](https://doi.org/10.1038/s41598-023-30191-0)*, Registrované v: WOS*

*3. [1.1] WANG, K. - WANG, D.S. Quantum circuit simulation of superchannels. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, APR 1 2023, vol. 25, no. 4, art. nr. 43013. Dostupné na:* [*https://doi.org/10.1088/1367-2630/acc5aa*](https://doi.org/10.1088/1367-2630/acc5aa)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA167 | JENČOVÁ, Anna. Extremality conditions for generalized channels. In Journal of Mathematical Physics, 2012, vol. 53, art. no. 122203. (2011: 1.291 - IF, Q2 - JCR, 0.788 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.4764885> |

Citácie:

*1. [1.1] LEWANDOWSKA, P. - PAWELA, L. - PUCHALA, Z. Strategies for single-shot discrimination of process matrices. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 21 2023, vol. 13, no. 1, art. nr. 3046. Dostupné na:* [*https://doi.org/10.1038/s41598-023-30191-0*](https://doi.org/10.1038/s41598-023-30191-0)*, Registrované v: WOS*

*2. [1.1] WANG, K. - WANG, D.S. Quantum circuit simulation of superchannels. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, APR 1 2023, vol. 25, no. 4, art. nr. 43013. Dostupné na:* [*https://doi.org/10.1088/1367-2630/acc5aa*](https://doi.org/10.1088/1367-2630/acc5aa)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA168 | JENČOVÁ, Anna. Geometry of quantum states: Dual connections and divergence functions. In Reports on Mathematical Physics, 2001, s. 121-138. ISSN 0034-4877. Dostupné na: [https://doi.org/10.1016/S0034-4877(01)90008-4](https://doi.org/10.1016/s0034-4877(01)90008-4) |

Citácie:

*1. [1.1] CIAGLIA, F.M. - DI COSMO, F. - GONZáLEZ-BRAVO, L. - IBORT, A. - MARMO, G. The categorical foundations of quantum information theory: Categories and the Cramer-Rao inequality. In MODERN PHYSICS LETTERS A. ISSN 0217-7323, JUN 7 2023, vol. 38, no. 16-17. Dostupné na:* [*https://doi.org/10.1142/S0217732323500852*](https://doi.org/10.1142/s0217732323500852)*, Registrované v: WOS*

*2. [1.2] CIAGLIA, F. M. - COSMO, F. Di - IBORT, A. - MARMO, G. G-dual Teleparallel Connections in Information Geometry. In Information Geometry, 2023-12-01, 7, pp. 587-608. ISSN 25112481. Dostupné na:* [*https://doi.org/10.1007/s41884-023-00117-w*](https://doi.org/10.1007/s41884-023-00117-w)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA169 | JENČOVÁ, Anna. Geodesic distances on density matrices. In Journal of Mathematical Physics, 2004, vol. 45, s. 1787-1794. ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.1689000> |

Citácie:

*1. [1.1] ROLANDI, Alberto - ABIUSO, Paolo - PERARNAU-LLOBET, Marti. Collective Advantages in Finite-Time Thermodynamics. In PHYSICAL REVIEW LETTERS, 2023, vol. 131, no. 21, art. nr. 210401. ISSN 0031-9007. Dostupné na:* [*https://doi.org/10.1103/PhysRevLett.131.210401*](https://doi.org/10.1103/physrevlett.131.210401)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA170 | JENČOVÁ, Anna - RUSKAI, M.B. A unified treatment of convexity of relative entropy and related trace functions, with conditions for equality. In Reviews in Mathematical Physics, 2010, vol. 22, no. 9, p. 1099-1121. (2009: 1.190 - IF, Q3 - JCR, 0.998 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0129-055X. Dostupné na: [https://doi.org/10.1142/S0129055X10004144](https://doi.org/10.1142/s0129055x10004144) |

Citácie:

*1. [1.1] HIAI, F. Equality cases in monotonicity of quasi-entropies, Lieb';s concavity and Ando';s convexity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, OCT 1 2023, vol. 64, no. 10, art. nr. 102201. Dostupné na:* [*https://doi.org/10.1063/5.0154271*](https://doi.org/10.1063/5.0154271)*, Registrované v: WOS*

*2. [1.1] LAMI, L. - SHIROKOV, M.E. Attainability and Lower Semi-continuity of the Relative Entropy of Entanglement and Variations on the Theme. In ANNALES HENRI POINCARE. ISSN 1424-0637, DEC 2023, vol. 24, no. 12, p. 4069-4137. Dostupné na:* [*https://doi.org/10.1007/s00023-023-01313-1*](https://doi.org/10.1007/s00023-023-01313-1)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA171 | JENČOVÁ, Anna. A construction of a nonparametric quantum information manifold. In Journal of Functional Analysis, 2006, vol. 239, s. 1-20. (2005: 0.806 - IF, Q1 - JCR, 2.210 - SJR, Q1 - SJR). ISSN 0022-1236. Dostupné na: <https://doi.org/10.1016/j.jfa.2006.02.007> |

Citácie:

*1. [1.1] CIAGLIA, F.M. - JOST, J. - SCHWACHHÖFER, L.J. Information Geometry, Jordan Algebras, and a Coadjoint Orbit-Like Construction. In SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS. ISSN 1815-0659, 2023, vol. 19, art. nr. 78. Dostupné na:* [*https://doi.org/10.3842/SIGMA.2023.078*](https://doi.org/10.3842/sigma.2023.078)*, Registrované v: WOS*

*2. [1.1] NAUDTS, J. Exponential arcs in manifolds of quantum states. In FRONTIERS IN PHYSICS. ISSN 2296-424X, FEB 7 2023, vol. 11, art. nr. 1042257. Dostupné na:* [*https://doi.org/10.3389/fphy.2023.1042257*](https://doi.org/10.3389/fphy.2023.1042257)*, Registrované v: WOS*

*3. [1.2] CIAGLIA, F. M. - DI NOCERA, F. - JOST, J. - SCHWACHHÖFER, L. Parametric models and information geometry on W\*-algebras. In Information Geometry, 2023-12-01, 7, pp. 329-354. ISSN 25112481. Dostupné na:* [*https://doi.org/10.1007/s41884-022-00094-6*](https://doi.org/10.1007/s41884-022-00094-6)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA172 | JIRÁSEK, J. - JIRÁSKOVÁ, Galina - SZABARI, A. State complexity of concatenation and complementation. In International Journal of Foundations of Computer Science, 2005, vol. 16, no. 3, p. 511-529. ISSN 0129-0541. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 972, art. nr. 114075. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

*2. [1.2] CARON, Pascal - LUQUE, Jean Gabriel - PATROU, Bruno. Operational State Complexity Revisited: The Contribution of Monsters and Modifiers. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918 LNCS, pp. 1-20. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_1*](https://doi.org/10.1007/978-3-031-34326-1_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA173 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - ŠEBEJ, Juraj. Operations on unambiguous finite automata. In International Journal of Foundations of Computer Science, 2018, vol. 29, no. 5, p. 861-876. (2017: 0.353 - IF, Q4 - JCR, 0.355 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0129-0541. Dostupné na: [https://doi.org/10.1142/S012905411842008X](https://doi.org/10.1142/s012905411842008x) |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN*

*ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

*2. [1.1] PETROV, S. - OKHOTIN, A. On the transformation of two-way finite automata to unambiguous finite automata. In INFORMATION AND COMPUTATION. ISSN 0890-5401, DEC 2023, vol. 295, A. Dostupné na:* [*https://doi.org/10.1016/j.ic.2022.104956*](https://doi.org/10.1016/j.ic.2022.104956)*, Registrované v: WOS*

*3. [1.2] CZERWISKI, Wojciech - DBSKI, Maciej - GOGASZ, Tomasz - HOI, Gordon - JAIN, Sanjay - SKRZYPCZAK, Micha - STEPHAN, Frank - TAN, Christopher. Languages Given by Finite Automata over the Unary Alphabet. In Leibniz International Proceedings in Informatics, LIPIcs, 2023-12-01, 284. ISSN 18688969. Dostupné na:* [*https://doi.org/10.4230/LIPIcs.FSTTCS.2023.22*](https://doi.org/10.4230/lipics.fsttcs.2023.22)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA174 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - KRAUSOVÁ, Monika - MLYNÁRČIK, Peter - ŠEBEJ, Juraj. Prefix-free languages: Left and right quotient and reversal. In Theoretical Computer Science, 2016, vol. 610, p. 78-90. (2015: 0.643 - IF, Q3 - JCR, 0.592 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2015.08.031> |

Citácie:

*1. [1.1] HOSPODáR, M. - OLEJáR, V. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, SEP 13 2023, vol. 972. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA175 | JIRÁSKOVÁ, Galina. State complexity of some operations on binary regular languages. In Theoretical Computer Science, 2005, vol. 330, no. 2, p. 287-298. ISSN 0304-3975. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 972, art. nr. 114075. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

*2. [1.2] CARON, Pascal - LUQUE, Jean Gabriel - PATROU, Bruno. Operational State Complexity Revisited: The Contribution of Monsters and Modifiers. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918 LNCS, pp. 1-20. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_1*](https://doi.org/10.1007/978-3-031-34326-1_1)*, Registrované v: SCOPUS*

*3. [1.2] OKHOTIN, Alexander - SAZHNEVA, Elizaveta. STATE COMPLEXITY OF GF(2)-INVERSE AND GF(2)-STAR ON BINARY LANGUAGES. In Journal of Automata, Languages and Combinatorics, 2023-01-01, 28, 1-3, pp. 121-141. ISSN 1430189X. Dostupné na:* [*https://doi.org/10.25596/jalc-2023-121*](https://doi.org/10.25596/jalc-2023-121)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA176 | JIRÁSKOVÁ, Galina - OKHOTIN, A. State complexity of cyclic shift. In RAIRO Theoretical Informatics and Applications, 2008, vol. 42, no. 2, p. 335-360. ISSN 0988-3754. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 972, art. nr. 114075. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA177 | JIRÁSKOVÁ, Galina\*\* - KLÍMA, Ondřej. On linear languages recognized by deterministic biautomata. In Information and Computation, 2022, vol. 286, art. nr. 104778. (2021: 1.240 - IF, Q3 - JCR, 0.543 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0890-5401. Dostupné na: <https://doi.org/10.1016/j.ic.2021.104778> |

Citácie:

*1. [1.1] MARTíN-VIDE, C. - TRUTHE, B. Special issue: Selected papers of the 13th International Conference on Language and Automata Theory and Applications, LATA 2019 Preface. In INFORMATION AND COMPUTATION. ISSN 0890-5401, JUL 2022, vol. 286, SI. Dostupné na:* [*https://doi.org/10.1016/j.ic.2021.104775*](https://doi.org/10.1016/j.ic.2021.104775)*, Registrované v: WOS*

*2. [1.1] OLKHOVSKY, I. - OKHOTIN, A. On the Transformation of LL(k)-linear to LL(1)-linear Grammars. In THEORY OF COMPUTING SYSTEMS. ISSN 1432-4350, 2022 DEC 1 2022. Dostupné na:* [*https://doi.org/10.1007/s00224-022-10108-6*](https://doi.org/10.1007/s00224-022-10108-6)*, Registrované v: WOS*

*3. [1.2] OLKHOVSKY, Ilya - OKHOTIN, Alexander. On the Transformation of LL(k)-linear to LL(1)-linear Grammars. In Theory of Computing Systems, 2023-04-01, 67, 2, pp. 234-262. ISSN 14324350. Dostupné na:* [*https://doi.org/10.1007/s00224-022-10108-6*](https://doi.org/10.1007/s00224-022-10108-6)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA178 | JIRÁSKOVÁ, Galina. Magic numbers and ternary alphabet. In International Journal of Fundations of Computer Science, 2011, vol. 22, no. 2, p. 331-344. (2010: 0.459 - IF, Q4 - JCR, 0.363 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0129-0541. Dostupné na: [https://doi.org/10.1142/S0129054111008076](https://doi.org/10.1142/s0129054111008076) |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

*2. [1.1] HOLZER, M. - RAUCH, C. The Range of State Complexities of Languages Resulting from the Cascade Product - The Unary Case. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, DEC 2023, vol. 34, no. 08, p. 987-1022. Dostupné na:* [*https://doi.org/10.1142/S0129054123430049*](https://doi.org/10.1142/s0129054123430049)*, Registrované v: WOS*

*3. [1.2] KRECZMAN, Savinien - PRIGIONIERO, Luca - ROWLAND, Eric - STIPULANTI, Manon. Magic Numbers in Periodic Sequences. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 206-219. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_16*](https://doi.org/10.1007/978-3-031-33180-0_16)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA179 | JIRÁSKOVÁ, Galina - OKHOTIN, A. On the state complexity of star of union and star of intersection. In Fundamenta Informaticae, 2011, vol. 109, no. 2, p. 161-178. (2010: 0.522 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0169-2968. Dostupné na: [https://doi.org/10.3233/FI-2011-502](https://doi.org/10.3233/fi-2011-502) |

Citácie:

*1. [1.1] CARON, P. - DURAND, A. - PATROU, B. The Exact State Complexity for the Composition of Root and Reversal. In DEVELOPMENTS IN LANGUAGE THEORY, DLT 2023. ISSN 0302-9743, 2023, vol. 13911, p. 74-85. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33264-7\_7*](https://doi.org/10.1007/978-3-031-33264-7_7)*, Registrované v: WOS*

*2. [1.2] CARON, Pascal - LUQUE, Jean Gabriel - PATROU, Bruno. Operational State Complexity Revisited: The Contribution of Monsters and Modifiers. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918   
  
LNCS, pp. 1-20. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_1*](https://doi.org/10.1007/978-3-031-34326-1_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA180 | JIRÁSKOVÁ, Galina - MASOPUST, T. Complexity in union-free regular languages. In International Journal of Fundations of Computer Science, 2011, vol. 22, no. 7, p. 1639-1653. (2010: 0.459 - IF, Q4 - JCR, 0.363 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0129-0541. Dostupné na: [https://doi.org/10.1142/S0129054111008933](https://doi.org/10.1142/s0129054111008933) |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. The cut operation in subclasses of convex languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 969, art. nr. 114050. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114050*](https://doi.org/10.1016/j.tcs.2023.114050)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA181 | JUREČKA, S. - JUREČKOVÁ, Mária - CHOVANEC, Ferdinand - KOBAYASHI, H. - TAKAHASHI, M. - MIKULA, M. - PINČÍK, Emil. On the topographic and optical properties of SiC/SiO2 surfaces. In Central European Journal of Physics, 2009, vol. 7, no. 2, p. 321-326. (2008: 0.448 - IF, Q4 - JCR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1895-1082. Dostupné na: <https://doi.org/10.2478/s11534-009-0021-0> |

Citácie:

*1. [1.2] KUMAR, Sathasivam Pratheep - BALAJI, Daneshwaran - MANDLIMATH, Triveni Rajashekhar. Characterization of flexible ceramics. In Advanced Flexible Ceramics: Design, Properties, Manufacturing, and Emerging Applications, 2023-01-01, pp. 25-43. Dostupné na:* [*https://doi.org/10.1016/B978-0-323-98824-7.00003-8*](https://doi.org/10.1016/b978-0-323-98824-7.00003-8)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA182 | KABÁTH, Petr - SKARKA, Marek - SABOTTA, S. - GUENTHER, E. - JONES, D. - KLOCOVÁ, T. - ŠUBJAK, Ján - ŽÁK, Jiří - ŠPOKOVÁ, M. - BLAŽEK, M. - DVOŘÁKOVÁ, J. - DUPKALA, Daniel - FUCHS, J. - HATZES, A. - KORTUSOVÁ, E. - NOVOTNÝ, R. - PLÁVALOVÁ, Eva - ŘEZBA, L. - SLOUP, J. - ŠKODA, Petr - ŠLECHTA, Miroslav. Ondřejov Echelle spectograph, ground based support facility for exoplanet missions. In Publications of the Astronomical Society of the Pacific, 2020, vol. 132, art.no. 035002, p. 1-12. (2019: 3.985 - IF, Q2 - JCR, 1.536 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0004-6280. Dostupné na: <https://doi.org/10.1088/1538-3873/ab6752> |

Citácie:

*1. [1.1] MARYEVA, O. - NéMETH, P. - KARPOV, S. Revealing the Binarity of HD 36030-One of the Hottest Flare Stars. In GALAXIES. APR 2023, vol. 11, no. 2. Dostupné na:* [*https://doi.org/10.3390/galaxies11020055*](https://doi.org/10.3390/galaxies11020055)*, Registrované v: WOS*

*2. [3.1] Rustamov, B. N. - Mikailov, Kh. M. - Alisheva, K. I. - Mammadova, S. O. - Agayeva, Sh. A. - Maryeva, O. V. Spectral Observations of the Algol - Type Binary Star δ Librae. In Odessa Astronomical Publications, 2023, Vol. vol. 36, p. 82-85,* [*https://doi.org/10.18524/1810-4215.2023.36.290121*](https://doi.org/10.18524/1810-4215.2023.36.290121)

|  |  |
| --- | --- |
| ADCA183 | KAJANOVIČOVÁ, Viktória - NOVOTNÝ, Branislav\*\* - POSPÍŠIL, Michal. Ramsey model with non-constant population growth. In Mathematical Social Sciences, 2020, vol. 104, p. 40-46. (2019: 0.669 - IF, Q4 - JCR, 0.473 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0165-4896. Dostupné na: <https://doi.org/10.1016/j.mathsocsci.2020.01.004> |

Citácie:

*1. [3.1] RASULOV, Jamshid. MODELS OF ECONOMIC GROWTH AND THEIR COMPARATIVE ANALYSIS. In Economics and education. 2023, Vol. 24, no. 3, DOI* [*https://doi.org/10.55439/ECED/vol24\_iss3/a6*](https://doi.org/10.55439/eced/vol24_iss3/a6)

|  |  |
| --- | --- |
| ADCA184 | KARDOŠ, František - PÓCS, Jozef - PÓCSOVÁ, Jana. On concept reduction based on some graph properties. In Knowledge-Based Systems, 2016, vol. 93, p. 67-74. (2015: 3.325 - IF, Q1 - JCR, 1.744 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0950-7051. Dostupné na: <https://doi.org/10.1016/j.knosys.2015.11.003> |

Citácie:

*1. [1.1] ZHANG, S.L. - ZHANG, J.F. - LI, J.E. - GUO, P. - PEDRYCZ, W. A user-guided reduction concept lattice and its algebraic structure. In EXPERT SYSTEMS WITH APPLICATIONS. ISSN 0957-4174, MAY 1 2023, vol. 217, art. nr. 119537. Dostupné na:* [*https://doi.org/10.1016/j.eswa.2023.119537*](https://doi.org/10.1016/j.eswa.2023.119537)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA185 | KOCHOL, Martin. An equivalent version of the 3-flow conjecture. In Journal of Combinatorial Theory, Series B, 2001, vol. 83, p. 258-261. ISSN 0095-8956. |

Citácie:

*1. [1.1] DE JONG, J.V. - RICHTER, R.B. Strong 3-Flow Conjecture for projective planar graphs. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, AUG 2023, vol. 103, no. 4, p. 635-660. Dostupné na:* [*https://doi.org/10.1002/jgt.22939*](https://doi.org/10.1002/jgt.22939)*, Registrované v: WOS*

*2. [1.1] DVORáK, Z. - MOHAR, B. ON DENSITY OF Z3-FLOW-CRITICAL GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 2, p. 699-717. Dostupné na:* [*https://doi.org/10.1137/22M1496529*](https://doi.org/10.1137/22m1496529)*, Registrované v: WOS*

*3. [1.1] ZHANG, J.Y. - TAO, Y. NOWHERE-ZERO $3$ -FLOWS IN TWO FAMILIES OF VERTEX-TRANSITIVE GRAPHS. In BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY. ISSN 0004-9727, JUN 2023, vol. 107, no. 3, p. 353-360. Dostupné na:* [*https://doi.org/10.1017/S0004972722000922*](https://doi.org/10.1017/s0004972722000922)*, Registrované v: WOS*

*4. [1.1] ZHANG, J.Y. - ZHANG, Z. Nowhere-zero 3-flows in Cayley graphs of order pq2. In DISCRETE MATHEMATICS. ISSN 0012-365X, FEB 2023, vol. 346, no. 2. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113226*](https://doi.org/10.1016/j.disc.2022.113226)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA186 | KOCHOL, Martin. Snarks without small cycles. In Journal of Combinatorial Theory, Series B, 1996, vol. 67, p. 34-47. ISSN 0095-8956. |

Citácie:

*1. [1.1] LIU, S.Y. - HAO, R.X. - LUO, R. - ZHANG, C.Q. 5-CYCLE DOUBLE COVERS, 4-FLOWS, AND CATLIN REDUCTION. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 1, p. 253-267. Dostupné na:* [*https://doi.org/10.1137/22M1472425*](https://doi.org/10.1137/22m1472425)*, Registrované v: WOS*

*2. [1.1] PALMA, M.A.D.R. - DANTAS, S. - SASAKI, D. Kochol superposition of Goldberg with Semi-blowup snarks is Type 1. In XII LATIN-AMERICAN ALGORITHMS, GRAPHS AND OPTIMIZATION SYMPOSIUM, LAGOS 2023. ISSN 1877-0509, 2023, vol. 224, p. 250-257. Dostupné na:* [*https://doi.org/10.1016/j.procs.2023.08.235*](https://doi.org/10.1016/j.procs.2023.08.235)*, Registrované v: WOS*

*3. [1.1] PALMA, M.A.D.R. - GONçALVES, I.F.A. - SASAKI, D. - DANTAS, S. On total coloring and equitable total coloring of infinite snark families. In RAIRO-OPERATIONS RESEARCH. ISSN 0399-0559, OCT 16 2023, vol. 57, no. 5, p. 2619-2637. Dostupné na:* [*https://doi.org/10.1051/ro/2023129*](https://doi.org/10.1051/ro/2023129)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA187 | KOCHOL, Martin. A cyclically 6-edge-connected snark of order 118. In Discrete Mathematics, 1996, vol. 161, p. 297-300. ISSN 0012-365X. |

Citácie:

*1. [1.1] LIU, S.Y. - HAO, R.X. - LUO, R. - ZHANG, C.Q. 5-CYCLE DOUBLE COVERS, 4-FLOWS, AND CATLIN REDUCTION. In SIAM JOURNAL ON   
  
DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 1, p. 253-267. Dostupné na:* [*https://doi.org/10.1137/22M1472425*](https://doi.org/10.1137/22m1472425)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA188 | KOCHOL, Martin. Equivalence of Fleischner´s and Thomassen´s conjectures. In Journal of Combinatorial Theory, Series B, 2000, vol. 78, s. 277-279. ISSN 0095-8956. |

Citácie:

*1. [1.1] FANG, Y.B. - XIONG, L.M. On the dominating (induced) cycles of iterated line graphs. In DISCRETE APPLIED MATHEMATICS. ISSN 0166-218X, JAN 30 2023, vol. 325, p. 43-51. Dostupné na:* [*https://doi.org/10.1016/j.dam.2022.09.025*](https://doi.org/10.1016/j.dam.2022.09.025)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA189 | KOCHOL, Martin. Polyhedral embeddings of snarks in orientable surfaces. In Proceedings of the American Mathematical Society, 2009, vol. 137, no. 5, p. 1613-1619. ISSN 0002-9939. |

Citácie:

*1. [1.1] DVORáK, Z. - MOHAR, B. ON DENSITY OF Z3-FLOW-CRITICAL GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 2, p. 699-717. Dostupné na:* [*https://doi.org/10.1137/22M1496529*](https://doi.org/10.1137/22m1496529)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA190 | KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. The statistical uncertainty of the Heydemann correction: A practical limit of optical quadrature homodyne interferometry. In Measurement Science and Technology, 2015, vol. 26, no. 8, p. 084004. (2014: 1.433 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0957-0233. Dostupné na: <https://doi.org/10.1088/0957-0233/26/8/084004> |

Citácie:

*1. [1.1] HORI, Y. Quantitative evaluation and removal of periodic error caused by ghost reflections in a double-path homodyne interferometer. In MEASUREMENT SCIENCE AND TECHNOLOGY. ISSN 0957-0233, FEB 1 2023, vol. 34, no. 2. Dostupné na:* [*https://doi.org/10.1088/1361-6501/ac929e*](https://doi.org/10.1088/1361-6501/ac929e)*, Registrované v: WOS*

*2. [1.1] KRAUHAUSEN, M. - PRIEM, R. - CLASSEN, R. - PRELLINGER, G. - POLLINGER, F. Sub-micron inline thickness measurement of cold-rolled metal strips by multi-wavelength interferometry and laser triangulation. In OPTICS EXPRESS. ISSN 1094-4087, DEC 18 2023, vol. 31, no. 26, p. 43804-43820. Dostupné na:* [*https://doi.org/10.1364/OE.504102*](https://doi.org/10.1364/oe.504102)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA191 | KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Ellipse fitting by nonlinear constraints to demodulate quadrature homodyne interferometer signals and to determine the statistical uncertainty of the interferometric phase. In Measurement Science and Technology, 2014, vol. 25, no. 11, p. 115001. (2013: 1.352 - IF, Q2 - JCR, 0.555 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0957-0233. Dostupné na: <https://doi.org/10.1088/0957-0233/25/11/115001> |

Citácie:

*1. [1.1] LIN, X.L. - SU, X.B. - WANG, J.N. - SUN, Y.K. - HU, P.C. Laser Interferometer Technology and Instruments for Sub-Nanometer and Picometer Displacement Measurements. In LASER & OPTOELECTRONICS PROGRESS. ISSN 1006-4125, FEB 2023, vol. 60, no. 3. Dostupné na:* [*https://doi.org/10.3788/LOP230440*](https://doi.org/10.3788/lop230440)*, Registrované v: WOS*

*2. [1.1] MU, S.Q. - WU, X.Q. - YU, B.L. - GUANG, D. - SHI, J.H. - GUI, L. - ZUO, C. - ZHANG, W.J. - ZHAO, X.N. Improved Phase Noise Cancellation Technology for Auxiliary Reference Interferometer Demodulation Scheme. In JOURNAL OF LIGHTWAVE TECHNOLOGY. ISSN 0733-8724, MAY 1 2023, vol.   
  
41, no. 9, p. 2747-2755. Dostupné na:* [*https://doi.org/10.1109/JLT.2023.3237567*](https://doi.org/10.1109/jlt.2023.3237567)*, Registrované v: WOS*

*3. [1.1] ZHOU, W. - YU, B.L. - ZHANG, J.H. - SHI, J.H. - GUANG, D. - ZUO, C. - MU, S.Q. - FANG, C.X. - ZHANG, D.X. - LIN, J.P. - WU, X.Q. Phase noise suppression technique based on an improved reference interferometer scheme. In OPTICS EXPRESS. ISSN 1094-4087, OCT 9 2023, vol. 31, no. 21, p. 33765-33775. Dostupné na:* [*https://doi.org/10.1364/OE.493033*](https://doi.org/10.1364/oe.493033)*, Registrované v: WOS*

*4. [3.1] NUGRAHENI, A.C. – PUTRI, A.P.S. – KUSUMA, A.I. Eksperimen Fisika Sederhana yang dapat Membelajarkan Konsep Interferensi Cahaya. In JURNAL SAINS DAN PEMBELAJARAN MATEMATIKA. ISSN 2987-0267, 2023, vol. 1, no. 1, p. 25-29. Dostupné na:* [*http://dx.doi.org/10.51806/jspm.v1i1.53*](http://dx.doi.org/10.51806/jspm.v1i1.53)

|  |  |
| --- | --- |
| ADCA192 | KOREC, Ivan. Small universal register machines. In Theoretical Computer Science, 1996, vol. 168, no. 2, p. 267-301. ISSN 0304-3975. |

Citácie:

*1. [1.1] DUDENHEFNER, A. CONSTRUCTIVE MANY-ONE REDUCTION FROM THE HALTING PROBLEM TO SEMI-UNIFICATION (EXTENDED VERSION). In LOGICAL METHODS IN COMPUTER SCIENCE. ISSN 1860-5974, 2023, vol. 19, no. 4. Dostupné na:* [*https://doi.org/10.48550/arXiv.2208.13428*](https://doi.org/10.48550/arxiv.2208.13428)*, Registrované v: WOS*

*2. [1.1] GARCIA, L. - SANCHEZ, G. - AVALOS, J.G. - VAZQUEZ, E. Spiking neural P systems with myelin and dendritic spines. In NEUROCOMPUTING. ISSN 0925-2312, OCT 1 2023, vol. 552. Dostupné na:* [*https://doi.org/10.1016/j.neucom.2023.126522*](https://doi.org/10.1016/j.neucom.2023.126522)*, Registrované v: WOS*

*3. [1.1] JIANG, S.X. - SHEN, Z.C. - XU, B.W. - ZHU, X.L. - LIANG, T. Spiking neural P systems with polarizations and astrocytes. In JOURNAL OF MEMBRANE COMPUTING. ISSN 2523-8906, MAR 2023, vol. 5, no. 1, p. 55-68. Dostupné na:* [*https://doi.org/10.1007/s41965-023-00119-8*](https://doi.org/10.1007/s41965-023-00119-8)*, Registrované v: WOS*

*4. [1.1] JIANG, S.X. - XU, B.W. - LIANG, T. - ZHU, X.L. - WU, T.F. Numerical spiking neural P systems with production functions on synapses. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, JAN 9 2023, vol. 940, B, p. 80-89. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2022.09.021*](https://doi.org/10.1016/j.tcs.2022.09.021)*, Registrované v: WOS*

*5. [1.1] JIN, Y. - ZHANG, L.P. Asynchronous Spiking Neural P Systems With Rules Working in the Rule Synchronization Mode. In IEEE TRANSACTIONS ON NANOBIOSCIENCE. ISSN 1536-1241, JAN 2023, vol. 22, no. 1, p. 3-10. Dostupné na:* [*https://doi.org/10.1109/TNB.2021.3131755*](https://doi.org/10.1109/tnb.2021.3131755)*, Registrované v: WOS*

*6. [1.1] LAZO, P.P.L. - DE LA CRUZ, R.T.A. - MACABABAYAO, I.C.H. - CABARLE, F.G.C. Universality of SN P systems with stochastic application of rules. In JOURNAL OF MEMBRANE COMPUTING. ISSN 2523-8906, JUN 2022, vol. 4, no. 2, p. 166-176. Dostupné na:* [*https://doi.org/10.1007/s41965-022-00102-9*](https://doi.org/10.1007/s41965-022-00102-9)*, Registrované v: WOS*

*7. [1.1] LEPORATI, A. - MAURI, G. - ZANDRON, C. Spiking neural P systems: main ideas and results. In NATURAL COMPUTING. ISSN 1567-7818, DEC 2022, vol. 21, no. 4, SI, p. 629-649. Dostupné na:* [*https://doi.org/10.1007/s11047-022-09917-y*](https://doi.org/10.1007/s11047-022-09917-y)*, Registrované v: WOS*

*8. [1.1] LIU, Y.P. - ZHAO, Y.Z. Spiking Neural P Systems with Membrane Potentials, Inhibitory Rules, and Anti-Spikes. In ENTROPY. JUN 2022, vol. 24, no. 6. Dostupné na:* [*https://doi.org/10.3390/e24060834*](https://doi.org/10.3390/e24060834)*, Registrované v: WOS*

*9. [1.1] LIU, Y.P. - ZHAO, Y.Z. Spiking neural P systems with lateral inhibition. In NEURAL NETWORKS. ISSN 0893-6080, OCT 2023, vol. 167, p. 36-49. Dostupné na:* [*https://doi.org/10.1016/j.neunet.2023.08.013*](https://doi.org/10.1016/j.neunet.2023.08.013)*, Registrované v: WOS*

*10. [1.1] LIU, Y.P. - ZHAO, Y.Z. Weighted spiking neural P systems with polarizations and anti-spikes. In JOURNAL OF MEMBRANE COMPUTING. ISSN 2523-8906, DEC 2022, vol. 4, no. 4, p. 269-283. Dostupné na:* [*https://doi.org/10.1007/s41965-022-00112-7*](https://doi.org/10.1007/s41965-022-00112-7)*, Registrované v: WOS*

*11. [1.1] MACABABAYAO, I.C.H. - CABARLE, F.G.C. - DE LA CRUZ, R.T.A. - ZENG, X.X. Normal forms for spiking neural P systems and some of its variants. In INFORMATION SCIENCES. ISSN 0020-0255, MAY 2022, vol. 595, p. 344-363. Dostupné na:* [*https://doi.org/10.1016/j.ins.2022.03.002*](https://doi.org/10.1016/j.ins.2022.03.002)*, Registrované v: WOS*

*12. [1.1] NING, G.M. - VALENCIA-CABRERA, L. - SONG, X.X. Small universal improved spiking neural P systems with multiple channels and autapses. In JOURNAL OF MEMBRANE COMPUTING. ISSN 2523-8906, JUN 2022, vol. 4, no. 2, p. 153-165. Dostupné na:* [*https://doi.org/10.1007/s41965-022-00100-x*](https://doi.org/10.1007/s41965-022-00100-x)*, Registrované v: WOS*

*13. [1.1] RAMIREZ-DE-ARELLANO, A. - ORELLANA-MARTIN, D. - PEREZ-JIMENEZ, M.J. Using Virus Machines to Compute Pairing Functions. In INTERNATIONAL JOURNAL OF NEURAL SYSTEMS. ISSN 0129-0657, MAY 2023, vol. 33, no. 5. Dostupné na:* [*https://doi.org/10.1142/S0129065723500235*](https://doi.org/10.1142/s0129065723500235)*, Registrované v: WOS*

*14. [1.1] SUN, Z. - -CABRERA, L.V. - NING, G.M. - SONG, X.X. Spiking neural P systems without duplication. In INFORMATION SCIENCES. ISSN 0020-0255, OCT 2022, vol. 612, p. 75-86. Dostupné na:* [*https://doi.org/10.1016/j.ins.2022.08.098*](https://doi.org/10.1016/j.ins.2022.08.098)*, Registrované v: WOS*

*15. [1.1] TIAN, X. - LIU, X.Y. - REN, Q.Q. - ZHAO, Y.Z. Spiking Neural P Systems With Enzymes. In IEEE TRANSACTIONS ON NANOBIOSCIENCE. ISSN 1536-1241, OCT 2022, vol. 21, no. 4, p. 575-587. Dostupné na:* [*https://doi.org/10.1109/TNB.2022.3199767*](https://doi.org/10.1109/tnb.2022.3199767)*, Registrované v: WOS*

*16. [1.1] WU, T.F. - PAN, L.Q. Spiking Neural P Systems With Communication on Request and Mute Rules. In IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS. ISSN 1045-9219, FEB 1 2023, vol. 34, no. 2, p. 734-745. Dostupné na:* [*https://doi.org/10.1109/TPDS.2022.3228931*](https://doi.org/10.1109/tpds.2022.3228931)*, Registrované v: WOS*

*17. [1.1] XU, B.W. - JIANG, S.X. - SHEN, Z.C. - ZHU, X.L. - LIANG, T. Numerical spiking neural P systems with weights. In JOURNAL OF MEMBRANE COMPUTING. ISSN 2523-8906, MAR 2023, vol. 5, no. 1, p. 12-24. Dostupné na:* [*https://doi.org/10.1007/s41965-022-00116-3*](https://doi.org/10.1007/s41965-022-00116-3)*, Registrované v: WOS*

*18. [1.1] YANG, Q. - XIONG, X. - PENG, H. - WANG, J. - SONG, X.X. Nonlinear spiking neural P systems with multiple channels\*,\*\*. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, JUL 18 2023, vol. 965. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.113979*](https://doi.org/10.1016/j.tcs.2023.113979)*, Registrované v: WOS*

*19. [1.1] ZAITSEV, D.A. Strong Sleptsov nets are Turing complete. In INFORMATION SCIENCES. ISSN 0020-0255, APR 2023, vol. 621, p. 172-182. Dostupné na:* [*https://doi.org/10.1016/j.ins.2022.11.098*](https://doi.org/10.1016/j.ins.2022.11.098)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA193 | KOREC, Ivan. A list of arithmetical structures complete with respect to the first-order definability. In Theoretical Computer Science, 2001, vol. 257, no. 1-2, p. 115-151. ISSN 0304-3975. |

Citácie:

*1. [1.1] SEMENOV, A.L. - SOPRUNOV, S.F. The Lattice of Definability: Origins, Recent Developments, and Further Directions. In DOKLADY MATHEMATICS. ISSN 1064-5624, DEC 2022, vol. 106, no. SUPPL 2, p. S288-S298. Dostupné na:* [*https://doi.org/10.1134/S1064562423700370*](https://doi.org/10.1134/s1064562423700370)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA194 | KOSTYRKO, P. - MAČAJ, M. - ŠALÁT, T. - STRAUCH, Oto. On statistical limit points. In Proceedings of the American Mathematical Society, 2001, vol. 129, p. 2647-2654. ISSN 0002-9939. |

Citácie:

*1. [1.1] SINGHA, M. - HOM, U.K. Statistical compactness. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, FEB 15 2023, vol. 325. Dostupné na:* [*https://doi.org/10.1016/j.topol.2022.108391*](https://doi.org/10.1016/j.topol.2022.108391)*, Registrované v: WOS*

*2. [1.1] SINGHA, M. - HOM, U.K. Variant of thin sets and their influence in convergence. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 17, p. 5847-5858. Dostupné na:* [*https://doi.org/10.2298/FIL2317847S*](https://doi.org/10.2298/fil2317847s)*, Registrované v: WOS*

*3. [1.2] BISWAS, Bablu. On Statistically Internal Chain Transitive Sets in a Discrete Dynamical System. In Palestine Journal of Mathematics, 2023-01-01, 12, 1, pp. 916-921., Registrované v: SCOPUS*

*4. [3.1] ALTINOK, Maya. Weighted Statistical Limit Supremum-Infimum. In Turkish Journal of Mathematics and Computer Science, 2022. Vol. 14, issue 1, p. 16-23.* [*https://doi.org/10.47000/tjmcs.975585*](https://doi.org/10.47000/tjmcs.975585)

|  |  |
| --- | --- |
| ADCA195 | KOVÁCS, István - NEDELA, Roman. Skew-morphisms of cyclic p-groups. In Journal of group theory, 2017, vol. 20, no. 6, p. 1135-1154. (2016: 0.457 - IF, Q3 - JCR, 0.825 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1433-5883. Dostupné na: <https://doi.org/10.1515/jgth-2017-0015> |

Citácie:

*1. [1.2] DU, Shaofei - YU, Hao - LUO, Wenjuan. Regular Cayley maps of elementary abelian p-groups: Classification and enumeration. In Journal of Combinatorial Theory. Series A, 2023-08-01, 198, pp. ISSN 00973165. Dostupné na:* [*https://doi.org/10.1016/j.jcta.2023.105768*](https://doi.org/10.1016/j.jcta.2023.105768)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA196 | KRAL, A. - MAJERNÍK, Vladimír. On lateral inhibition in the auditory system. In General Physiology and Biophysics, 1996, vol. 15, no. 2, p. 109-127. (1995: 0.420 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0231-5882. |

Citácie:

*1. [1.1] SCHILLING, A. - SEDLEY, W. - GERUM, R. - METZNER, C. - TZIRIDIS, K. - MAIER, A. - SCHULZE, H. - ZENG, F.G. - FRISTON, K.J. - KRAUSS, P. Predictive coding and stochastic resonance as fundamental principles of auditory phantom perception. In BRAIN. ISSN 0006-8950, DEC 1 2023, vol. 146, no. 12, p. 4809-4825. Dostupné na:* [*https://doi.org/10.1093/brain/awad255*](https://doi.org/10.1093/brain/awad255)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA197 | LABEDZKI, G. - REPICKÝ, Miroslav. Hechler reals. In The Journal of Symbolic Logic, 1995, vol. 60, no. 2, p. 444-458. ISSN 0022-4812. |

Citácie:

*1. [1.1] KHOMSKII, Yurii - KOELBING, Marlene - LAGUZZI, Giorgio - WOHOFSKY, Wolfgang. Laver Trees in the Generalized Baire Space. In ISRAEL JOURNAL OF MATHEMATICS, 2023, vol. 255, no. 2, pp. 599-620. ISSN 0021-2172. Dostupné na:* [*https://doi.org/10.1007/s11856-022-2465-5*](https://doi.org/10.1007/s11856-022-2465-5)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA198 | LI, Mengmeng - FEČKAN, Michal - WANG, JinRong\*\*. Representation and finite time stability of solution and relative controllability of conformable type oscillating systems. In Mathematical Methods in the Applied Sciences, 2023, vol. 46, no. 4, p. 3966-3982. (2022: 2.9 - IF, Q1 - JCR, 0.628 - SJR, Q1 - SJR). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.8733> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] HUANG, Jizhao - LUO, Danfeng - ZHU, Quanxin. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS, 2023, vol. 170, no., pp. ISSN 0960-0779. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA199 | LIU, Kui - FEČKAN, Michal\*\* - WANG, JinRong. A fixed-point approach to the Hyers-Ulam stability of Caputo-Fabrizio fractional differential equations. In Mathematics, 2020, vol. 8, no. 647, p. 1-12. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8040647> |

Citácie:

*1. [1.1] KISKINOV, H. - MILEV, M. - VESELINOVA, M. - ZAHARIEV, A. Continuous Dependence on the Initial Functions and Stability Properties in Hyers-Ulam-Rassias Sense for Neutral Fractional Systems with Distributed Delays. In FRACTAL AND FRACTIONAL. OCT 2023, vol. 7, no. 10. Dostupné na:* [*https://doi.org/10.3390/fractalfract7100742*](https://doi.org/10.3390/fractalfract7100742)*, Registrované v: WOS*

*2. [1.1] PATANARAPEELERT, N. - ASMA, A. - ALI, A. - SHAH, K. - ABDELJAWAD, T. - SITTHIWIRATTHAM, T. STUDY OF A COUPLED SYSTEM WITH ANTI-PERIODIC BOUNDARY CONDITIONS UNDER PIECEWISE CAPUTO-FABRIZIO DERIVATIVE. In THERMAL SCIENCE. ISSN 0354-9836, 2023, vol. 27, SI, p. S287-S300. Dostupné na:* [*https://doi.org/10.2298/TSCI23S1287P*](https://doi.org/10.2298/tsci23s1287p)*, Registrované v: WOS*

*3. [1.2] LIANG, Yixing - SHI, Yang - FAN, Zhenbin. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In Fractional Calculus and Applied Analysis, 2023-02-01, 26, 1, pp. 439-460. ISSN 13110454. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: SCOPUS*

*4. [1.2] SHAH, Nita H. - CHAUDHARY, Kapil. Analysis of the Ebola with a fractional-order model involving the Caputo-Fabrizio derivative. In Songklanakarin Journal of Science and Technology, 2023-01-01, 45, 1, pp. 69-79. ISSN 01253395., Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA200 | LIU, Kui - FEČKAN, Michal\*\* - WANG, JinRong. Hyers-Ulam stability and existence of solutions to the generalized Liouville-Caputo fractional differential equations. In Symmetry-basel, 2020, vol. 12, no. 955, p. 1-18. (2019: 2.645 - IF, Q2 - JCR, 0.365 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-8994. Dostupné na: <https://doi.org/10.3390/sym12060955> |

Citácie:

*1. [1.1] DILNA, N. Precise Conditions on the Unique Solvability of the Linear Fractional Functional Differential Equations Related to the σ-Nonpositive Operators. In FRACTAL AND FRACTIONAL. OCT 2023, vol. 7, no. 10. Dostupné na:* [*https://doi.org/10.3390/fractalfract7100720*](https://doi.org/10.3390/fractalfract7100720)*, Registrované v: WOS*

*2. [1.1] ESMAEILNEIA, S. - DEHKHARGHANI, R.A. - BENISI, S.Z. Architecture of a dual biocompatible platform to immobilize genistin: fabrication with physio-chemical and in vitro evaluation. In SCIENTIFIC REPORTS. ISSN 2045-2322, DEC 18 2023, vol. 13, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41598-023-49513-3*](https://doi.org/10.1038/s41598-023-49513-3)*, Registrované v: WOS*

*3. [1.2] FARMAN, Muhammad - SHEHZAD, Aamir - NISAR, Kottakkaran Sooppy - HINCAL, Evren - AKGUL, Ali - HASSAN, Ahmed Muhammad. Generalized Ulam-Hyers-Rassias stability and novel sustainable techniques for dynamical analysis of global warming impact on ecosystem. In Scientific Reports, 2023-12-01, 13, 1, pp. Dostupné na:* [*https://doi.org/10.1038/s41598-023-49806-7*](https://doi.org/10.1038/s41598-023-49806-7)*, Registrované v: SCOPUS*

*4. [1.2] ODIONYENMA, Udoka Benedict - IKENNA, Nometa - BOLAJI, Bolarinwa. Analysis of a model to control the co-dynamics of Chlamydia and Gonorrhea using Caputo fractional derivative. In Mathematical Modelling and Numerical Simulation with Applications, 2023-06-30, 3, 2, pp. 111-140. Dostupné na:* [*https://doi.org/10.53391/mmnsa.1320175*](https://doi.org/10.53391/mmnsa.1320175)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA201 | LIU, Kui - WANG, JinRong - O´REGAN, Donal - FEČKAN, Michal. A New Class of (ω, c)-Periodic Non-instantaneous Impulsive Differential Equations. In Mediterranean Journal of Mathematics, 2020, vol. 17, art. no. 155, p. 1-22. (2019: 1.216 - IF, Q1 - JCR, 0.573 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-020-01574-8> |

Citácie:

*1. [1.1] AL-OMARI, A. - AL-SAADI, H. (ω,ρ)-BVP Solution of Impulsive Hadamard Fractional Differential Equations. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204370*](https://doi.org/10.3390/math11204370)*, Registrované v: WOS*

*2. [1.1] ALVAREZ, E. - DíAZ, S. - GRAU, R. (ω, Q)-periodic mild solutions for a class of semilinear abstract differential equations and applications to Hopfield-type neural network model. In ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK. ISSN 0044-2275, APR 2023, vol. 74, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00033-023-01943-9*](https://doi.org/10.1007/s00033-023-01943-9)*, Registrované v: WOS*

*3. [1.1] CHANG, Y.K. - ZHAO, J.G. Pseudo S-asymptotically (?, c)-periodic solutions to some evolution equations in Banach spaces. In BANACH JOURNAL OF MATHEMATICAL ANALYSIS. ISSN 2662-2033, APR 2023, vol. 17, no. 2. Dostupné na:* [*https://doi.org/10.1007/s43037-023-00260-7*](https://doi.org/10.1007/s43037-023-00260-7)*, Registrované v: WOS*

*4. [1.1] DENG, H. - LI, C.D. - WANG, Y.N. Asymptotic stability of non-instantaneous impulsive systems and T-S fuzzy non-instantaneous impulsive control for nonlinear systems. In IET CONTROL THEORY AND APPLICATIONS. ISSN 1751-8644, JUN 2023, vol. 17, no. 9, p. 1184-1202. Dostupné na:* [*https://doi.org/10.1049/cth2.12448*](https://doi.org/10.1049/cth2.12448)*, Registrované v: WOS*

*5. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. 1-543. Dostupné na:* [*https://doi.org/10.1515/9783111233871*](https://doi.org/10.1515/9783111233871)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA202 | LIU, Kui - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong\*\*. (ω, c)-periodic solutions for time-varying non-instantaneous impulsive differential systems. In Applicable Analysis, 2022, vol. 101, no. 15, p. 5469-5489. (2021: 1.278 - IF, Q3 - JCR, 0.548 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036811.2021.1895123> |

Citácie:

*1. [1.1] ALVAREZ, E. - GRAU, R. - MERIñO, R. (ω, c)-periodic solutions for a class of fractional integrodifferential equations. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, APR 7 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01726-1*](https://doi.org/10.1186/s13661-023-01726-1)*, Registrované v: WOS*

*2. [1.1] CHAUDHARY, R. - REICH, S. Extremal mild solutions to fractional delay integro-differential equations with non-instantaneous impulses. In APPLICABLE ANALYSIS. ISSN 0003-6811, MAY 3 2023, vol. 102, no. 7, p. 1975-1994. Dostupné na:* [*https://doi.org/10.1080/00036811.2021.2011245*](https://doi.org/10.1080/00036811.2021.2011245)*, Registrované v: WOS*

*3. [1.1] DENG, H. - LI, C.D. - WANG, Y.N. Asymptotic stability of non-instantaneous impulsive systems and T-S fuzzy non-instantaneous impulsive control for nonlinear systems. In IET CONTROL THEORY AND APPLICATIONS. ISSN 1751-8644, JUN 2023, vol. 17, no. 9, p. 1184-1202. Dostupné na:* [*https://doi.org/10.1049/cth2.12448*](https://doi.org/10.1049/cth2.12448)*, Registrované v: WOS*

*4. [1.1] GOU, H.D. - LI, Y.X. Extremal mild solutions to Hilfer evolution equations with non-instantaneous impulses and nonlocal conditions. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, JUN 2023, vol. 26, no. 3, p. 1145-1185. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00143-6*](https://doi.org/10.1007/s13540-023-00143-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA203 | LIU, Kui - FEČKAN, Michal - O';REGAN, D. - WANG, JinRong\*\*. Hyers-Ulam stability and existence of solutions for differential equations with Caputo-Fabrizio fractional derivative. In Mathematics, 2019, vol. 7, no. 4, art. no. 333. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math7040333> |

Citácie:

*1. [1.1] AL-SADI, W. - WEI, Z.C. - MOROZ, I. - ALKHAZZAN, A. EXISTENCE AND STABILITY OF SOLUTION IN BANACH SPACE FOR AN IMPULSIVE SYSTEM INVOLVING ATANGANA-BALEANU AND CAPUTO-FABRIZIO DERIVATIVES. In FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY. ISSN 0218-348X, 2023, vol. 31, no. 10. Dostupné na:* [*https://doi.org/10.1142/S0218348X23400856*](https://doi.org/10.1142/s0218348x23400856)*, Registrované v: WOS*

*2. [1.1] ALAM, M. - KHAN, A. - ASIF, M. Analysis of implicit system of fractional order via generalized boundary conditions. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 10554-10571. Dostupné na:* [*https://doi.org/10.1002/mma.9139*](https://doi.org/10.1002/mma.9139)*, Registrované v: WOS*

*3. [1.1] GUO, L.M. - RIAZ, U. - ZADA, A. - ALAM, M. On Implicit Coupled Hadamard Fractional Differential Equations with Generalized Hadamard Fractional Integro-Differential Boundary Conditions. In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010013*](https://doi.org/10.3390/fractalfract7010013)*, Registrované v: WOS*

*4. [1.1] KISKINOV, H. - MILEV, M. - VESELINOVA, M. - ZAHARIEV, A. Continuous Dependence on the Initial Functions and Stability Properties in Hyers-Ulam-Rassias Sense for Neutral Fractional Systems with Distributed Delays. In FRACTAL AND FRACTIONAL. OCT 2023, vol. 7, no. 10. Dostupné na:* [*https://doi.org/10.3390/fractalfract7100742*](https://doi.org/10.3390/fractalfract7100742)*, Registrované v: WOS*

*5. [1.1] PATANARAPEELERT, N. - ASMA, A. - ALI, A. - SHAH, K. - ABDELJAWAD, T. - SITTHIWIRATTHAM, T. STUDY OF A COUPLED SYSTEM WITH ANTI-PERIODIC BOUNDARY CONDITIONS UNDER PIECEWISE CAPUTO-FABRIZIO DERIVATIVE. In THERMAL SCIENCE. ISSN 0354-9836, 2023, vol. 27, SI, p. S287-S300. Dostupné na:* [*https://doi.org/10.2298/TSCI23S1287P*](https://doi.org/10.2298/tsci23s1287p)*, Registrované v: WOS*

*6. [1.1] RIAZ, U. - ZADA, A. - RIZWAN - KHAN, I. - MOHAMED, M.M.I. - OMER, A.S.A. - RIZWAN. Analysis of nonlinear implicit coupled Hadamard fractional differential equations with semi-coupled Hadamard fractional integro-multipoints boundary conditions. In AIN SHAMS ENGINEERING JOURNAL. ISSN 2090-4479, NOV 2023, vol. 14, no. 11. Dostupné na:* [*https://doi.org/10.1016/j.asej.2023.102543*](https://doi.org/10.1016/j.asej.2023.102543)*, Registrované v: WOS*

*7. [1.1] SUDSUTAD, W. - LEWKEERATIYUTKUL, W. - THAIPRAYOON, C. - KONGSON, J. Existence and stability results for impulsive (k, ψ)-Hilfer fractional double integro-differential equation with mixed nonlocal conditions. In AIMS MATHEMATICS. 2023, vol. 8, no. 9, p. 20437-20476. Dostupné na:* [*https://doi.org/10.3934/math.20231042*](https://doi.org/10.3934/math.20231042)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA204 | LIU, Rui - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. Ulam type stability for first-order linear and nonlinear impulsive fuzzy differential equations. In International Journal of Computer Mathematics, 2022, vol. 99, no. 6, p. 1281-1303. (2021: 1.750 - IF, Q2 - JCR, 0.519 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0020-7160. Dostupné na: <https://doi.org/10.1080/00207160.2021.1967940> |

Citácie:

*1. [1.1] AKRAM, M. - YOUSUF, M. - BILAL, M. Solution method for fifth-order fuzzy initial value problem. In GRANULAR COMPUTING. ISSN 2364-4966, NOV 2023, vol. 8, no. 6, p. 1229-1252. Dostupné na:* [*https://doi.org/10.1007/s41066-023-00403-z*](https://doi.org/10.1007/s41066-023-00403-z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA205 | LIU, Rui - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong. Controllability Results for First Order Impulsive Fuzzy Differential Systems. In Axioms, 2022, vol. 11, art. no. 471. (2021: 1.824 - IF, Q2 - JCR, 0.441 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms11090471> |

Citácie:

*1. [1.1] FEKETA, P. - FEDORENKO, J. - BEZUSHCHAK, D. - SUKRETNA, A. ω-Limit Sets of Impulsive Semigroups for Hyperbolic Equations. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100918*](https://doi.org/10.3390/axioms12100918)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA206 | LIU, Shengda - WANG, JinRong\*\* - SHEN, Dong - FEČKAN, Michal. Iterative learning control for nonlinear differential inclusion systems. In International Journal of Robust and Nonlinear Contro, 2020, vol. 30, p. 2937-2952. (2019: 3.503 - IF, Q1 - JCR, 1.631 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1049-8923. Dostupné na: <https://doi.org/10.1002/rnc.4920> |

Citácie:

*1. [1.1] HUI, Y. - CHI, R.H. - LIU, Y. Data-based analysis of iterative learning control for MIMO nonaffine nonlinear systems with multiple nonrepetitive uncertainties. In INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL. ISSN 1049-8923, AUG 2023, vol. 33, no. 12, p. 6916-6931. Dostupné na:* [*https://doi.org/10.1002/rnc.6736*](https://doi.org/10.1002/rnc.6736)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA207 | LUO, Dahui - WANG, JinRong\*\* - SHEN, Dong - FEČKAN, Michal. Iterative learning control for fractional-order multi-agent systems. In Journal of The Franklin Institute, 2019, vol. 356, p. 6328-6351. (2018: 3.653 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0016-0032. Dostupné na: <https://doi.org/10.1016/j.jfranklin.2019.06.001> |

Citácie:

*1. [1.1] BAHRAMPOUR, E. - ASEMANI, M.H. - DEHGHANI, M. - TAVAZOEI, M. Consensus control of incommensurate fractional-order multi-agent systems: An LMI approach. In JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS. ISSN 0016-0032, APR 2023, vol. 360, no. 6, p. 4031-4055. Dostupné na:* [*https://doi.org/10.1016/j.jfranklin.2023.02.025*](https://doi.org/10.1016/j.jfranklin.2023.02.025)*, Registrované v: WOS*

*2. [1.1] LIU, Y.S. - WANG, L.M. Event-Triggered Saturated Adaptive Iterative Learning Control of Nonlinear Fractional-Order Multi-Agent Systems. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 75351-75364. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3295827*](https://doi.org/10.1109/access.2023.3295827)*, Registrované v: WOS*

*3. [1.1] ZHANG, B.T. - LUO, H.B. Two-Dimensional Fractional Order Iterative Learning Control for Repetitive Processes. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080624*](https://doi.org/10.3390/fractalfract7080624)*, Registrované v: WOS*

*4. [1.1] ZHOU, Y.J. - CUI, B.T. - ZHUANG, B. - CHEN, J. Mittag-Leffler stability analysis for time-fractional hyperbolic systems with space-dependent reactivity using backstepping-based boundary control. In INTERNATIONAL JOURNAL OF MODELLING IDENTIFICATION AND CONTROL. ISSN 1746-6172, 2023, vol. 43, no. 1, p. 1-12. Dostupné na:* [*https://doi.org/10.1504/IJMIC.2023.132106*](https://doi.org/10.1504/ijmic.2023.132106)*, Registrované v: WOS*

*5. [1.2] ZHANG, Hui - YIN, Guoliang - ZHANG, Zhaowei - WU, Zhiguo - ZUO, Xiaozhong. Speed Control of Ultrasonic Motor Based on Muller Iteration. In Proceedings 2023 International Conference on Artificial Intelligence and Automation Control, AIAC 2023, 2023-01-01, pp. 308-313. Dostupné na:* [*https://doi.org/10.1109/AIAC61660.2023.00066*](https://doi.org/10.1109/aiac61660.2023.00066)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA208 | LUO, Mei - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. g-Expectation for Conformable Backward Stochastic Differential Equations. In Axioms, 2022, vol. 11, no. 2, art. no. 75. (2021: 1.824 - IF, Q2 - JCR, 0.441 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms11020075> |

Citácie:

*1. [1.1] ZHANG, P. - MOHAMED, N.A. - IBRAHIM, A.I.N. Mean-Field and Anticipated BSDEs with Time-Delayed Generator. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040888*](https://doi.org/10.3390/math11040888)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA209 | MAJERNÍK, Vladimír - MAJERNÍKOVÁ, Eva - SHPYRKO, S. Uncertainty relations expressed by Shannon-like entropies. In Central European Journal of Physics, 2003, vol. 1, no. 3, p. 393-420. www.cesj.com. |

Citácie:

*1. [1.1] KIRCHBACH, M. - VALLEJO, J. A. Wave functions of the Hydrogen atom in the momentum representation. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2023, vol. 56, no. 12, pp. ISSN 1751-8113. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acbc5a*](https://doi.org/10.1088/1751-8121/acbc5a)*, Registrované v: WOS*

*2. [1.1] LU, Yao - XIE, Huan - ZHANG, Jixian - JIN, Yanmin - FENG, Yongjiu - GONG, Yali - HAN, Wenli - ZHANG, He - TONG, Xiaohua. Fractal Theory Based Stratified Sampling for Quality Assessment of Remote-Sensing-Derived Geospatial Data. In IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, 2023, vol. 16, no., pp. 7100-7111. ISSN 1939-1404. Dostupné na:* [*https://doi.org/10.1109/JSTARS.2023.3287347*](https://doi.org/10.1109/jstars.2023.3287347)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA210 | MAJERNÍK, Vladimír - RICHTEREK, L. Entropic uncertainty relations for the infinite well. In Journal of Physics A: Mathematical and General, 1997, vol. 30, l49-L54. ISSN 0305-4470. |

Citácie:

*1. [1.1] PEREPELKIN, E.E. - SADOVNIKOV, B. - INOZEMTSEVA, N.G. - ALEKSANDROV, I.I. Exact time-dependent solution of the Schrodinger equation, its generalization to the phase space and relation to the Gibbs distribution. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2023, vol. 98, no. 1. Dostupné na:* [*https://doi.org/10.1088/1402-4896/acab39*](https://doi.org/10.1088/1402-4896/acab39)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA211 | MAJERNÍK, Vladimír - MAJERNÍKOVÁ, Eva. Standard and entropic uncertainty relations of the finite well. In Journal of Physics A: Mathematical and Theoretical, 2002, vol. 35, no. 27, p. 5751-5761. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/0305-4470/35/27/314> |

Citácie:

*1. [1.1] SANTANA-CARRILLO, R. - LEON-MONTIEL, Roberto de J. - SUN, Guo-Hua - DONG, Shi-Hai. Quantum Information Entropy for Another Class of New Proposed Hyperbolic Potentials. In ENTROPY, 2023, vol. 25, no. 9, pp. Dostupné na:* [*https://doi.org/10.3390/e25091296*](https://doi.org/10.3390/e25091296)*, Registrované v: WOS*

*2. [1.1] SANTANA-CARRILLO, R. - PETO, J. M. Velazquez - SUN, Guo-Hua - DONG, Shi-Hai. Quantum Information Entropy for a Hyperbolic Double Well Potential in the Fractional Schrodinger Equation. In ENTROPY, 2023, vol. 25, no. 7, pp. Dostupné na:* [*https://doi.org/10.3390/e25070988*](https://doi.org/10.3390/e25070988)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA212 | MAJERNÍK, Vladimír - CHARVOT, R. - MAJERNÍKOVÁ, Eva. The momentum entropy of the infinite potential well. In Journal of Physics A, 1999, vol. 32, no. 11, p. 2207-2216. ISSN 0305-4470. Dostupné na: <https://doi.org/10.1088/0305-4470/32/11/013> |

Citácie:

*1. [1.1] LIMA, F. C. E. - MOREIRA, A. R. P. - ALMEIDA, C. A. S. - EDET, C. O. - ALI, N. Quantum information entropy of a particle trapped by the Aharonov-Bohm-type effect. In PHYSICA SCRIPTA, 2023, vol. 98, no. 6, pp. ISSN 0031-8949. Dostupné na:* [*https://doi.org/10.1088/1402-4896/acd309*](https://doi.org/10.1088/1402-4896/acd309)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA213 | MARKECHOVÁ, Dagmar\*\* - RIEČAN, Beloslav. K-L Divergence, entropy and mutual information of experiments in the intuitionistic fuzzy case. In Journal of Intelligent and Fuzzy Systems, 2019, vol. 36, no. 4, p. 3857-3867. (2018: 1.637 - IF, Q3 - JCR, 0.412 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1064-1246. Dostupné na: [https://doi.org/10.3233/JIFS-18053](https://doi.org/10.3233/jifs-18053) |

Citácie:

*1. [1.1] HE, Z.F. - ZHANG, H. - MA, H. - ZOU, Y. - ZHOU, J.T. - LIAO, L. Study on magnetic memory detection of weld fatigue damage by using the relative entropy theory. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, MAR 15 2023, vol. 570. Dostupné na:* [*https://doi.org/10.1016/j.jmmm.2023.170472*](https://doi.org/10.1016/j.jmmm.2023.170472)*, Registrované v: WOS*

*2. [1.1] LI, S.J. - XIN, J.Z. - JIANG, Y. - WANG, C.W. - ZHOU, J.T. - YANG, X.Y. Temperature-induced deflection separation based on bridge deflection data using the TVFEMD-PE-KLD method. In JOURNAL OF CIVIL STRUCTURAL HEALTH MONITORING. ISSN 2190-5452, MAR 2023, vol. 13, no. 2-3, p. 781-797. Dostupné na:* [*https://doi.org/10.1007/s13349-023-00679-4*](https://doi.org/10.1007/s13349-023-00679-4)*, Registrované v: WOS*

*3. [1.1] XIN, J.Z. - TANG, H.J. - WANG, J.Y. - TANG, Q.Z. - XIN, D.W. - QU, J.Q. AUTOMATIC SEPARATION OF TEMPERATURE EFFECTS FROM BRIDGE CABLE FORCE DATA BASED ON THE VMD-PE-KLD ALGORITHM. In INTERNATIONAL JOURNAL OF ROBOTICS & AUTOMATION. ISSN 0826-8185, 2023, vol. 38, no. 3, p. 247-258. Dostupné na:* [*https://doi.org/10.2316/J.2023.206-0910)*](https://doi.org/10.2316/j.2023.206-0910))*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA214 | MARKECHOVÁ, Dagmar\*\* - RIEČAN, Beloslav\*. Tsallis entropy of product MV-algebra dynamical systems. In Entropy, 2018, vol. 20, no. 8, art. no. 589, p. 1-19. (2017: 2.305 - IF, Q2 - JCR, 0.592 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e20080589> |

Citácie:

*1. [1.1] RAM, G. - KUMAR, S. Coding Theorem Based on λ-Norm Entropy for Partitions in Product MV-Algebras. In JOURNAL OF MATHEMATICAL EXTENSION. ISSN 1735-8299, 2023, vol. 17, no. 6. Dostupné na:* [*https://doi.org/10.30495/JME.2023.2319*](https://doi.org/10.30495/jme.2023.2319)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA215 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Entropy of fuzzy partitions and entropy of fuzzy dynamical systems. In Entropy, 2016, vol. 18, no. 1, p. 1-10. (2015: 1.743 - IF, Q2 - JCR, 0.551 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e18010019> |

Citácie:

*1. [1.1] BARBIERI, G.G. - BEDROOD, M. - LENZI, G. Entropies and Dynamical Systems in Riesz MV-algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, MAY 31 2023, vol. 62, no. 6. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05367-z*](https://doi.org/10.1007/s10773-023-05367-z)*, Registrované v: WOS*

*2. [1.1] MARTYNYUK, A. - STAMOV, G. - STAMOVA, I. - MARTYNYUK-CHERNIENKO, Y. On the Analysis of Regularized Fuzzy Systems of Uncertain Differential Equations. In ENTROPY. JUL 2023, vol. 25, no. 7. Dostupné na:* [*https://doi.org/10.3390/e25071010*](https://doi.org/10.3390/e25071010)*, Registrované v: WOS*

*3. [1.1] NAZARI, Z. - MOSAPOUR, B. - ZANGIABADI, E. - EBRAHIMZADEH, A. Entropy of Dynamical Systems on Interval-Valued Intuitionistic Fuzzy Sets. In NEW MATHEMATICS AND NATURAL COMPUTATION. ISSN 1793-0057, JUL 2023, vol. 19, no. 02, p. 541-556. Dostupné na:* [*https://doi.org/10.1142/S1793005723500217*](https://doi.org/10.1142/s1793005723500217)*, Registrované v: WOS*

*4. [1.1] YAO, G. - LI, R. - YANG, Y. An Improved Multi-Objective Optimization and Decision-Making Method on Construction Sites Layout of Prefabricated Buildings. In SUSTAINABILITY. APR 2023, vol. 15, no. 7. Dostupné na:* [*https://doi.org/10.3390/su15076279*](https://doi.org/10.3390/su15076279)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA216 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy of fuzzy dynamical systems. In Entropy, 2016, vol. 18, no. 4, p. 1-16. (2015: 1.743 - IF, Q2 - JCR, 0.551 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e18040157> |

Citácie:

*1. [1.1] BARBIERI, G.G. - BEDROOD, M. - LENZI, G. Entropies and Dynamical Systems in Riesz MV-algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, MAY 31 2023, vol. 62, no. 6. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05367-z*](https://doi.org/10.1007/s10773-023-05367-z)*, Registrované v: WOS*

*2. [1.1] HELMY, B.A. - HASSAN, A.S. - EL-KHOLY, A.K. - BANTAN, R.A.R. - ELGARHY, M. Analysis of information measures using generalized type-I hybrid censored data. In AIMS MATHEMATICS. 2023, vol. 8, no. 9, p. 20283-20304. Dostupné na:* [*https://doi.org/10.3934/math.20231034*](https://doi.org/10.3934/math.20231034)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA217 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy and logical mutual information of experiments in the intuitionistic fuzzy case. In Entropy, 2017, vol. 19, no. 8, art. no. 429, p. 1-19. (2016: 1.821 - IF, Q2 - JCR, 0.560 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e19080429> |

Citácie:

*1. [1.1] BOFFA, S. - CIUCCI, D. Logical entropy and aggregation of fuzzy orthopartitions. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 77-101. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.07.014*](https://doi.org/10.1016/j.fss.2022.07.014)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA218 | MEDINA, Jesús - OJEDA-ACIEGO, M. - PÓCS, Jozef - RAMÍREZ-POUSSA, E. On the Dedekind-MacNeille completion and formal concept analysis based on multilattices. In Fuzzy Sets and Systems, 2016, vol. 303, p. 1-20. (2015: 2.098 - IF, Q1 - JCR, 1.354 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2016.01.007> |

Citácie:

*1. [1.1] ANTONI, L. - ELIAS, P. - HORVáTH, T. - KRAJCI, S. - KRíDLO, O. - TöRöK, C. Squared Symmetric Formal Contexts and Their Connections with Correlation Matrices. In GRAPH-BASED REPRESENTATION AND REASONING, ICCS 2023. ISSN 2945-9133, 2023, vol. 14133, p. 19-27. Dostupné na:* [*https://doi.org/10.1007/978-3-031-40960-8\_2*](https://doi.org/10.1007/978-3-031-40960-8_2)*, Registrované v: WOS*

*2. [1.1] NJIONOU, B.B.K. - KWUIDA, L. - LELE, C. Formal Concepts and Residuation on Multilattices. In FUNDAMENTA INFORMATICAE. ISSN 0169-2968, 2022, vol. 188, no. 4, p. 217-237. Dostupné na:* [*https://doi.org/10.3233/FI-222147*](https://doi.org/10.3233/fi-222147)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA219 | MEDVEĎ, Milan - POSPÍŠIL, Michal\*\*. On the existence and exponential stability for differential equations with multiple constant delays and nonlinearity depending on fractional substantial integrals. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 43, p. 1-17. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2019.1.43> |

Citácie:

*1. [1.1] CERMáK, J. - KISELA, T. - NECHVáTAL, L. The Lambert function method in qualitative analysis of fractional delay differential equations. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. Vol. 26, p. 1545-1565. ISSN 1311-0454, 2023 JUN 16 2023. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00176-x*](https://doi.org/10.1007/s13540-023-00176-x)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA220 | MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Residual implications and left-continuous t-norms which are ordinal sums of semigroups. In Fuzzy Sets and Systems, 2004, vol. 143, no. 1, p. 47-57. (2003: 0.577 - IF, Q3 - JCR, 0.741 - SJR, Q2 - SJR). ISSN 0165-0114. |

Citácie:

*1. [1.1] COLETTI, G. - PETTURITI, D. - VANTAGGI, B. Consequences of the minimum specificity principle on conditioning and on independence in possibility theory. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING. ISSN 0888-613X, SEP 2023, vol. 160, art. nr. 10897. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2023.108972*](https://doi.org/10.1016/j.ijar.2023.108972)*, Registrované v: WOS*

*2. [1.1] DAN, Y.X. - PAN, X.D. Lifting negations and implications on bounded subposets of a complete lattice. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, AUG 30 2023, vol. 466, art. nr. 108442. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.11.013*](https://doi.org/10.1016/j.fss.2022.11.013)*, Registrované v: WOS*

*3. [1.1] FANG, B.W. On alpha-cross-migrativity of t-conorms over fuzzy implications. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, AUG 30 2023, vol. 466, art. nr. 108463. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.12.019*](https://doi.org/10.1016/j.fss.2022.12.019)*, Registrované v: WOS*

*4. [1.1] FANG, Bo Wen - WU, Jin Ke. On interval fuzzy implications derived from interval additive generators of interval t-norms. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, 2023, vol. 153, no., pp. 1-17. ISSN 0888-613X. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2022.11.014*](https://doi.org/10.1016/j.ijar.2022.11.014)*, Registrované v: WOS*

*5. [1.1] ZHAO, Bin - LU, Jing. On the distributivity for the ordinal sums of implications over t-norms and t-conorms. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, 2023, vol. 152, no., pp. 284-296. ISSN 0888-613X. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2022.10.012*](https://doi.org/10.1016/j.ijar.2022.10.012)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA221 | MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, K. Discrete Choquet integral and some of its symmetric extensions. In Fuzzy Sets and Systems, 2011, vol. 184, no. 1, p. 148-155. (2010: 1.875 - IF, Q1 - JCR, 1.274 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2010.11.013> |

Citácie:

*1. [1.1] AGGARWAL, M. - TEHRANI, A.F. Heuristics-based modelling of human   
  
decision process. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, MAY-JUN 2023, vol. 20, no. 3, p. 19-30., Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA222 | MESIAR, Radko - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, Khurshid. Level-dependent Sugeno integral. In IEEE Transactions on Fuzzy Systems, 2009, vol. 17, no. 1, p. 167-172. (2008: 3.624 - IF, Q1 - JCR, 2.581 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1063-6706. |

Citácie:

*1. [1.1] HORANSKá, L. - TAKáC, Z. On comonotone k-maxitive aggregation functions. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, JUN 30 2023, vol. 462, art. nr. 108414. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.10.006*](https://doi.org/10.1016/j.fss.2022.10.006)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA223 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. H-transformation of t-norms. In Information Sciences, 2006, vol. 176, no. 11, p. 1531-1545. ISSN 0020-0255. |

Citácie:

*1. [1.1] WANG, X.P. - LIANG, S.D. Additive generators of 2-uninorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, DEC 15 2023, vol. 473, art. nr. 108721. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108721*](https://doi.org/10.1016/j.fss.2023.108721)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA224 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Approximation of k-Lipschitz t-norms by strict and nilpotent k-Lipschitz t-norms. In International Journal of General Systems, 2007, vol. 36, no. 2, p. 205-218. ISSN 0308-1079. |

Citácie:

*1. [1.1] HUSSAIN, A. - ULLAH, K. - MUBASHER, M. - SENAPATI, T. - MOSLEM, S. Interval-Valued Pythagorean Fuzzy Information Aggregation Based on Aczel-Alsina Operations and Their Application in Multiple Attribute Decision Making. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 34575-34594. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3244612*](https://doi.org/10.1109/access.2023.3244612)*, Registrované v: WOS*

*2. [1.2] PENG, Boya - SUN, Zhiyuan - LIU, Mosi. Medium and Long Term Scenario Generation Method Based on Autoencoder and Generation Adversarial Network. In 2023 3rd International Conference on Neural Networks, Information and Communication Engineering, NNICE 2023, 2023-01-01, pp. 639-645. Dostupné na:* [*https://doi.org/10.1109/NNICE58320.2023.10105806*](https://doi.org/10.1109/nnice58320.2023.10105806)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA225 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Continuous triangular subnorms. In Fuzzy Sets and Systems, 2004, vol. 142, no. 1, p. 75-83. (2003: 0.577 - IF, Q3 - JCR, 0.741 - SJR, Q2 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2003.10.033> |

Citácie:

*1. [1.1] LAI, H.L. - SUN, J. The construction of t-norms on product posets by distributive t-subnorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, SEP 15 2023, vol. 467, art. nr. 108567. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108567*](https://doi.org/10.1016/j.fss.2023.108567)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA226 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Ranks of additive generators. In Fuzzy Sets and Systems, 2009, vol. 160, no. 14, p. 2032-2048. (2008: 1.833 - IF, Q1 - JCR, 1.539 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0165-0114. |

Citácie:

*1. [1.1] GARCíA-ZAMORA, D. - PAIVA, R. - CRUZ, A. - FERNANDEZ, J. - BUSTINCE, H. Some Construction Methods for Pseudo-Overlaps and Pseudo-Groupings and Their Application in Group Decision Making. In AXIOMS. JUN 2023, vol. 12, no. 6, art. nr. 589. Dostupné na:* [*https://doi.org/10.3390/axioms12060589*](https://doi.org/10.3390/axioms12060589)*, Registrované v: WOS*

*2. [1.1] WANG, X.P. - LIANG, S.D. Additive generators of 2-uninorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, DEC 15 2023, vol. 473, art. nr. 108721. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108721*](https://doi.org/10.1016/j.fss.2023.108721)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA227 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of n-uninorms with continuous underlying functions via z-ordinal sum construction. In International Journal of Approximate Reasoning, 2021, vol. 133, p. 60-79. (2020: 3.816 - IF, Q2 - JCR, 1.039 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0888-613X. Dostupné na: <https://doi.org/10.1016/j.ijar.2021.03.006> |

Citácie:

*1. [1.1] LIU, S.P. - QIN, F. Conditional distributivity of continuous triangular norms over 2-uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, APR 2023, vol. 20, no. 2, p. 69-82. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7557*](https://doi.org/10.22111/ijfs.2023.7557)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA228 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. The n-uninorms with continuous underlying t-norms and t-conorms. In International Journal of General Systems, 2021, vol. 50, no. 1, p. 92-116. (2020: 2.080 - IF, Q2 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0308-1079. Dostupné na: <https://doi.org/10.1080/03081079.2020.1863395> |

Citácie:

*1. [1.1] LIU, S.P. - QIN, F. Conditional distributivity of continuous triangular norms over 2-uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, APR 2023, vol. 20, no. 2, p. 69-82. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7557*](https://doi.org/10.22111/ijfs.2023.7557)*, Registrované v: WOS*

*2. [2.1] JOCIC, D. - STAJNER-PAPUGA, I. Distributivity of a Uni-nullnorm with Continuous and Archimedean Underlying T-norms and T-conorms Over an Arbitrary Uninorm. In MATHEMATICA SLOVACA. ISSN 0139-9918, DEC 1 2023, vol. 73, no. 6, p. 1527-1544. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0110*](https://doi.org/10.1515/ms-2023-0110)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA229 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Convex combinations of uninorms and triangular subnorms. In Fuzzy Sets and Systems, 2021, vol. 423, p. 55-73. (2020: 3.343 - IF, Q1 - JCR, 0.902 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2020.10.011> |

Citácie:

*1. [1.1] PAN, D. - ZHOU, H.J. - YAN, X.X. Characterizations for the migrativity of continuous t-conorms over fuzzy implications. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 30 2023, vol. 456, p. 173-196. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.04.006*](https://doi.org/10.1016/j.fss.2022.04.006)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA230 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Natural partial order induced by a commutative, associative and idempotent function. In Information Sciences, 2021, vol. 545, p. 499-512. (2020: 6.795 - IF, Q1 - JCR, 1.524 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2020.09.028> |

Citácie:

*1. [1.1] GUPTA, V.K. - JAYARAM, B. Clifford';s order obtained from uninorms on bounded lattices. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, JUN 30 2023, vol. 462, art. nr. 108384. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.08.016*](https://doi.org/10.1016/j.fss.2022.08.016)*, Registrované v: WOS*

*2. [1.1] QIN, F. - FU, L. A characterization of uninorms not internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, OCT 15 2023, vol. 469, art. nr. 108641. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108641*](https://doi.org/10.1016/j.fss.2023.108641)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA231 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of idempotent n-uninorms. In Fuzzy Sets and Systems, 2022, vol. 427, p. 1-22. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2020.12.019> |

Citácie:

*1. [1.1] GUPTA, V.K. - VEMURI, N.R. Generating methods of some classes of uninorms and associated structures. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, NOV 15 2023, vol. 471, art nr. 108685. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108685*](https://doi.org/10.1016/j.fss.2023.108685)*, Registrované v: WOS*

*2. [1.1] LIU, S.P. - QIN, F. Conditional distributivity of continuous triangular norms over 2-uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, APR 2023, vol. 20, no. 2, p. 69-82. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7557*](https://doi.org/10.22111/ijfs.2023.7557)*, Registrované v: WOS*

*3. [1.1] ÇAYLI, G.D. - MESIAR, R. Methods for obtaining uninorms on some special classes of bounded lattices. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 7, p. 111-126. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7660*](https://doi.org/10.22111/ijfs.2023.7660)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA232 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterizing Functions of n-Uninorms With Continuous Underlying Functions. In IEEE Transactions on Fuzzy Systems, 2022, vol. 30, no. 5, p. 1239-1247. (2021: 12.253 - IF, Q1 - JCR, 4.080 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1063-6706. Dostupné na: [https://doi.org/10.1109/TFUZZ.2021.3057231](https://doi.org/10.1109/tfuzz.2021.3057231) |

Citácie:

*1. [1.1] LIU, S. P. - QIN, F. Conditional distributivity of continuous triangular norms over 2-uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS, 2023, vol. 20, no. 2, pp. 69-82. ISSN 1735-0654. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7557*](https://doi.org/10.22111/ijfs.2023.7557)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA233 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of uninorms with continuous underlying T-norm and T-conorm by their set of discontinuity points. In IEEE Transactions on Fuzzy Systems, 2018, vol. 26, no. 2, p. 705-714. (2017: 8.415 - IF, Q1 - JCR, 4.024 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1063-6706. Dostupné na: [https://doi.org/10.1109/TFUZZ.2017.2688346](https://doi.org/10.1109/tfuzz.2017.2688346) |

Citácie:

*1. [1.1] JI, W. - XIE, J.J. Characterizations of Residual Implications Derived From Copulas. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, APR 2023, vol. 31, no. 4, p. 1409-1415. Dostupné na:* [*https://doi.org/10.1109/TFUZZ.2022.3197902*](https://doi.org/10.1109/tfuzz.2022.3197902)*, Registrované v: WOS*

*2. [1.1] QIN, F. - FU, L. A characterization of uninorms not internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, OCT 15 2023, vol. 469, art. nr. 108641. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108641*](https://doi.org/10.1016/j.fss.2023.108641)*, Registrované v: WOS*

*3. [1.1] ZHANG, Xin - QIN, Feng - BI, Han-Yu. The Conditional Distributivity for Uni-Nullnorms Over Uninorms. In INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, 2023, vol. 31, no. 02, pp. 253-281. ISSN 0218-4885. Dostupné na:* [*https://doi.org/10.1142/S0218488523500149*](https://doi.org/10.1142/s0218488523500149)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA234 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - KELLY, Stephen - AHMAD, Khurshid. Bonferroni mean with weighted interaction. In IEEE Transactions on Fuzzy Systems, 2018, vol. 26, no. 5, p. 3085-3096. (2017: 8.415 - IF, Q1 - JCR, 4.024 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1063-6706. Dostupné na: [https://doi.org/10.1109/TFUZZ.2018.2792475](https://doi.org/10.1109/tfuzz.2018.2792475) |

Citácie:

*1. [1.1] DU, W.S. Concise representations and limiting cases of q-rung orthopair fuzzy Hamacher-Bonferroni mean aggregations. In COMPUTATIONAL & APPLIED MATHEMATICS. ISSN 2238-3603, DEC 2023, vol. 42, no. 8, art. nr. 357. Dostupné na:* [*https://doi.org/10.1007/s40314-023-02493-6*](https://doi.org/10.1007/s40314-023-02493-6)*, Registrované v: WOS*

*2. [1.1] NJOCK, Pierre Guy Atangana - SHEN, Shui-Long - ZHOU, Annan. Characterisation of likelihood of gas hydrates occurrence in the South China Sea based on Bonferroni mean-based TOPSIS and fuzzy set theory. In GEOSCIENCE FRONTIERS, 2023, vol. 14, no. 2, art. nr. 101513. ISSN 1674-9871. Dostupné na:* [*https://doi.org/10.1016/j.gsf.2022.101513*](https://doi.org/10.1016/j.gsf.2022.101513)*, Registrované v: WOS*

*3. [1.1] YANG, Y. - YANG, F.F. - YI, G.D. - XIA, D.X. - LI, J.Y. Product online multidimensional ratings aggregation decision-making model based on group division and attribute interaction. In ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. ISSN 0952-1976, NOV 2023, vol. 126, A, art. nr. 106835. Dostupné na:* [*https://doi.org/10.1016/j.engappai.2023.106835*](https://doi.org/10.1016/j.engappai.2023.106835)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA235 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Uninorms continuous on [0, e[U-2]e, 1] (2). In Information Sciences, 2017, vol. 393, p. 130-143. (2016: 4.832 - IF, Q1 - JCR, 1.781 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2017.02.006> |

Citácie:

*1. [1.1] QIN, F. - FU, L. A characterization of uninorms not internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, OCT 15 2023, vol. 469, art. nr. 108641. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108641*](https://doi.org/10.1016/j.fss.2023.108641)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA236 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of uninorms with continuous underlying t-norm and t-conorm by means of the ordinal sum construction. In International Journal of Approximate Reasoning, 2017, vol. 83, p. 176-192. (2016: 2.845 - IF, Q2 - JCR, 1.275 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0888-613X. Dostupné na: <https://doi.org/10.1016/j.ijar.2017.01.007> |

Citácie:

*1. [1.1] QIN, F. - FU, L. A characterization of uninorms not internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, OCT 15 2023, vol. 469, art. nr. 108641. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108641*](https://doi.org/10.1016/j.fss.2023.108641)*, Registrované v: WOS*

*2. [1.1] WANG, C.Y. - WANG, P. - ZHANG, B. Distributivity for uninorms with noncontinuous underlying operators. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, JUN 30 2023, vol. 462, art. nr. 108403. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.009*](https://doi.org/10.1016/j.fss.2022.09.009)*, Registrované v: WOS*

*3. [2.1] JOCIC, D. - STAJNER-PAPUGA, I. Distributivity of a Uni-nullnorm with Continuous and Archimedean Underlying T-norms and T-conorms Over an Arbitrary Uninorm. In MATHEMATICA SLOVACA. ISSN 0139-9918, DEC 1 2023, vol. 73, no. 6, p. 1527-1544. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0110*](https://doi.org/10.1515/ms-2023-0110)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA237 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Ordinal sums of representable uninorms. In Fuzzy Sets and Systems, 2017, vol. 308, p. 42-53. (2016: 2.718 - IF, Q1 - JCR, 1.408 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2016.07.006> |

Citácie:

*1. [1.1] ÇAYLI, G.D. - MESIAR, R. Methods for obtaining uninorms on some special classes of bounded lattices. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 7, p. 111-126. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7660*](https://doi.org/10.22111/ijfs.2023.7660)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA238 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Continuous additive generators of continuous, conditionally cancellative triangular subnorms. In Information Sciences, 2016, vol. 339, p. 53-63. (2015: 3.364 - IF, Q1 - JCR, 1.960 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2015.12.016> |

Citácie:

*1. [1.1] LAI, H.L. - SUN, J. The construction of t-norms on product posets by distributive t-subnorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, SEP 15 2023, vol. 467, art. nr. 108567. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108567*](https://doi.org/10.1016/j.fss.2023.108567)*, Registrované v: WOS*

*2. [1.1] WANG, X.P. - LIANG, S.D. Additive generators of 2-uninorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, DEC 15 2023, vol. 473art. nr. 108721. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.108721*](https://doi.org/10.1016/j.fss.2023.108721)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA239 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. A note on decomposition of idempotent uninorms into an ordinal sum of singleton semigroups. In Fuzzy Sets and Systems, 2016, vol. 299, p. 140-145. (2015: 2.098 - IF, Q1 - JCR, 1.354 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2016.04.007> |

Citácie:

*1. [1.1] GU, S. - SU, Y. The g-sum of two posets and its application to construct idempotent uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, OCT 2023, vol. 20, no. 5, p. 165-169. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7833*](https://doi.org/10.22111/ijfs.2023.7833)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA240 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Ordinal sum construction for uninorms and generalized uninorms. In International Journal of Approximate Reasoning, 2016, vol. 76, p. 1-17. (2015: 2.696 - IF, Q1 - JCR, 1.795 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0888-613X. Dostupné na: <https://doi.org/10.1016/j.ijar.2016.04.007> |

Citácie:

*1. [1.1] LI, Z. - SU, Y. On linearly ordered index sets for ordinal sums in the sense of A. H. Clifford yielding uninorms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, APR 2023, vol. 20, no. 2, p. 161-166. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.7563*](https://doi.org/10.22111/ijfs.2023.7563)*, Registrované v: WOS*

*2. [1.1] WANG, Y.T. - HU, B.Q. On fuzzy Sheffer strokes: New results and the ordinal sums. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 30 2023, vol. 456, p. 144-172. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.006*](https://doi.org/10.1016/j.fss.2022.09.006)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA241 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Sensitivity analysis of fuzzy rule-based classification systems by means of the Lipschitz condition. In Soft Computing, 2016, vol. 20, no. 1, p. 103-113. (2015: 1.630 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-015-1744-z> |

Citácie:

*1. [1.1] CAO, Y. - ZHOU, Z.J. - TANG, S.W. - NING, P.Y. - CHEN, M.L. On the Robustness of Belief-Rule-Based Expert Systems. In IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS. ISSN 2168-2216, OCT 2023, vol. 53, no. 10, p. 6043-6055. Dostupné na:* [*https://doi.org/10.1109/TSMC.2023.3279286*](https://doi.org/10.1109/tsmc.2023.3279286)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA242 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, K. T-Norms in subtractive clustering and backpropagation. In International Journal of Intelligent Systems, 2010, vol. 25, no. 9, p. 909-924. (2009: 1.194 - IF, Q3 - JCR, 0.559 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0884-8173. Dostupné na: <https://doi.org/10.1002/int.20423> |

Citácie:

*1. [1.2] CARVALHO, Gabriela Letícia Ramos - JÚNIOR, Carlos Alberto Araújo - CANABRAVA, Emanuelly Magalhães - DE AZEVEDO, Alcinei Místico - ANGELO, Marcos Flávio Silveira Vasconcelos D. - COSENZA, Diogo Nepomuceno. ESTIMATING THE DIAMETER OF TREE USING THE NEURO-FUZZY INFERENCE SYSTEM AND ARTIFICIAL NEURAL NETWORKS FROM THE TOTAL HEIGHT VARIABLE. In Floresta, 2023-01-01, 53, 3, pp. 396-403. ISSN 00153826. Dostupné na:* [*https://doi.org/10.5380/rf.v53i3.86492*](https://doi.org/10.5380/rf.v53i3.86492)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA243 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong\*\*. Constant vorticity water flows in the modified equatiorial β-plane approximation. In Monatshefte für Mathematik, 2022, vol. 197, p. 517-527. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01571-3> |

Citácie:

*1. [1.1] GUAN, Y. - FENG, J.Z. An Exact Solution and Instability for Atmospheric Flow in the Modified β-Plane Approximation. In PURE AND APPLIED GEOPHYSICS. ISSN 0033-4553, 2023 AUG 23 2023. Dostupné na:* [*https://doi.org/10.1007/s00024-023-03327-6*](https://doi.org/10.1007/s00024-023-03327-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA244 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong\*\*. Exact solution and instability for geophysical edge waves. In Communications on Pure and Applied Analysis, 2022, vol. 21, no. 7, p. 2447-2461. (2021: 1.273 - IF, Q2 - JCR, 0.792 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1534-0392. Dostupné na: <https://doi.org/10.3934/cpaa.2022067> |

Citácie:

*1. [1.1] SU, D. - GAO, H.J. Pollard';s exact solution for nonhydrostatic geophysical internal waves with underlying currents in f-plane approximation. In PHYSICS OF FLUIDS. ISSN 1070-6631, JUL 2023, vol. 35, no. 7. Dostupné na:* [*https://doi.org/10.1063/5.0159600*](https://doi.org/10.1063/5.0159600)*, Registrované v: WOS*

*2. [1.1] SU, D. - LIU, H. Pollard';s exact solution and instability for geophysical internal waves. In PHYSICS OF FLUIDS. ISSN 1070-6631, FEB 2023, vol. 35, no. 2. Dostupné na:* [*https://doi.org/10.1063/5.0140293*](https://doi.org/10.1063/5.0140293)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA245 | MING, Hao - WANG, JinRong - FEČKAN, Michal\*\*. The application of fractional calculus in chinese economic growth models. In Mathematics, 2019, vol. 7, no. 8. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math7080665> |

Citácie:

*1. [1.1] BROCIEK, R. - WAJDA, A. - SLLOTA, D. Comparison of Heuristic Algorithms in Identification of Parameters of Anomalous Diffusion Model Based on Measurements from Sensors. In SENSORS. FEB 2023, vol. 23, no. 3. Dostupné na:* [*https://doi.org/10.3390/s23031722*](https://doi.org/10.3390/s23031722)*, Registrované v: WOS*

*2. [1.2] ASKARI, Maysam. Numerical solution of fractional Bagley–Torvik equations using Lucas polynomials. In Iranian Journal of Numerical Analysis and Optimization, 2023-12-01, 13, 4, pp. 695-710. ISSN 24236977. Dostupné na:* [*https://doi.org/10.22067/ijnao.2023.81548.1230*](https://doi.org/10.22067/ijnao.2023.81548.1230)*, Registrované v: SCOPUS*

*3. [1.2] QIU, Hongling - LIU, Heng - ZHANG, Xiulan. Historical Data-Driven Composite Learning Adaptive Fuzzy Control of Fractional-Order Nonlinear Systems. In International Journal of Fuzzy Systems, 2023-04-01, 25, 3, pp. 1156-1170. ISSN 15622479. Dostupné na:* [*https://doi.org/10.1007/s40815-022-01430-9*](https://doi.org/10.1007/s40815-022-01430-9)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA246 | NEGGERS, J. - DVUREČENSKIJ, Anatolij - HEE SIK KIM. On d-fuzzy functions in d-algebras. In Foundations of Physics, 2000, vol. 30, p. 1807-1816. ISSN 0015-9018. |

Citácie:

*1. [1.2] DAS, Rakhal - DAS, Suman - GRANADOS, Carlos - HASAN, Ali Khalid. Neutrosophic d-Filter of d-Algebra. In Iraqi Journal of Science, 2023-01-01, 64, 2, pp. 855-864. ISSN 00672904. Dostupné na:* [*https://doi.org/10.24996/ijs.2023.64.2.31*](https://doi.org/10.24996/ijs.2023.64.2.31)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA247 | PASEKA, J. - PULMANNOVÁ, Sylvia - RIEČANOVÁ, Z. Properties of quasi-hermitian operators inherited from self-adjoint operators. In International Journal of Theoretical Physics, 2013, vol. 52, s. 1994-2000. (2012: 1.086 - IF, Q3 - JCR, 0.462 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-012-1403-4> |

Citácie:

*1. [1.1] ALASE, A. - KARUVADE, S. - SCANDOLO, C.M. Reply to the Comment on ';The operational foundations of PT-symmetric and quasi-Hermitian quantum theory';. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, MAY 19 2023, vol. 56, no. 20. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acca54*](https://doi.org/10.1088/1751-8121/acca54)*, Registrované v: WOS*

*2. [1.1] ZNOJIL, M. Comment on ';The operational foundations of PT-symmetric and quasi-Hermitian quantum theory';. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, JAN 20 2023, vol. 56, no. 3. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acb518*](https://doi.org/10.1088/1751-8121/acb518)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA248 | PLÁVALA, Martin - ZIMAN, Mário. Popescu-Rohrlich box implementation in general probabilistic theory of processes. In Physics Letters A. General Atomic and Solid State Physics, 2020, vol. 384, no. 16, art. no. 126323. (2019: 2.278 - IF, Q2 - JCR, 0.513 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2020.126323> |

Citácie:

*1. [1.1] ARAI, Hayato - HAYASHI, Masahito. Pseudo standard entanglement structure cannot be distinguished from standard entanglement structure. In NEW JOURNAL OF PHYSICS, 2023, vol. 25, no. 2, pp. ISSN 1367-2630. Dostupné na:* [*https://doi.org/10.1088/1367-2630/acb565*](https://doi.org/10.1088/1367-2630/acb565)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA249 | PLÁVALA, Martin. Conditions for the compatibility of channels in general probabilistic theory and their connection to steering and Bell nonlocality. In Physical Review A, 2017, vol. 96, no. 5, art. no. 052127, p. [1-17]. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947. Dostupné na: [https://doi.org/10.1103/PhysRevA.96.052127](https://doi.org/10.1103/physreva.96.052127) |

Citácie:

*1. [1.1] GüHNE, O. - HAAPASALO, E. - KRAFT, T. - PELLONPää, J.P. - UOLA, R. Colloquium: Incompatible measurements in quantum information science. In REVIEWS OF MODERN PHYSICS. ISSN 0034-6861, FEB 6 2023, vol. 95, no. 1. Dostupné na:* [*https://doi.org/10.1103/RevModPhys.95.011003*](https://doi.org/10.1103/revmodphys.95.011003)*, Registrované v: WOS*

*2. [1.1] MITRA, A. - FARKAS, M. Characterizing and quantifying the incompatibility of quantum instruments. In PHYSICAL REVIEW A. ISSN 2469-9926, MAR 24 2023, vol. 107, no. 3. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.032217*](https://doi.org/10.1103/physreva.107.032217)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA250 | PÓCS, Jozef - PÓCSOVÁ, Jana. On Bonds for Generalized One-Sided Concept Lattices. In Mathematics, 2021, vol. 9, no. 3, art. no. 211, p. 1-12. (2020: 2.258 - IF, Q1 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math9030211> |

Citácie:

*1. [1.1] KRIDLO, Ondrej - LOPEZ-RODRIGUEZ, Domingo - ANTONI, Lubomir - ELIAS, Peter - KRAJCI, Stanislav - OJEDA-ACIEGO, Manuel. Connecting concept lattices with bonds induced by external information. In INFORMATION SCIENCES, 2023, vol. 648, art. nr. 119498. ISSN 0020-0255. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119498*](https://doi.org/10.1016/j.ins.2023.119498)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA251 | POSPÍŠIL, Michal. Representation and stability of solutions of systems of functional differential equations with multiple delays. In Electronic Journal of Qualitative Theory of Differential Equations, 2012, no. 54, p. 1-30. (2011: 0.557 - IF, Q3 - JCR, 0.842 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1417-3875. |

Citácie:

*1. [1.1] ZHOU, Airen. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS, 2023, vol. 12, no. 10, art. nr. 994. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

*2. [1.2] O'REGAN, Donal - ADERYANI, Safoura Rezaei - SAADATI, Reza - LI, Chenkuan. Stability Results and Parametric Delayed Mittag–Leffler Matrices in Symmetric Fuzzy–Random Spaces with Application. In Symmetry, 2023-10-01, 15, 10, pp. Dostupné na:* [*https://doi.org/10.3390/sym15101880*](https://doi.org/10.3390/sym15101880)*, Registrované v: SCOPUS*

*3. [1.2] POLYANIN, Andrei D. - SOROKIN, Vsevolod G. - ZHUROV, Alexei I. Delay Ordinary and Partial Differential Equations. In Delay Ordinary and Partial Differential Equations, 2023-01-01, pp. 1-415. Dostupné na:* [*https://doi.org/10.1201/9781003042310*](https://doi.org/10.1201/9781003042310)*, Registrované v: SCOPUS*

*4. [1.2] POLYANIN, Andrei D. - SOROKIN, Vsevolod G. - ZHUROV, Alexei I. Delay Ordinary and Partial Differential Equations. In Delay Ordinary and Partial Differential Equations, 2023-01-01, pp. 1-415. Dostupné na:* [*https://doi.org/10.1201/9781003042310*](https://doi.org/10.1201/9781003042310)*, Registrované v: SCOPUS*

*5. [1.2] ZHOU, Airen - WANG, Jinrong. Relative controllability of conformable delay differential systems with linear parts defined by permutable matrices. In Filomat, 2023-01-01, 37, 9, pp. 2659-2673. ISSN 03545180. Dostupné na:* [*https://doi.org/10.2298/FIL2309659Z*](https://doi.org/10.2298/fil2309659z)*, Registrované v: SCOPUS*

*6. [3.1] BARDE, A. - JAFAR, A.B. - MADAKI, A.G. Representation and stability of solutions for systems of delay differential equations with multiple constant delays. In Bima Journal of Science and Technology, 2023, Vol. 7, no. 3, p. 118-130, DOI: 10.56892/bima.v7i3.493.*

*7. [3.1] WANG, J.R. - FEČKAN, M. - LI, M. Stability and Controls Analysis for Delay Systems. Academic Press, 2023. DOI 9780323997928.*

|  |  |
| --- | --- |
| ADCA252 | POSPÍŠIL, Michal. Relative controllability of neutral differential equations with a delay. In SIAM Journal on Control and Optimization, 2017, vol. 55, no. 2, p. 835-855. (2016: 1.450 - IF, Q1 - JCR, 1.543 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0363-0129. Dostupné na: [https://doi.org/10.1137/15M1024287](https://doi.org/10.1137/15m1024287) |

Citácie:

*1. [1.1] FU, T. - KOU, K.I. - WANG, J.R. RELATIVE CONTROLLABILITY OF QUATERNION DIFFERENTIAL EQUATIONS WITH DELAY. In SIAM JOURNAL ON CONTROL AND OPTIMIZATION. ISSN 0363-0129, 2023, vol. 61, no. 5, p. 2927-2952. Dostupné na:* [*https://doi.org/10.1137/23M1544684*](https://doi.org/10.1137/23m1544684)*, Registrované v: WOS*

*2. [1.1] JIN, X.H. - FECKAN, M. - WANG, J.R. Relative Controllability of Impulsive Linear Discrete Delay Systems. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, DEC 2023, vol. 22, no. 4. Dostupné na:* [*https://doi.org/10.1007/s12346-023-00831-x*](https://doi.org/10.1007/s12346-023-00831-x)*, Registrované v: WOS*

*3. [1.1] LI, M.M. - FECKAN, M. - WANG, J.R. FINITE TIME STABILITY AND RELATIVE CONTROLLABILITYOF SECOND ORDER LINEAR DIFFERENTIAL SYSTEMSWITH PURE DELAY. In APPLICATIONS OF MATHEMATICS. ISSN 0862-7940, JUN 2023, vol. 68, no. 3, p. 305-327. Dostupné na:* [*https://doi.org/10.21136/AM.2022.0249-21*](https://doi.org/10.21136/am.2022.0249-21)*, Registrované v: WOS*

*4. [1.1] LI, M.M. - FECKAN, M. - WANG, J.R. Representation and finite time stability of solution and relative controllability of conformable type oscillating systems. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, MAR 15 2023, vol. 46, no. 4, p. 3966-3982. Dostupné na:* [*https://doi.org/10.1002/mma.8733*](https://doi.org/10.1002/mma.8733)*, Registrované v: WOS*

*5. [1.1] MUTHUVEL, K. - SAWANGTONG, P. - KALIRAJ, K. A Note on the Connection between Non-Additive Entropy and h-Derivative. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: WOS*

*6. [1.2] MUTHUVEL, Kothandapani - SAWANGTONG, Panumart - KALIRAJ, Kalimuthu. Relative Controllability of ψ-Caputo Fractional Neutral Delay Differential System. In Fractal and Fractional, 2023-06-01, 7, 6, art. nr. 437, 16 p. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: SCOPUS*

*7. [3.1] WANG, J. R. - FEČKAN, M. - LI, M. Stability and Controls Analysis for Delay Systems. Academic Press, 2023, ISBN 9780323997928.*

|  |  |
| --- | --- |
| ADCA253 | POSPÍŠIL, Michal - JAROŠ, František. On the representation of solutions of delayed differential equations via Laplace transform. In Electronic Journal of Qualitative Theory of Differential Equations, 2016, no. 117, p. 1-13. (2015: 0.732 - IF, Q2 - JCR, 0.602 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2016.1.117> |

Citácie:

*1. [1.1] CASTRO, M.A. - MAYORGA, C.J. - SIRVENT, A. - RODRíGUEZ, F. Exact numerical solutions and high order nonstandard difference schemes for a second order delay differential equation. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, NOV 30 2023, vol. 46, no. 17, p. 17962-17979. Dostupné na:* [*https://doi.org/10.1002/mma.9540*](https://doi.org/10.1002/mma.9540)*, Registrované v: WOS*

*2. [1.1] LIANG, Y.X. - SHI, Y. - FAN, Z.B. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, FEB 2023, vol. 26, no. 1, p. 439-460. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: WOS*

*3. [3.1] BARDE, A. - JAFAR, A.B. - MADAKI, A.G. Representation and stability of solutions for systems of delay differential equations with multiple constant delays. In Bima Journal of Science and Technology, 2023, Vol. 7, no. 3, p. 118-130, DOI: 10.56892/bima.v7i3.493.*

|  |  |
| --- | --- |
| ADCA254 | POSPÍŠIL, Michal - MEDVEĎ, Milan - ŠKRIPKOVÁ, Lucia. Stability and the nonexistence of blowing-up solutions of nonlinear delay systems with linear parts defined by permutable matrices. In Nonlinear Analysis: Theory, Methods & Applications, 2011, vol. 74, no. 12, p. 3903-3911. (2010: 1.279 - IF, Q1 - JCR, 1.273 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0362-546X. Dostupné na: <https://doi.org/10.1016/j.na.2011.02.026> |

Citácie:

*1. [1.1] LI, Mengmeng - FECKAN, Michal - WANG, JinRong. Representation and finite time stability of solution and relative controllability of conformable type oscillating systems. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 2023, vol. 46, no. 4, pp. 3966-3982. ISSN 0170-4214. Dostupné na:* [*https://doi.org/10.1002/mma.8733*](https://doi.org/10.1002/mma.8733)*, Registrované v: WOS*

*2. [1.1] ZHOU, A.R. - WANG, J.R. Relative controllability of conformable delay differential systems with linear parts defined by permutable matrices. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 9, p. 2659-2673. Dostupné na:* [*https://doi.org/10.2298/FIL2309659Z*](https://doi.org/10.2298/fil2309659z)*, Registrované v: WOS*

*3. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

*4. [3.1] WANG, J.R. - FEČKAN, M. - LI, M. Stability and Controls Analysis for Delay Systems. Academic Press. 2023, ISBN 9780323997928.*

|  |  |
| --- | --- |
| ADCA255 | POSPÍŠIL, Michal - MEDVEĎ, Milan. Sufficient conditions for the asymptotic stability of nonlinear multidelay differential equations with linear parts defined by pairwise permutable matrices. In Nonlinear Analysis: Theory, Methods & Applications, 2012, vol. 75, no. 7, p. 3348-3363. (2011: 1.536 - IF, Q1 - JCR, 1.832 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0362-546X. Dostupné na: <https://doi.org/10.1016/j.na.2011.12.031> |

Citácie:

*1. [1.1] JIN, X.H. - FECKAN, M. - WANG, J.R. Relative Controllability of Impulsive Linear Discrete Delay Systems. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, DEC 2023, vol. 22, no. 4. Dostupné na:* [*https://doi.org/10.1007/s12346-023-00831-x*](https://doi.org/10.1007/s12346-023-00831-x)*, Registrované v: WOS*

*2. [1.1] LI, M.M. - FECKAN, M. - WANG, J.R. Representation and finite time stability of solution and relative controllability of conformable type oscillating systems. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, MAR 15 2023, vol. 46, no. 4, p. 3966-3982. Dostupné na:* [*https://doi.org/10.1002/mma.8733*](https://doi.org/10.1002/mma.8733)*, Registrované v: WOS*

*3. [1.1] LIANG, Y.X. - SHI, Y. - FAN, Z.B. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, FEB 2023, vol. 26, no. 1, p. 439-460. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: WOS*

*4. [1.1] ZHOU, A.R. - WANG, J.R. Relative controllability of conformable delay differential systems with linear parts defined by permutable matrices. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 9, p. 2659-2673. Dostupné na:* [*https://doi.org/10.2298/FIL2309659Z*](https://doi.org/10.2298/fil2309659z)*, Registrované v: WOS*

*5. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

*6. [3.1] BARANOVSKA, L. Method of Upper and Lower Resolving Functions for Pursuit Differential-difference Games with Pure Delay. In Recent Developments   
  
in Automatic Control Systems, River Publishers, 2023, p. 131-143, ISBN 9781003339229.*

*7. [3.1] BARDE, A. - JAFAR, A.B. - MADAKI, G. Representation and stability of solutions for systems of delay differential equations with multiple constant delays. In Bima Journal of Science and Technology, 2023, Vol. 7, no. 3, p. 118-130, DOI: 10.56892/bima.v7i3.493.*

*8. [3.1] WANG, J.R. - FEČKAN, M. - LI, M. Stability and Controls Analysis for Delay Systems. Academic Press. 2023. ISBN 9780323997928.*

|  |  |
| --- | --- |
| ADCA256 | PULMANNOVÁ, Sylvia. Tensor product of quantum logics. In Journal of Mathematical Physics, 1985, vol. 26, p. 1-5. ISSN 0022-2488. |

Citácie:

*1. [1.1] ZHONG, S.Y. Quantum Entanglement: An Analysis via the Orthogonality Relation. In FOUNDATIONS OF PHYSICS. ISSN 0015-9018, AUG 2023, vol. 53, no. 4. Dostupné na:* [*https://doi.org/10.1007/s10701-023-00710-0*](https://doi.org/10.1007/s10701-023-00710-0)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA257 | REN, Lulu - WANG, JinRong - FEČKAN, Michal. Asymptotically periodic solutions for caputo type fractional evolution equations. In Fractional Calculus and Applied Analysis, 2018, vol. 21, no. 5, p. 1294-1312. (2017: 2.865 - IF, Q1 - JCR, 1.967 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1311-0454. Dostupné na: <https://doi.org/10.1515/fca-2018-0068> |

Citácie:

*1. [1.1] ALSHEEKHHUSSAIN, Z. - IBRAHIM, A.G. - RAMADAN, R.A. Existence of S -asymptotically ω-periodic solutions for non-instantaneous impulsive semilinear di fferential equations and inclusions of fractional order 1 < α < 2. In AIMS MATHEMATICS. 2023, vol. 8, no. 1, p. 76-101. Dostupné na:* [*https://doi.org/10.3934/math.2023004*](https://doi.org/10.3934/math.2023004)*, Registrované v: WOS*

*2. [1.1] GOU, H.D. - JIA, Y.W. A study on mild solutions for multi-term time fractional measure differential equations. In INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS. ISSN 0020-7160, SEP 2 2023, vol. 100, no. 9, p. 1896-1917. Dostupné na:* [*https://doi.org/10.1080/00207160.2023.2239943*](https://doi.org/10.1080/00207160.2023.2239943)*, Registrované v: WOS*

*3. [1.1] GOU, H.D. A study on S-asymptotically ω-periodic positive mild solutions for damped elastic systems. In BULLETIN DES SCIENCES MATHEMATIQUES. ISSN 0007-4497, OCT 2023, vol. 187. Dostupné na:* [*https://doi.org/10.1016/j.bulsci.2023.103292*](https://doi.org/10.1016/j.bulsci.2023.103292)*, Registrované v: WOS*

*4. [1.1] GOU, H.D. Monotone iterative technique for evolution equations with delay and nonlocal conditions in ordered Banach space. In STOCHASTICS-AN INTERNATIONAL JOURNAL OF PROBABILITY AND STOCHASTIC PROCESSES. ISSN 1744-2508, 2023 NOV 11 2023. Dostupné na:* [*https://doi.org/10.1080/17442508.2023.2280693*](https://doi.org/10.1080/17442508.2023.2280693)*, Registrované v: WOS*

*5. [1.1] GOU, H.D. ON THE S-ASYMPTOTICALLY ω-PERIODIC MILD SOLUTIONS FOR MULTI-TERM TIME FRACTIONAL MEASURE DIFFERENTIAL EQUATIONS. In TOPOLOGICAL METHODS IN NONLINEAR ANALYSIS. ISSN 1230-3429, DEC 2023, vol. 62, no. 2, p. 569-590. Dostupné na:* [*https://doi.org/10.12775/TMNA.2023.015*](https://doi.org/10.12775/tmna.2023.015)*, Registrované v: WOS*

*6. [1.1] LASTRA, A. - MICHALIK, S. - SUWINSKA, M. Multisummability of Formal Solutions for a Family of Generalized Singularly Perturbed Moment Differential Equations. In RESULTS IN MATHEMATICS. ISSN 1422-6383, APR 2023, vol. 78, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01828-9*](https://doi.org/10.1007/s00025-022-01828-9)*, Registrované v: WOS*

*7. [1.1] LI, Q. - LIU, L.S. - WU, X. Existence and global asymptotic behavior of S-asymptotically periodic solutions for fractional evolution equation with delay. In NONLINEAR ANALYSIS-MODELLING AND CONTROL. ISSN 1392-5113, 2023, vol. 28, no. 5, p. 906-931. Dostupné na:* [*https://doi.org/10.15388/namc.2023.28.32643*](https://doi.org/10.15388/namc.2023.28.32643)*, Registrované v: WOS*

*8. [1.1] LI, Q. - WU, X. Existence and asymptotic behavior of square-mean S-asymptotically periodic solutions for fractional stochastic evolution equation with delay. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, APR 2023, vol. 26, no. 2, p. 718-750. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00130-x*](https://doi.org/10.1007/s13540-023-00130-x)*, Registrované v: WOS*

*9. [1.1] REN, J. - BAI, L. - ZHAI, C.B. A DECREASING OPERATOR METHOD FOR A FRACTIONAL INITIAL VALUE PROBLEM ON INFINITE INTERVAL. In JOURNAL OF NONLINEAR FUNCTIONAL ANALYSIS. 2023, vol. 2023. Dostupné na:* [*https://doi.org/10.23952/jnfa.2023.35*](https://doi.org/10.23952/jnfa.2023.35)*, Registrované v: WOS*

*10. [1.1] VAN ANH, N.T. ASYMPTOTICALLY PERIODIC SOLUTIONS FOR FRACTIONAL DIFFERENTIAL VARIATIONAL INEQUALITIES. In FIXED POINT THEORY. ISSN 1583-5022, 2023, vol. 24, no. 2, p. 459-486. Dostupné na:* [*https://doi.org/10.24193/fpt-ro.2023.2.02*](https://doi.org/10.24193/fpt-ro.2023.2.02)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA258 | RIEČAN, Beloslav. Kolmogorov-Sinaj entropy on MV-algebras. In International Journal of Theoretical Physics, 2005, vol. 44, no. 7, p. 1041-1052. ISSN 0020-7748. |

Citácie:

*1. [1.1] RAM, G. - KUMAR, S. Coding Theorem Based on λ-Norm Entropy for Partitions in Product MV-Algebras. In JOURNAL OF MATHEMATICAL EXTENSION. ISSN 1735-8299, 2023, vol. 17, no. 6. Dostupné na:* [*https://doi.org/10.30495/JME.2023.2319*](https://doi.org/10.30495/jme.2023.2319)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA259 | RIEČAN, Beloslav - MARKECHOVA, D. The entropy of fuzzy dynamical systems, general scheme and generators. In Fuzzy Sets and Systems, 1998, vol. 96, no. 2, p. 191-199. ISSN 0165-0114. |

Citácie:

*1. [1.1] AFSAN, B. M. Uzzal. WEAKLY FUZZY TOPOLOGICAL ENTROPY. In MATHEMATICA BOHEMICA, 2022, vol. 147, no. 2, pp. 221-236. ISSN 0862-7959. Dostupné na:* [*https://doi.org/10.21136/MB.2021.0073-20*](https://doi.org/10.21136/mb.2021.0073-20)*, Registrované v: WOS*

*2. [1.1] GU, Lijuan - LI, Zhiming. Metric entropy of capacity preserving dynamical systems. In FUZZY SETS AND SYSTEMS, 2023, vol. 457, no., pp. 66-79. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.04.023*](https://doi.org/10.1016/j.fss.2022.04.023)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA260 | SATHIYARAJ, T. - FEČKAN, Michal - WANG, JinRong. Null controllability results for stochastic delay systems with delayed perturbation of matrices. In Chaos, Solitons and Fractals, 2020, vol. 138, 109927, p. 1-11. (2019: 3.764 - IF, Q1 - JCR, 1.036 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0960-0779. Dostupné na: <https://doi.org/10.1016/j.chaos.2020.109927> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. Existence and controllability for conformable fractional stochastic differential equations with infinite delay via measures of noncompactness. In CHAOS. ISSN 1054-1500, JAN 2023, vol. 33, no. 1. Dostupné na:* [*https://doi.org/10.1063/5.0125651*](https://doi.org/10.1063/5.0125651)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability for higher-order fractional stochastic delay differential equations. In INFORMATION   
  
SCIENCES. ISSN 0020-0255, NOV 2023, vol. 648. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119631*](https://doi.org/10.1016/j.ins.2023.119631)*, Registrované v: WOS*

*4. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*5. [1.2] DASTAVIZ, Abbas - BINAZADEH, Tahereh. Simultaneous stabilization of nonlinear systems with different and multiple time-varying delays. In Asian Journal of Control, 2023-07-01, 25, 4, pp. 2908-2917. ISSN 15618625. Dostupné na:* [*https://doi.org/10.1002/asjc.2989*](https://doi.org/10.1002/asjc.2989)*, Registrované v: SCOPUS*

*6. [1.2] DINESHKUMAR, Chendrayan - VIJAYAKUMAR, Velusamy - UDHAYAKUMAR, Ramalingam - SHUKLA, Anurag - NISAR, Kottakkaran Sooppy. Controllability discussion for fractional stochastic Volterra-Fredholm integro-differential systems of order 1 &lt; r &lt; 2. In International Journal of Nonlinear Sciences and Numerical Simulation, 2023-08-01, 24, 5, pp. 1947-1979. ISSN 15651339. Dostupné na:* [*https://doi.org/10.1515/ijnsns-2021-0479*](https://doi.org/10.1515/ijnsns-2021-0479)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA261 | SATHIYARAJ, T. - FEČKAN, Michal - WANG, JinRong\*\*. Synchronization of Fractional Stochastic Chaotic Systems via Mittag-Leffler Function. In Fractal and Fractional, 2022, vol. 6, art. no. 192. (2021: 3.577 - IF, Q1 - JCR, 0.644 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract6040192> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*2. [1.1] PRIYADHARSINI, J. - SEENIVASAN, V. - SENTHILKUMAR, P. Stability result for fractional fuzzy neutral integro-differential equations. In JOURNAL OF ANALYSIS. ISSN 0971-3611, SEP 2023, vol. 31, no. 3, p. 1617-1637. Dostupné na:* [*https://doi.org/10.1007/s41478-022-00497-9*](https://doi.org/10.1007/s41478-022-00497-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA262 | SI, Yuanchao - FEČKAN, Michal - WANG, JinRong\*\* - O';REGAN, D. Relative controllability of delay multi-agent systems. In International Journal of Robust and Nonlinear Contro, 2021, vol. 31, p. 4965-4993. (2020: 4.406 - IF, Q1 - JCR, 1.361 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1049-8923. Dostupné na: <https://doi.org/10.1002/rnc.5517> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*2. [1.1] KUMAR, V. - DJEMAI, M. Existence, stability and controllability of piecewise impulsive dynamic systems on arbitrary time domain. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, MAY 2023, vol. 117, p. 529-548. Dostupné na:* [*https://doi.org/10.1016/j.apm.2022.12.027*](https://doi.org/10.1016/j.apm.2022.12.027)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA263 | SI, Yuanchao - WANG, JinRong\*\* - FEČKAN, Michal. Controllability of linear and nonlinear systems governed by Stieltjes differential equations. In Applied Mathematics and Computation, 2020, vol. 376, p. 1-24. (2019: 3.472 - IF,   Q1 - JCR, 0.969 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0096-3003. Dostupné na: <https://doi.org/10.1016/j.amc.2020.125139> |

Citácie:

*1. [1.1] DHAYAL, R. - ZHU, Q.X. Stability and controllability results of yi-Hilfer fractional integro-differential under the influence of impulses. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAR 2023, vol. 168. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113105*](https://doi.org/10.1016/j.chaos.2023.113105)*, Registrované v: WOS*

*2. [1.1] DILNA, N. - LESHCHUK, S. D-stability of the model of the Stieltjes string. In APPLICABLE ANALYSIS. ISSN 0003-6811, DEC 12 2023, vol. 102, no. 18, p. 5157-5169. Dostupné na:* [*https://doi.org/10.1080/00036811.2023.2168654*](https://doi.org/10.1080/00036811.2023.2168654)*, Registrované v: WOS*

*3. [1.1] KUMAR, V. - DJEMAI, M. Existence, stability and controllability of piecewise impulsive dynamic systems on arbitrary time domain. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, MAY 2023, vol. 117, p. 529-548. Dostupné na:* [*https://doi.org/10.1016/j.apm.2022.12.027*](https://doi.org/10.1016/j.apm.2022.12.027)*, Registrované v: WOS*

*4. [1.1] YUAN, X.L. - ZHOU, Y.S. The fastest stabilization of second-order switched systems with all modes unstable via an optimal state-dependent switching rule revisited. In APPLIED MATHEMATICS AND COMPUTATION. ISSN 0096-3003, NOV 15 2023, vol. 457. Dostupné na:* [*https://doi.org/10.1016/j.amc.2023.128195*](https://doi.org/10.1016/j.amc.2023.128195)*, Registrované v: WOS*

*5. [1.1] ZHENG, J.C. - YANG, Y.L. M-WDRNNs: Mixed-Weighted Deep Residual Neural Networks for Forward and Inverse PDE Problems. In AXIOMS. AUG 2023, vol. 12, no. 8. Dostupné na:* [*https://doi.org/10.3390/axioms12080750*](https://doi.org/10.3390/axioms12080750)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA264 | STRAUCH, Oto - TÓTH, J.T. Asymptotic density of A subset of N and density of the ratio set R(A). In Acta Arithmetica, 1998, vol. 87, no. 1, p. 67-78. ISSN 0065-1036. |

Citácie:

*1. [1.1] MISKA, P. - TóTH, J.T. Characteristics of Distributions of Sets and Their (R)- and (N)-Denseness. In RESULTS IN MATHEMATICS. ISSN 1422-6383, APR 2023, vol. 78, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01830-1*](https://doi.org/10.1007/s00025-022-01830-1)*, Registrované v: WOS*

*2. [1.2] ANTONY, Deepa - BARMAN, Rupam - MISKA, Piotr. p-adic quotient sets: diagonal forms. In Archiv der Mathematik, 2022-11-01, 119, 5, pp. 461-470. ISSN 0003889X. Dostupné na:* [*https://doi.org/10.1007/s00013-022-01785-3*](https://doi.org/10.1007/s00013-022-01785-3)*, Registrované v: SCOPUS*

*3. [1.2] ANTONY, Deepa - BARMAN, Rupam. P-Adic quotient sets: Linear recurrence sequences. In Bulletin of the Australian Mathematical Society, 2023-08-05, 108, 1, pp. 19-28. ISSN 00049727. Dostupné na:* [*https://doi.org/10.1017/S0004972722001563*](https://doi.org/10.1017/s0004972722001563)*, Registrované v: SCOPUS*

*4. [1.2] ANTONY, Deepa - BARMAN, Rupam. p-adic quotient sets: cubic forms. In Archiv der Mathematik, 2022-02-01, 118, 2, pp. 143-149. ISSN 0003889X. Dostupné na:* [*https://doi.org/10.1007/s00013-021-01689-8*](https://doi.org/10.1007/s00013-021-01689-8)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA265 | SUO, Leping\*\* - FEČKAN, Michal\* - WANG, JinRong\*. Controllability and observability for linear quaternion-valued impulsive differential equations. In Communications in nonlinear science and numerical simulation, 2023, vol. 124, art. no. 107276. (2022: 3.9 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR). ISSN 1007-5704. Dostupné na: <https://doi.org/10.1016/j.cnsns.2023.107276> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.2] BAU, Muhammad Afdal - BAHRI, Mawardi - BACHTIAR, Nasrullah - BUSRAH, St Nurhilmah - NUR, Muh. One-dimensional quaternion Laplace transform: Properties and its application to quaternion-valued differential equations. In Partial Differential Equations in Applied Mathematics, 2023-12-01, 8, pp. Dostupné na:* [*https://doi.org/10.1016/j.padiff.2023.100547*](https://doi.org/10.1016/j.padiff.2023.100547)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA266 | ŠUCH, Ondrej\*\* - KLIMO, Martin - KEMP, N.T. - ŠKVAREK, Ondrej. Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259. (2017: 2.115 - IF, Q2 - JCR, 0.420 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1434-8411. Dostupné na: <https://doi.org/10.1016/j.aeue.2018.09.025> |

Citácie:

*1. [1.1] BURTON, Harry - BOUILLARD, Jean-Sebastien - KEMP, Neil. Memristor-based LSTM neuromorphic circuits for offshore wind turbine blade fault detection. In 2023 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, ISCAS, 2023, vol., no., pp. ISSN 0271-4302. Dostupné na:* [*https://doi.org/10.1109/ISCAS46773.2023.10181552*](https://doi.org/10.1109/iscas46773.2023.10181552)*, Registrované v: WOS*

*2. [1.1] HOU, B. - HU, X.K. - GUO, Y.T. - MA, J. Energy flow and stochastic resonance in a memristive neuron. In PHYSICA SCRIPTA. ISSN 0031-8949, OCT 1 2023, vol. 98, no. 10. Dostupné na:* [*https://doi.org/10.1088/1402-4896/acf89a*](https://doi.org/10.1088/1402-4896/acf89a)*, Registrované v: WOS*

*3. [1.1] JAAFAR, A.H. - GEE, A. - KEMP, N.T. Printed and flexible organic and inorganic memristor devices for non-volatile memory applications. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, DEC 14 2023, vol. 56, no. 50. Dostupné na:* [*https://doi.org/10.1088/1361-6463/acfaaa*](https://doi.org/10.1088/1361-6463/acfaaa)*, Registrované v: WOS*

*4. [1.1] JAAFAR, A.H. - LOWE, C. - GEE, A. - KEMP, N.T. Optoelectronic Switching Memory Based on ZnO Nanoparticle/Polymer Nanocomposites. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, APR 14 2023, vol. 5, no. 4, p. 2367-2373. Dostupné na:* [*https://doi.org/10.1021/acsapm.2c02034*](https://doi.org/10.1021/acsapm.2c02034)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA267 | WANG, J. - ZHOU, Y. - FEČKAN, Michal. Nonlinear impulsive problems for fractional differential equations and Ulam stability. In Computers & Mathematics with Applications, 2012, vol. 64, no. 10, p. 3389-3405. (2011: 1.747 - IF, Q1 - JCR, 1.162 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0898-1221. Dostupné na: <https://doi.org/10.1016/j.camwa.2012.02.021> |

Citácie:

*1. [1.1] AGARWAL, R.P. - HRISTOVA, S. - O';REGAN, D. Boundary Value Problems for Fractional Differential Equations of Caputo Type and Ulam Type Stability: Basic Concepts and Study. In AXIOMS. MAR 2023, vol. 12, no. 3. Dostupné na:* [*https://doi.org/10.3390/axioms12030226*](https://doi.org/10.3390/axioms12030226)*, Registrované v: WOS*

*2. [1.1] DEVELI, F. - DUMAN, O. Existence and stability analysis of solution for fractional delay differential equations. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 6, p. 1869-1878. Dostupné na:* [*https://doi.org/10.2298/FIL2306869D*](https://doi.org/10.2298/fil2306869d)*, Registrované v: WOS*

*3. [1.1] KHARADE, J.P. - KUCCHE, K.D. On the (k, ?)-Hilfer nonlinear impulsive fractional differential equations. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, OCT 2023, vol. 46, no. 15, SI, p. 16282-16304. Dostupné na:* [*https://doi.org/10.1002/mma.9450*](https://doi.org/10.1002/mma.9450)*, Registrované v: WOS*

*4. [1.1] MOUMEN, A. - BOULARES, H. - ALRAQAD, T. - SABER, H. - ALI, E.E. Newly existence of solutions for pantograph a semipositone in W-Caputo sense. In AIMS MATHEMATICS. 2023, vol. 8, no. 6, p. 12830-12840. Dostupné na:* [*https://doi.org/10.3934/math.2023646*](https://doi.org/10.3934/math.2023646)*, Registrované v: WOS*

*5. [1.1] PU, W.P. - LI, M.M. Existence and Ulam-type stability for impulsive oscillating systems with pure delay. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, DEC 2023, vol. 46, no. 18, p. 19018-19034. Dostupné na:* [*https://doi.org/10.1002/mma.9606*](https://doi.org/10.1002/mma.9606)*, Registrované v: WOS*

*6. [1.1] RIZWAN, R. - LIU, F.X. - ZHENG, Z.Y. - PARK, C. - PAOKANTA, S. Existence theory and Ulam';s stabilities for switched coupled system of implicit impulsive fractional order Langevin equations. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, DEC 12 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01785-4*](https://doi.org/10.1186/s13661-023-01785-4)*, Registrované v: WOS*

*7. [1.1] TIAN, M.Q. - LUO, D.F. Existence and Finite-Time Stability Results for Impulsive Caputo-Type Fractional Stochastic Differential Equations with Time Delays. In MATHEMATICA SLOVACA. ISSN 0139-9918, APR 1 2023, vol. 73, no. 2, p. 387-406. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0030*](https://doi.org/10.1515/ms-2023-0030)*, Registrované v: WOS*

*8. [1.1] ZHAO, K.H. Existence and UH-stability of integral boundary problem for a class of nonlinear higher-order Hadamard fractional Langevin equation via Mittag-Leffler functions. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 4, p. 1053-1063. Dostupné na:* [*https://doi.org/10.2298/FIL2304053Z*](https://doi.org/10.2298/fil2304053z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA268 | WANG, J. - ZHOU, Y. - FEČKAN, Michal. On recent developments in the theory of boundary value problems for impulsive fractional differential equations. In Computers & Mathematics with Applications, 2012, vol. 64, no. 10, p. 3008-3020. (2011: 1.747 - IF, Q1 - JCR, 1.162 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0898-1221. Dostupné na: <https://doi.org/10.1016/j.camwa.2011.12.064> |

Citácie:

*1. [1.1] ALIDOUSTI, J. - FARDI, M. - AL-OMARI, S. Bifurcation analysis of impulsive fractional-order Beddington-DeAngelis prey-predator model. In NONLINEAR ANALYSIS-MODELLING AND CONTROL. ISSN 1392-5113, 2023, vol. 28, no. 6, p. 1103-1119. Dostupné na:* [*https://doi.org/10.15388/namc.2023.28.33471*](https://doi.org/10.15388/namc.2023.28.33471)*, Registrované v: WOS*

*2. [1.1] ALRUWAILY, Y. - ALJOUDI, S. - ALMAGHAMSI, L. - BEN MAKHLOUF, A. - ALGHAMDI, N. Existence and Uniqueness Results for Different Orders Coupled System of Fractional Integro-Differential Equations with Anti-Periodic Nonlocal Integral Boundary Conditions. In SYMMETRY-BASEL. JAN 2023, vol. 15, no. 1. Dostupné na:* [*https://doi.org/10.3390/sym15010182*](https://doi.org/10.3390/sym15010182)*, Registrované v: WOS*

*3. [1.1] JUNIOR, J.F. - SOUSA, J.V.D. - DE OLIVEIRA, E.C. THE e-POSITIVE MILD SOLUTIONS FOR IMPULSIVE EVOLUTION FRACTIONAL DIFFERENTIAL EQUATIONS WITH SECTORIAL OPERATOR. In DIFFERENTIAL EQUATIONS & APPLICATIONS. ISSN 1847-120X, MAY 2023, vol. 15, no. 2, p. 91-112. Dostupné na:* [*https://doi.org/10.7153/dea-2023-15-06*](https://doi.org/10.7153/dea-2023-15-06)*, Registrované v: WOS*

*4. [1.1] KALSOOM, A. - AFSHEEN, S. - AZAM, A. - ALI, F. Existence and compatibility of positive solutions for boundary value fractional differential equation with modified analytic kernel. In AIMS MATHEMATICS. 2023, vol. 8, no. 4, p. 7766-7786. Dostupné na:* [*https://doi.org/10.3934/math.2023390*](https://doi.org/10.3934/math.2023390)*, Registrované v: WOS*

*5. [1.1] KHARADE, J.P. - KUCCHE, K.D. On the (k, ?)-Hilfer nonlinear impulsive fractional differential equations. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, OCT 2023, vol. 46, no. 15, SI, p. 16282-16304. Dostupné na:* [*https://doi.org/10.1002/mma.9450*](https://doi.org/10.1002/mma.9450)*, Registrované v: WOS*

*6. [1.1] KWON, D. A FUNCTION CONTAINING ALL LAGRANGE NUMBERS LESS THAN THREE. In HONAM MATHEMATICAL JOURNAL. ISSN 1225-293X, SEP 2023, vol. 45, no. 3, p. 542-554. Dostupné na:* [*https://doi.org/10.5831/HMJ.2023.45.3.542*](https://doi.org/10.5831/hmj.2023.45.3.542)*, Registrované v: WOS*

*7. [1.1] YANG, P.H. - YANG, C.X. The new general solution for a class of fractional-order impulsive differential equations involving the Riemann-Liouville type Hadamard fractional derivative. In AIMS MATHEMATICS. 2023, vol. 8, no. 5, p. 11837-11850. Dostupné na:* [*https://doi.org/10.3934/math.2023599*](https://doi.org/10.3934/math.2023599)*, Registrované v: WOS*

*8. [1.1] ZHANG, X.M. - LIU, Z.H. - YANG, S.X. - PENG, Z.M. - HE, Y.L. - WEI, L.R. The Right Equivalent Integral Equation of Impulsive Caputo Fractional-Order System of Order e ? (1,2). In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010037*](https://doi.org/10.3390/fractalfract7010037)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA269 | WANG, JinRong - ZHANG, Wenlin - FEČKAN, Michal. Periodic boundary value problem for second-order differential equations from geophysical fluid flows. In Monatshefte für Mathematik, 2021, vol. 195, p. 523-540. (2020: 0.808 - IF, Q3 - JCR, 0.719 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01539-3> |

Citácie:

*1. [1.1] JIANG, Y.X. - SHI, W. - LI, X.J. Existence theory for multiple solutions to second-order singular Dirichlet boundary value problem modeling the Antarctic Circumpolar Current. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, MAR 31 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01720-7*](https://doi.org/10.1186/s13661-023-01720-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA270 | WANG, JinRong - FEČKAN, Michal. Dynamics of a discrete nonlinear prey-predator model. In International Journal of Bifurcation and Chaos, 2020, vol. 30, no. 4, art. no. 2050055, p. 1-15. (2019: 2.469 - IF, Q2 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127420500558](https://doi.org/10.1142/s0218127420500558) |

Citácie:

*1. [1.1] CH-CHAOUI, M. - MOKNI, K. A discrete evolutionary Beverton-Holt population model. In INTERNATIONAL JOURNAL OF DYNAMICS AND CONTROL. ISSN 2195-268X, JUN 2023, vol. 11, no. 3, p. 1060-1075. Dostupné na:* [*https://doi.org/10.1007/s40435-022-01035-y*](https://doi.org/10.1007/s40435-022-01035-y)*, Registrované v: WOS*

*2. [1.1] GUMUS, O.A. A STUDY ON STABILITY, BIFURCATION ANALYSIS AND CHAOS CONTROL OF A DISCRETE-TIME PREY-PREDATOR SYSTEM INVOLVING ALLEE EFFECT. In JOURNAL OF APPLIED ANALYSIS AND COMPUTATION. ISSN 2156-907X, DEC 2023, vol. 13, no. 6, p. 3166-3194. Dostupné na:* [*https://doi.org/10.11948/20220532*](https://doi.org/10.11948/20220532)*, Registrované v: WOS*

*3. [1.1] MOKNI, K. - CH-CHAOUI, M. STRONG ALLEE EFFECT AND EVOLUTIONARY DYNAMICS IN A SINGLE-SPECIES RICKER POPULATION MODEL. In JOURNAL OF BIOLOGICAL SYSTEMS. ISSN 0218-3390, DEC 2023, vol. 31, no. 04, p. 1341-1370. Dostupné na:* [*https://doi.org/10.1142/S0218339023500456*](https://doi.org/10.1142/s0218339023500456)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA271 | WANG, JinRong - FEČKAN, Michal - ZHANG, Wenlin. On the nonlocal boundary value problem of geophysical fluid flows. In Zeitschrift für angewandte Mathematik und Physik, 2021, vol. 72, no. 1, art. no. 27. (2020: 1.934 - IF, Q2 - JCR, 0.988 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0044-2275. Dostupné na: <https://doi.org/10.1007/s00033-020-01452-z> |

Citácie:

*1. [1.1] JIANG, Y.X. - SHI, W. - LI, X.J. Existence theory for multiple solutions to second-order singular Dirichlet boundary value problem modeling the Antarctic Circumpolar Current. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, MAR 31 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01720-7*](https://doi.org/10.1186/s13661-023-01720-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA272 | WANG, JinRong\*\* - FEČKAN, Michal - WEN, Qian - O´REGAN, Donal. Existence and uniqueness results for modeling jet flow of the antarctic circumpolar current. In Monatshefte für Mathematik, 2021, vol. 194, p. 601-621. (2020: 0.808 - IF, Q3 - JCR, 0.719 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-020-01493-6> |

Citácie:

*1. [1.1] CHU, J.F. - MARYNETS, K. - WANG, Z.H. EXISTENCE AND APPROXIMATE SOLUTIONS OF A NONLINEAR MODEL FOR THE ANTARCTIC CIRCUMPOLAR CURRENT. In DIFFERENTIAL AND INTEGRAL EQUATIONS. ISSN 0893-4983, JUL-AUG 2023, vol. 36, no. 7-8, p. 537-558. Dostupné na:* [*https://doi.org/10.57262/die036-0708-537*](https://doi.org/10.57262/die036-0708-537)*, Registrované v: WOS*

*2. [1.1] JIANG, Y.X. - SHI, W. - LI, X.J. Existence theory for multiple solutions to second-order singular Dirichlet boundary value problem modeling the Antarctic Circumpolar Current. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, MAR 31 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01720-7*](https://doi.org/10.1186/s13661-023-01720-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA273 | WANG, JinRong - FEČKAN, Michal - GUAN, Yi. Local and Global Analysis for Discontinuous Atmospheric Ekman Equations. In Journal of Dynamics and Differential Equations, 2023, vol. 35, p. 663-677. (2022: 1.3 - IF, Q2 - JCR, 1.158 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-021-10037-x> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] GUONING, Y. - JIANHONG, W. Direct Data Driven Control for UAVs Formation Dynamic Network. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 38127-38135. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3268153*](https://doi.org/10.1109/access.2023.3268153)*, Registrované v: WOS*

*2. [1.1] GUONING, Y. - JIANHONG, W. Ellipsoidal State Estimation for UAV Real Time Target Tracking. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 97198-97206. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3312561*](https://doi.org/10.1109/access.2023.3312561)*, Registrované v: WOS*

*3. [1.1] WANG, J.H. - OUYANG, Q. Synthesis Identification Analysis for Closed Loop EIV System. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 88422-88432. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3306236*](https://doi.org/10.1109/access.2023.3306236)*, Registrované v: WOS*

*4. [1.1] ZENG, B.H. - WANG, J.H. Complete Synthesis Analysis for Direct Data Driven Control. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 145011-145019. Dostupné na:* [*https://doi.org/10.1109/ACCESS.2023.3346197*](https://doi.org/10.1109/access.2023.3346197)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA274 | WANG, JinRong\*\* - FEČKAN, Michal - LIU, Shengda. Convergence characteristics of PD-type and PDD-type iterative learning control for impulsive differential systems with unknown initial states. In Journal of Vibration and Control, 2018, vol. 24, no. 16, p. 3726-3743. (2017: 2.197 - IF, Q2 - JCR, 0.763 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1077-5463. Dostupné na: <https://doi.org/10.1177/1077546317710159> |

Citácie:

*1. [1.1] HUANG, J. - QIU, C. - YOU, Y.H. - LI, H. Intelligent Dynamic Force Loading Algorithm for Aerospace Rudder Load Simulator. In JOURNAL OF AEROSPACE ENGINEERING. ISSN 0893-1321, SEP 1 2023, vol. 36, no. 5. Dostupné na:* [*https://doi.org/10.1061/JAEEEZ.ASENG-4466*](https://doi.org/10.1061/jaeeez.aseng-4466)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA275 | WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In Journal of Optimization Theory and Applications, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239. Dostupné na: <https://doi.org/10.1007/s10957-018-1313-6> |

Citácie:

*1. [1.1] HUANG, H. - FU, X.L. OPTIMAL FEEDBACK CONTROL RESULTS FOR A SECOND-ORDER EVOLUTION SYSTEM WITH FINITE DELAY. In EVOLUTION EQUATIONS AND CONTROL THEORY. ISSN 2163-2480, DEC 2023, vol. 12, no. 6, p. 1577-1601. Dostupné na:* [*https://doi.org/10.3934/eect.2023027*](https://doi.org/10.3934/eect.2023027)*, Registrované v: WOS*

*2. [1.1] KASINATHAN, R. - KASINATHAN, R. - SANDRASEKARAN, V. - NIETO, J.J. Wellposedness and controllability results of stochastic integrodifferential equations with noninstantaneous impulses and Rosenblatt process. In FIXED POINT THEORY AND ALGORITHMS FOR SCIENCES AND ENGINEERING. MAY 15 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13663-023-00744-z*](https://doi.org/10.1186/s13663-023-00744-z)*, Registrované v: WOS*

*3. [1.1] LIANG, Y.X. - FAN, Z.B. - LI, G. PROCESS-CONTROLLABILITY OF SEMILINEAR EVOLUTION EQUATIONS AND APPLICATIONS. In SIAM JOURNAL ON CONTROL AND OPTIMIZATION. ISSN 0363-0129, 2023, vol. 61, no. 6, p. 3664-3694. Dostupné na:* [*https://doi.org/10.1137/23M1568211*](https://doi.org/10.1137/23m1568211)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA276 | WANG, JinRong\*\* - IBRAHIM, Ahmed Gamal - FEČKAN, Michal - ZHOU, Yong. Controllability of fractional non-instantaneous impulsive differential inclusions without compactness. In IMA Journal of Mathematical Control and Information, 2019, vol. 36, no. 2, p. 443-460. (2018: 1.000 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0265-0754. Dostupné na: <https://doi.org/10.1093/imamci/dnx055> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. Existence and controllability for conformable fractional stochastic differential equations with infinite delay via measures of noncompactness. In CHAOS. ISSN 1054-1500, JAN 2023, vol. 33, no. 1. Dostupné na:* [*https://doi.org/10.1063/5.0125651*](https://doi.org/10.1063/5.0125651)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*4. [1.1] SALEM, A. - ABDULLAH, S. Controllability results to non-instantaneous impulsive with infinite delay for generalized fractional differential equations. In ALEXANDRIA ENGINEERING JOURNAL. ISSN 1110-0168, MAY 1 2023, vol. 70, p. 525-533. Dostupné na:* [*https://doi.org/10.1016/j.aej.2023.03.004*](https://doi.org/10.1016/j.aej.2023.03.004)*, Registrované v: WOS*

*5. [1.1] WANG, Q. - XIE, C.Y. - DENG, Q.Q. - HU, Y.T. Controllability results of neutral Caputo fractional functional differential equations. In AIMS MATHEMATICS. 2023, vol. 8, no. 12, p. 30353-30373. Dostupné na:* [*https://doi.org/10.3934/math.20231550*](https://doi.org/10.3934/math.20231550)*, Registrované v: WOS*

*6. [1.1] WANG, Y. - LIU, Y.Y. - LIU, Y.S. Total controllability of non-autonomous second-order measure evolution systems with state-dependent delay and non-instantaneous impulses. In MATHEMATICAL BIOSCIENCES AND ENGINEERING. ISSN 1547-1063, 2023, vol. 20, no. 2, p. 2061-2080. Dostupné na:* [*https://doi.org/10.3934/mbe.2023095*](https://doi.org/10.3934/mbe.2023095)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA277 | WANG, JinRong - FEČKAN, Michal - TIAN, Ying. Stability analysis for a general class of non-instantaneous impulsive differential equations. In Mediterranean Journal of Mathematics, 2017, vol. 14, no. 2, art. no. 46. (2016: 0.868 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-017-0867-0> |

Citácie:

*1. [1.1] DENG, H. - LI, C.D. - WANG, Y.N. Asymptotic stability of non-instantaneous impulsive systems and T-S fuzzy non-instantaneous impulsive control for nonlinear systems. In IET CONTROL THEORY AND APPLICATIONS. ISSN 1751-8644, JUN 2023, vol. 17, no. 9, p. 1184-1202. Dostupné na:* [*https://doi.org/10.1049/cth2.12448*](https://doi.org/10.1049/cth2.12448)*, Registrované v: WOS*

*2. [1.1] HAMMAD, H.A. - DE LA SEN, M. Stability and Controllability Study for Mixed Integral Fractional Delay Dynamic Systems Endowed with Impulsive Effects on Time Scales. In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010092*](https://doi.org/10.3390/fractalfract7010092)*, Registrované v: WOS*

*3. [1.1] LI, C.X. - HUI, F.S. - LI, F.F. Stability of Differential Systems with Impulsive Effects. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204382*](https://doi.org/10.3390/math11204382)*, Registrované v: WOS*

*4. [1.1] PERVAIZ, B. - ZADA, A. - POPA, I.L. - BEN MOUSSA, S. - ABD EL-GAWAD, H.H. Analysis of fractional integro causal evolution impulsive systems on time scales. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, SEP 30 2023, vol. 46, no. 14, p. 15226-15243. Dostupné na:* [*https://doi.org/10.1002/mma.9374*](https://doi.org/10.1002/mma.9374)*, Registrované v: WOS*

*5. [1.1] SHAH, S.O. - RIZWAN, R. - XIA, Y.H. - ZADA, A. Existence, uniqueness, and stability analysis of fractional Langevin equations with anti-periodic boundary conditions. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, NOV 30 2023, vol. 46, no. 17, p. 17941-17961. Dostupné na:* [*https://doi.org/10.1002/mma.9539*](https://doi.org/10.1002/mma.9539)*, Registrované v: WOS*

*6. [1.1] SHAH, S.O. - TIKARE, S. - OSMAN, M. Ulam Type Stability Results of Nonlinear Impulsive Volterra-Fredholm Integro-Dynamic Adjoint Equations on Time Scale. In MATHEMATICS. NOV 2023, vol. 11, no. 21. Dostupné na:* [*https://doi.org/10.3390/math11214498*](https://doi.org/10.3390/math11214498)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA278 | WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Nonlocal impulsive fractional differential inclusions with fractional sectorial operators on Banach spaces. In Applied Mathematics and Computation, 2015, vol. 257, p. 103-118. (2014: 1.551 - IF, Q1 - JCR, 0.961 - SJR, Q2 - SJR, karentované - CCC).  (2015 - Current Contents). ISSN 0096-3003. Dostupné na: <https://doi.org/10.1016/j.amc.2014.04.093> |

Citácie:

*1. [1.1] AHMED, H.M. - EL-BORAI, M.M. - EL-SAYED, W.G. - ELBADRAWI, A.Y. Fractional Stochastic Evolution Inclusions with Control on the Boundary. In SYMMETRY-BASEL. APR 2023, vol. 15, no. 4. Dostupné na:* [*https://doi.org/10.3390/sym15040928*](https://doi.org/10.3390/sym15040928)*, Registrované v: WOS*

*2. [1.1] AL-SADI, W. - WEI, Z.C. - MOROZ, I. - ALKHAZZAN, A. EXISTENCE AND STABILITY OF SOLUTION IN BANACH SPACE FOR AN IMPULSIVE SYSTEM INVOLVING ATANGANA-BALEANU AND CAPUTO-FABRIZIO DERIVATIVES. In FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY. ISSN 0218-348X, 2023, vol. 31, no. 10. Dostupné na:* [*https://doi.org/10.1142/S0218348X23400856*](https://doi.org/10.1142/s0218348x23400856)*, Registrované v: WOS*

*3. [1.1] GAUTAM, G.R. - PINELAS, S. - KUMAR, M. - ARYA, N. - BISHNOI, J. On the solution of T -controllable abstract fractional differential equations with impulsive effects. In CUBO-A MATHEMATICAL JOURNAL. ISSN 0716-7776, NOV 2023, vol. 25, no. 3, p. 363-386. Dostupné na:* [*https://doi.org/10.56754/0719-0646.2503.363*](https://doi.org/10.56754/0719-0646.2503.363)*, Registrované v: WOS*

*4. [1.1] GHALIA, S. - AFFANE, D. On the Attainable Set of Iterative Differential Inclusions. In MATHEMATICA SLOVACA. ISSN 0139-9918, DEC 1 2023, vol. 73, no. 6, p. 1479-1498. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0107*](https://doi.org/10.1515/ms-2023-0107)*, Registrované v: WOS*

*5. [1.1] KALIRAJ, K. - MUTHUVEL, K. A study on the approximate controllability results of fractional stochastic integro-differential inclusion systems via sectorial operators. In INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL-THEORIES & APPLICATIONS-IJOCTA. ISSN 2146-0957, 2023, vol. 13, no. 2, p. 193-204. Dostupné na:* [*https://doi.org/10.11121/ijocta.2023.1348*](https://doi.org/10.11121/ijocta.2023.1348)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA279 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Approximate controllability of Sobolev type fractional evolution systems with nonlocal conditions. In Evolution Equations and Control Theory, 2017, vol. 6, no. 3, p. 471-486. (2016: 0.826 - IF, Q2 - JCR, 0.999 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2163-2480. Dostupné na: <https://doi.org/10.3934/eect.2017024> |

Citácie:

*1. [1.1] AHMED, H.M. APPROXIMATE CONTROLLABILITY OF NEUTRAL FRACTIONAL STOCHASTIC DIFFERENTIAL SYSTEMS WITH CONTROL ON THE BOUNDARY. In NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION. ISSN 2155-3289, 2023 MAR 2023. Dostupné na:* [*https://doi.org/10.3934/naco.2023013*](https://doi.org/10.3934/naco.2023013)*, Registrované v: WOS*

*2. [1.1] WANG, M. - JI, S.C. - QIU, C. - FENG, Q.S. EXACT NULL CONTROLLABILITY FOR SEMILINEAR DIFFERENTIAL EQUATIONS WITH NONLOCAL CONDITIONS IN HILBERT SPACES. In JOURNAL OF NONLINEAR FUNCTIONAL ANALYSIS. 2023, vol. 2023. Dostupné na:* [*https://doi.org/10.23952/jnfa.2023.21*](https://doi.org/10.23952/jnfa.2023.21)*, Registrované v: WOS*

*3. [1.2] BOUACIDA, Ichrak - KERBOUA, Mourad - SEGNI, Sami. CONTROLLABILITY RESULTS FOR SOBOLEV TYPE ψ−HILFER FRACTIONAL BACKWARD PERTURBED INTEGRO-DIFFERENTIAL EQUATIONS IN HILBERT SPACE. In Evolution Equations and Control Theory, 2023-02-01, 12, 1, pp. 213-229. ISSN 21632472. Dostupné na:* [*https://doi.org/10.3934/eect.2022028*](https://doi.org/10.3934/eect.2022028)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA280 | WANG, JinRong - FEČKAN, Michal. A general class of impulsive evolution equations. In Topological Methods in Nonlinear Analysis, 2015, vol. 46, no. 2, p. 915-933. (2014: 0.477 - IF, Q3 - JCR, 0.581 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1230-3429. Dostupné na: [https://doi.org/10.12775/TMNA.2015.072](https://doi.org/10.12775/tmna.2015.072) |

Citácie:

*1. [1.1] ABUASBEH, K. - NIAZI, A.U.K. - ARSHAD, H.M. - AWADALLA, M. - TRABELSI, S. Approximate Controllability of Fractional Stochastic Evolution Inclusions with Non-Local Conditions. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060462*](https://doi.org/10.3390/fractalfract7060462)*, Registrované v: WOS*

*2. [1.1] ANSARI, S. - MALIK, M. Approximation of solutions to abstract neutral differential equations with non-instantaneous impulses. In JOURNAL OF ANALYSIS. ISSN 0971-3611, DEC 2023, vol. 31, no. 4, p. 3045-3068. Dostupné na:* [*https://doi.org/10.1007/s41478-023-00637-9*](https://doi.org/10.1007/s41478-023-00637-9)*, Registrované v: WOS*

*3. [1.1] ARORA, S. - MOHAN, M.T. - DABAS, J. Finite-Approximate Controllability of Impulsive Fractional Functional Evolution Equations of Order 1 &lt; a &lt; 2. In JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS. ISSN 0022-3239, JUN 2023, vol. 197, no. 3, p. 855-890. Dostupné na:* [*https://doi.org/10.1007/s10957-023-02205-4*](https://doi.org/10.1007/s10957-023-02205-4)*, Registrované v: WOS*

*4. [1.1] ARORA, S. - SINGH, S. - MOHAN, M.T. - DABAS, J. Approximate Controllability of Non-autonomous Second Order Impulsive Functional Evolution Equations in Banach Spaces. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, MAR 2023, vol. 22, no. 1. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00718-3*](https://doi.org/10.1007/s12346-022-00718-3)*, Registrované v: WOS*

*5. [1.1] DENG, H. - LI, C.D. - WANG, Y.N. - WU, H.J. Finite-time stability of solutions for non-instantaneous impulsive systems and application to neural networks. In NEUROCOMPUTING. ISSN 0925-2312, JUN 7 2023, vol. 537, p. 1-11. Dostupné na:* [*https://doi.org/10.1016/j.neucom.2023.02.056*](https://doi.org/10.1016/j.neucom.2023.02.056)*, Registrované v: WOS*

*6. [1.1] DENG, H. - LI, C.D. - WANG, Y.N. Asymptotic stability of non-instantaneous impulsive systems and T-S fuzzy non-instantaneous impulsive control for nonlinear systems. In IET CONTROL THEORY AND APPLICATIONS. ISSN 1751-8644, JUN 2023, vol. 17, no. 9, p. 1184-1202. Dostupné na:* [*https://doi.org/10.1049/cth2.12448*](https://doi.org/10.1049/cth2.12448)*, Registrované v: WOS*

*7. [1.1] DU, W.S. - KOSTIC, M. - VELINOV, D. Abstract Impulsive Volterra Integro-Differential Inclusions. In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010073*](https://doi.org/10.3390/fractalfract7010073)*, Registrované v: WOS*

*8. [1.1] HAKKAR, N. - DHAYAL, R. - DEBBOUCHE, A. - TORRES, D.F.M. Approximate Controllability of Delayed Fractional Stochastic Differential Systems with Mixed Noise and Impulsive Effects. In FRACTAL AND FRACTIONAL. FEB 2023, vol. 7, no. 2. Dostupné na:* [*https://doi.org/10.3390/fractalfract7020104*](https://doi.org/10.3390/fractalfract7020104)*, Registrované v: WOS*

*9. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations Preface. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. V-+. Dostupné na:* [*https://doi.org/10.1515/9783111233871-201*](https://doi.org/10.1515/9783111233871-201)*, Registrované v: WOS*

*10. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. 1-543. Dostupné na:* [*https://doi.org/10.1515/9783111233871*](https://doi.org/10.1515/9783111233871)*, Registrované v: WOS*

*11. [1.1] PRIYA, P.K.L. - KALIRAJ, K. Scrutinization of finite time stability of fractional impulsive neutral model with disturbance. In ISA TRANSACTIONS. ISSN 0019-0578, NOV 2023, vol. 142, p. 70-82. Dostupné na:* [*https://doi.org/10.1016/j.isatra.2023.07.044*](https://doi.org/10.1016/j.isatra.2023.07.044)*, Registrované v: WOS*

*12. [1.1] WANG, Y. - LIU, Y.Y. - LIU, Y.S. Total controllability of non-autonomous second-order measure evolution systems with state-dependent delay and non-instantaneous impulses. In MATHEMATICAL BIOSCIENCES AND ENGINEERING. ISSN 1547-1063, 2023, vol. 20, no. 2, p. 2061-2080. Dostupné na:* [*https://doi.org/10.3934/mbe.2023095*](https://doi.org/10.3934/mbe.2023095)*, Registrované v: WOS*

*13. [1.2] CAMACHO, Oscar - LALVAY-SEGOVIA, S. - LEIVA, Hugo - RIERA-SEGURA, L. Approximate controllability of non-instantaneous impulsive semi-linear neutral differential equations with non-local conditions and unbounded delay. In Quaestiones Mathematicae, 2023-01-01, 46, 10, pp. 2053-2064. ISSN 16073606. Dostupné na:* [*https://doi.org/10.2989/16073606.2022.2125850*](https://doi.org/10.2989/16073606.2022.2125850)*, Registrované v: SCOPUS*

*14. [1.2] DHAWAN, Kanika - VATS, Ramesh Kumar - VERMA, Sachin Kumar - KUMAR, Avadhesh. EXISTENCE AND STABILITY ANALYSIS FOR NON-LINEAR BOUNDARY VALUE PROBLEM INVOLVING CAPUTO FRACTIONAL DERIVATIVE. In Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms, 2023-01-01, 30, 2, pp. 1-20. ISSN 14928760., Registrované v: SCOPUS*

*15. [1.2] DU, Wei Shih - KOSTIĆ, Marko - VELINOV, Daniel. Abstract Impulsive Volterra Integro-Differential Inclusions. In Fractal and Fractional, 2023-01-01, 7, 1, pp. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010073*](https://doi.org/10.3390/fractalfract7010073)*, Registrované v: SCOPUS*

*16. [1.2] HAMOUD, Ahmed A. - KHANDAGALE, Amol D. - GHADLE, Kirtiwant P. On Time Scales Fractional Volterra-Fredholm Integro-Differential Equation. In Discontinuity, Nonlinearity, and Complexity, 2023-01-01, 12, 3, pp. 615-630. ISSN 21646376. Dostupné na:* [*https://doi.org/10.5890/DNC.2023.09.009*](https://doi.org/10.5890/dnc.2023.09.009)*, Registrované v: SCOPUS*

*17. [1.2] LAKSHMI PRIYA, P. K. - KALIRAJ, K. Scrutinization of finite time stability of fractional impulsive neutral model with disturbance. In ISA Transactions, 2023-11-01, 142, pp. 70-82. ISSN 00190578. Dostupné na:* [*https://doi.org/10.1016/j.isatra.2023.07.044*](https://doi.org/10.1016/j.isatra.2023.07.044)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA281 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order differential switched systems with coupled nonlocal initial and impulsive conditions. In Bulletin des sciences mathématiques, 2017, vol. 141, no. 7, p. 727-746. (2016: 0.750 - IF, Q3 - JCR, 0.738 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0007-4497. Dostupné na: <https://doi.org/10.1016/j.bulsci.2017.07.007> |

Citácie:

*1. [1.1] ALI, A. - ANSARI, K.J. - ALRABAIAH, H. - ALOQAILY, A. - MLAIKI, N. Coupled System of Fractional Impulsive Problem Involving Power-Law Kernel with Piecewise Order. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060436*](https://doi.org/10.3390/fractalfract7060436)*, Registrované v: WOS*

*2. [1.1] YUAN, X.L. - ZHOU, Y.S. The fastest stabilization of second-order switched systems with all modes unstable via an optimal state-dependent switching rule revisited. In APPLIED MATHEMATICS AND COMPUTATION. ISSN 0096-3003, NOV 15 2023, vol. 457. Dostupné na:* [*https://doi.org/10.1016/j.amc.2023.128195*](https://doi.org/10.1016/j.amc.2023.128195)*, Registrované v: WOS*

*3. [1.2] JIA, Mei - LI, Tingle - LIU, Xiping. A class of piecewise fractional functional differential equations with impulsive. In International Journal of Nonlinear Sciences and Numerical Simulation, 2023-08-01, 24, 5, pp. 1683-1704. ISSN 15651339. Dostupné na:* [*https://doi.org/10.1515/ijnsns-2021-0306*](https://doi.org/10.1515/ijnsns-2021-0306)*, Registrované v: SCOPUS*

*4. [1.2] ZOU, Jing - LUO, Danfeng - LI, Mengmeng. The existence and averaging principle for stochastic fractional differential equations with impulses. In Mathematical Methods in the Applied Sciences, 2023-04-01, 46, 6, pp. 6857-6874. ISSN 01704214. Dostupné na:* [*https://doi.org/10.1002/mma.8945*](https://doi.org/10.1002/mma.8945)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA282 | WANG, JinRong - LUO, Zijian - FEČKAN, Michal. Relative controllability of semilinear delay differential systems with linear parts defined by permutable matrices. In European Journal of Control, 2017, vol. 38, p. 39-46. (2016: 1.944 - IF, Q2 - JCR, 1.271 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0947-3580. Dostupné na: <https://doi.org/10.1016/j.ejcon.2017.08.002> |

Citácie:

*1. [1.1] ABUASBEH, K. - MAHMUDOV, N.I. - AWADALLA, M. Relative Controllability and Ulam-Hyers Stability of the Second-Order Linear Time-Delay Systems. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040806*](https://doi.org/10.3390/math11040806)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Existence and controllability for conformable fractional stochastic differential equations with infinite delay via measures of noncompactness. In CHAOS. ISSN 1054-1500, JAN 2023, vol. 33, no. 1. Dostupné na:* [*https://doi.org/10.1063/5.0125651*](https://doi.org/10.1063/5.0125651)*, Registrované v: WOS*

*4. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability for higher-order fractional stochastic delay differential equations. In INFORMATION SCIENCES. ISSN 0020-0255, NOV 2023, vol. 648. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119631*](https://doi.org/10.1016/j.ins.2023.119631)*, Registrované v: WOS*

*5. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*6. [1.1] KUMAR, V. - DJEMAI, M. Existence, stability and controllability of piecewise impulsive dynamic systems on arbitrary time domain. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, MAY 2023, vol. 117, p. 529-548. Dostupné na:* [*https://doi.org/10.1016/j.apm.2022.12.027*](https://doi.org/10.1016/j.apm.2022.12.027)*, Registrované v: WOS*

*7. [1.1] MUTHUVEL, K. - SAWANGTONG, P. - KALIRAJ, K. A Note on the Connection between Non-Additive Entropy and h-Derivative. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: WOS*

*8. [1.1] YAN, J.Y. - HU, B. - GUAN, Z.H. Controllability of Nonlinear Impulsive and Switching Systems With Input Delay. In IEEE TRANSACTIONS ON AUTOMATIC CONTROL. ISSN 0018-9286, FEB 2023, vol. 68, no. 2, p. 1184-1191. Dostupné na:* [*https://doi.org/10.1109/TAC.2022.3149876*](https://doi.org/10.1109/tac.2022.3149876)*, Registrované v: WOS*

*9. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA283 | WANG, JinRong - LI, Mengmeng - O´REGAN, Donal - FEČKAN, Michal\*\*. Robustness for linear evolution equations with non-instantaneous impulsive effects. In Bulletin des sciences mathématiques, 2020, vol. 159, p. 1-47. (2019: 1.241 - IF, Q2 - JCR, 0.810 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0007-4497. Dostupné na: <https://doi.org/10.1016/j.bulsci.2019.102827> https://doi.org/10.1016/j.bulsci.2019.102827 |

Citácie:

*1. [1.1] ALSHEEKHHUSSAIN, Z. - IBRAHIM, A.G. - JAWARNEH, Y. Topological Properties of Solution Sets for τ-Fractional Non-Instantaneous Impulsive Semi-Linear Differential Inclusions with Infinite Delay. In FRACTAL AND FRACTIONAL. JUL 2023, vol. 7, no. 7. Dostupné na:* [*https://doi.org/10.3390/fractalfract7070545*](https://doi.org/10.3390/fractalfract7070545)*, Registrované v: WOS*

*2. [1.1] ALSHEEKHHUSSAIN, Z. - IBRAHIM, A.G. - RAMADAN, R.A. Existence of S -asymptotically ω-periodic solutions for non-instantaneous impulsive semilinear di fferential equations and inclusions of fractional order 1 < α < 2. In AIMS MATHEMATICS. 2023, vol. 8, no. 1, p. 76-101. Dostupné na:* [*https://doi.org/10.3934/math.2023004*](https://doi.org/10.3934/math.2023004)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA284 | WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. On the nonlocal Cauchy problem for semilinear fractional order evolution equations. In Central European Journal of Mathematics, 2014, vol. 12, no. 6, p. 911-922. ISSN 1895-1074. Dostupné na: <https://doi.org/10.2478/s11533-013-0381-y> |

Citácie:

*1. [1.2] HERZALLAH, Mohamed A.E. - RADWAN, Ashraf H.A. Existence and uniqueness of the mild solution of an abstract nonlocal semilinear fractional integrodifferential equation. In Asian-European Journal of Mathematics, 2023-05-01, 16, 5, pp. ISSN 17935571. Dostupné na:* [*https://doi.org/10.1142/S1793557123500766*](https://doi.org/10.1142/s1793557123500766)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA285 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. A survey on impulsive fractional differential equations. In Fractional Calculus and Applied Analysis, 2016, vol. 19, no. 4, p. 806-831. (2015: 2.246 - IF, Q1 - JCR, 1.551 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1311-0454. Dostupné na: <https://doi.org/10.1515/fca-2016-0044> |

Citácie:

*1. [1.1] AHMED, H.M. - AHMED, A.M.S. - RAGUSA, M.A. ON SOME NON-INSTANTANEOUS IMPULSIVE DIFFERENTIAL EQUATIONS WITH FRACTIONAL BROWNIAN MOTION AND POISSON JUMPS. In TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS. ISSN 2076-2585, 2023, vol. 14, no. 1, p. 125-140. Dostupné na:* [*https://doi.org/10.30546/2219-1259.14.1.2023.125*](https://doi.org/10.30546/2219-1259.14.1.2023.125)*, Registrované v: WOS*

*2. [1.1] ALSAEDI, A. - AL-HUTAMI, H. - AHMAD, B. INVESTIGATION OF A NONLINEAR MULTI-TERM IMPULSIVE ANTI-PERIODIC BOUNDARY VALUE PROBLEM OF FRACTIONAL q-INTEGRO-DIFFERENCE EQUATIONS. In FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY. ISSN 0218-348X, 2023, vol. 31, no. 10. Dostupné na:* [*https://doi.org/10.1142/S0218348X23401916*](https://doi.org/10.1142/s0218348x23401916)*, Registrované v: WOS*

*3. [1.1] BENKERROUCHE, A. - ETEMAD, S. - SOUID, M.S. - REZAPOUR, S. - AHMAD, H. - BOTMART, T. Fractional variable order differential equations with impulses: A study on the stability and existence properties. In AIMS MATHEMATICS. 2023, vol. 8, no. 1, p. 775-791. Dostupné na:* [*https://doi.org/10.3934/math.2023038*](https://doi.org/10.3934/math.2023038)*, Registrované v: WOS*

*4. [1.1] BOICHUK, O. - FERUK, V. Fredholm boundary-value problem for the system of fractional differential equations. In NONLINEAR DYNAMICS. ISSN 0924-090X, APR 2023, vol. 111, no. 8, p. 7459-7468. Dostupné na:* [*https://doi.org/10.1007/s11071-022-08218-4*](https://doi.org/10.1007/s11071-022-08218-4)*, Registrované v: WOS*

*5. [1.1] CHALISHAJAR, D.N. - RAMKUMAR, K. - RAVIKUMAR, K. - VARSHINI, S. Trajectory Controllability of Hilfer Fractional Neutral Stochastic Differential Equations with Deviated Argument Using Rosenblatt Process and Poisson Jumps. In DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS. ISSN 0971-3514, 2023 MAR 20 2023. Dostupné na:* [*https://doi.org/10.1007/s12591-023-00632-3*](https://doi.org/10.1007/s12591-023-00632-3)*, Registrované v: WOS*

*6. [1.1] HAKKAR, N. - DHAYAL, R. - DEBBOUCHE, A. - TORRES, D.F.M. Approximate Controllability of Delayed Fractional Stochastic Differential Systems with Mixed Noise and Impulsive Effects. In FRACTAL AND FRACTIONAL. FEB 2023, vol. 7, no. 2. Dostupné na:* [*https://doi.org/10.3390/fractalfract7020104*](https://doi.org/10.3390/fractalfract7020104)*, Registrované v: WOS*

*7. [1.1] KAIKOUSIDIS, C. - DOKOUMETZIDIS, A. Implementation of non-linear mixed effects models defined by fractional differential equations. In JOURNAL OF PHARMACOKINETICS AND PHARMACODYNAMICS. ISSN 1567-567X, AUG 2023, vol. 50, no. 4, p. 283-295. Dostupné na:* [*https://doi.org/10.1007/s10928-023-09851-1*](https://doi.org/10.1007/s10928-023-09851-1)*, Registrované v: WOS*

*8. [1.1] NISAR, K.S. - ALSAEED, S. - KALIRAJ, K. - RAVICHANDRAN, C. - ALBALAWI, W. - ABDEL-ATY, A.H. Existence criteria for fractional differential equations using the topological degree method. In AIMS MATHEMATICS. 2023, vol. 8, no. 9, p. 21914-21928. Dostupné na:* [*https://doi.org/10.3934/math.20231117*](https://doi.org/10.3934/math.20231117)*, Registrované v: WOS*

*9. [1.1] TIAN, M.Q. - LUO, D.F. Existence and Finite-Time Stability Results for Impulsive Caputo-Type Fractional Stochastic Differential Equations with Time Delays. In MATHEMATICA SLOVACA. ISSN 0139-9918, APR 1 2023, vol. 73, no. 2, p. 387-406. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0030*](https://doi.org/10.1515/ms-2023-0030)*, Registrované v: WOS*

*10. [1.1] ZHANG, X.M. - LIU, Z.H. - YANG, S.X. - PENG, Z.M. - HE, Y.L. - WEI, L.R. The Right Equivalent Integral Equation of Impulsive Caputo Fractional-Order System of Order e ? (1,2). In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010037*](https://doi.org/10.3390/fractalfract7010037)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA286 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Relaxed controls for nonlinear fractional impulsive evolution equations. In Journal of Optimization Theory and Applications, 2013, vol. 156, no. 1, p. 13-32. (2012: 1.423 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-3239. Dostupné na: <https://doi.org/10.1007/s10957-012-0170-y> |

Citácie:

*1. [1.1] DING, Y.H. - LI, Y.X. Finite-approximate controllability of impulsive ψ-Caputo fractional evolution equations with nonlocal conditions. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, JUN 2023, vol. 26, no. 3, p. 1326-1358. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00164-1*](https://doi.org/10.1007/s13540-023-00164-1)*, Registrované v: WOS*

*2. [1.1] JUNIOR, J.F. - SOUSA, J.V.D. - DE OLIVEIRA, E.C. THE e-POSITIVE MILD SOLUTIONS FOR IMPULSIVE EVOLUTION FRACTIONAL DIFFERENTIAL EQUATIONS WITH SECTORIAL OPERATOR. In DIFFERENTIAL EQUATIONS & APPLICATIONS. ISSN 1847-120X, MAY 2023, vol. 15, no. 2, p. 91-112. Dostupné na:* [*https://doi.org/10.7153/dea-2023-15-06*](https://doi.org/10.7153/dea-2023-15-06)*, Registrované v: WOS*

*3. [1.1] LIANG, Y. Optimal Controls for a Class of Conformable Fractional Evolution Systems. In FRACTAL AND FRACTIONAL. SEP 2023, vol. 7, no. 9. Dostupné na:* [*https://doi.org/10.3390/fractalfract7090640*](https://doi.org/10.3390/fractalfract7090640)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA287 | WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Abstract Cauchy problem for fractional differential equations. In Nonlinear Dynamics, 2013, vol. 71, no. 4, p. 685-700. (2012: 3.009 - IF, Q1 - JCR, 0.873 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0924-090X. Dostupné na: <https://doi.org/10.1007/s11071-012-0452-9> |

Citácie:

*1. [1.1] JUNIOR, J.F. - SOUSA, J.V.D. - DE OLIVEIRA, E.C. THE e-POSITIVE MILD SOLUTIONS FOR IMPULSIVE EVOLUTION FRACTIONAL DIFFERENTIAL EQUATIONS WITH SECTORIAL OPERATOR. In DIFFERENTIAL EQUATIONS & APPLICATIONS. ISSN 1847-120X, MAY 2023, vol. 15, no. 2, p. 91-112. Dostupné na:* [*https://doi.org/10.7153/dea-2023-15-06*](https://doi.org/10.7153/dea-2023-15-06)*, Registrované v: WOS*

*2. [1.1] LI, Q. - ZHAO, J.N. Extremal solutions for fractional evolution equations of order 1 < γ < 2. In AIMS MATHEMATICS. 2023, vol. 8, no. 11, p. 25487-25510. Dostupné na:* [*https://doi.org/10.3934/math.20231301*](https://doi.org/10.3934/math.20231301)*, Registrované v: WOS*

*3. [1.1] OTHMANI, S. - TATAR, N.E. Well-posedness and Mittag-Leffler stability for a nonlinear fractional telegraph problem. In ASIAN JOURNAL OF CONTROL. ISSN 1561-8625, NOV 2023, vol. 25, no. 6, p. 4232-4243. Dostupné na:* [*https://doi.org/10.1002/asjc.3128*](https://doi.org/10.1002/asjc.3128)*, Registrované v: WOS*

*4. [1.1] ZHANG, Q.G. - LI, Y.N. Threshold Results for the Existence of Global and Blow-Up Solutions to a Time Fractional Diffusion System with a Nonlinear Memory Term in a Bounded Domain. In FRACTAL AND FRACTIONAL. JAN 2023, vol. 7, no. 1. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010056*](https://doi.org/10.3390/fractalfract7010056)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA288 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Ulam's type stability of impulsive ordinary differential equations. In Journal of Mathematical Analysis and Applications, 2012, vol. 395, no. 1, p. 258-264. (2011: 1.001 - IF, Q1 - JCR, 1.578 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2012.05.040> |

Citácie:

*1. [1.1] AHMED, H.M. - AHMED, A.M.S. - RAGUSA, M.A. ON SOME NON-INSTANTANEOUS IMPULSIVE DIFFERENTIAL EQUATIONS WITH FRACTIONAL BROWNIAN MOTION AND POISSON JUMPS. In TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS. ISSN 2076-2585, 2023, vol. 14, no. 1, p. 125-140. Dostupné na:* [*https://doi.org/10.30546/2219-1259.14.1.2023.125*](https://doi.org/10.30546/2219-1259.14.1.2023.125)*, Registrované v: WOS*

*2. [1.1] ALIDOUSTI, J. - FARDI, M. - AL-OMARI, S. Bifurcation analysis of impulsive fractional-order Beddington-DeAngelis prey-predator model. In NONLINEAR ANALYSIS-MODELLING AND CONTROL. ISSN 1392-5113, 2023, vol. 28, no. 6, p. 1103-1119. Dostupné na:* [*https://doi.org/10.15388/namc.2023.28.33471*](https://doi.org/10.15388/namc.2023.28.33471)*, Registrované v: WOS*

*3. [1.1] BENCHAIB, A. - SALIM, A. - ABBAS, S. - BENCHOHRA, M. New Stability Results for Abstract Fractional Differential Equations with Delay and Non-Instantaneous Impulses. In MATHEMATICS. AUG 2023, vol. 11, no. 16. Dostupné na:* [*https://doi.org/10.3390/math11163490*](https://doi.org/10.3390/math11163490)*, Registrované v: WOS*

*4. [1.1] CHAHARPASHLOU, R. - LOPES, A.M. HYERS-ULAM-RASSIAS STABILITY OF A NONLINEAR STOCHASTIC FRACTIONAL VOLTERRA INTEGRO-DIFFERENTIAL EQUATION. In JOURNAL OF APPLIED ANALYSIS AND COMPUTATION. ISSN 2156-907X, OCT 2023, vol. 13, no. 5, p. 2799-2808. Dostupné na:* [*https://doi.org/10.11948/20230005*](https://doi.org/10.11948/20230005)*, Registrované v: WOS*

*5. [1.1] DEVELI, F. - DUMAN, O. Existence and stability analysis of solution for fractional delay differential equations. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 6, p. 1869-1878. Dostupné na:* [*https://doi.org/10.2298/FIL2306869D*](https://doi.org/10.2298/fil2306869d)*, Registrované v: WOS*

*6. [1.1] LI, C.X. - HUI, F.S. - LI, F.F. Stability of Differential Systems with Impulsive Effects. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204382*](https://doi.org/10.3390/math11204382)*, Registrované v: WOS*

*7. [1.1] RIZWAN, R. - LIU, F.X. - ZHENG, Z.Y. - PARK, C. - PAOKANTA, S. Existence theory and Ulam';s stabilities for switched coupled system of implicit impulsive fractional order Langevin equations. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, DEC 12 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01785-4*](https://doi.org/10.1186/s13661-023-01785-4)*, Registrované v: WOS*

*8. [1.1] SHAH, S.O. - RIZWAN, R. - XIA, Y.H. - ZADA, A. Existence, uniqueness, and stability analysis of fractional Langevin equations with anti-periodic boundary conditions. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, NOV 30 2023, vol. 46, no. 17, p. 17941-17961. Dostupné na:* [*https://doi.org/10.1002/mma.9539*](https://doi.org/10.1002/mma.9539)*, Registrované v: WOS*

*9. [1.1] SHAH, S.O. - TIKARE, S. - OSMAN, M. Ulam Type Stability Results of Nonlinear Impulsive Volterra-Fredholm Integro-Dynamic Adjoint Equations on Time Scale. In MATHEMATICS. NOV 2023, vol. 11, no. 21. Dostupné na:* [*https://doi.org/10.3390/math11214498*](https://doi.org/10.3390/math11214498)*, Registrované v: WOS*

*10. [1.1] SHER, M. - KHAN, A. - SHAH, K.M. - ABDELJAWAD, T. EXISTENCE AND STABILITY THEORY OF PANTOGRAPH CONFORMABLE FRACTIONAL DIFFERENTIAL PROBLEM. In THERMAL SCIENCE. ISSN 0354-9836, 2023, vol. 27, SI, p. S237-S244. Dostupné na:* [*https://doi.org/10.2298/TSCI23S1237S*](https://doi.org/10.2298/tsci23s1237s)*, Registrované v: WOS*

*11. [1.1] ZHAO, K.H. Existence and UH-stability of integral boundary problem for a class of nonlinear higher-order Hadamard fractional Langevin equation via Mittag-Leffler functions. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 4, p. 1053-1063. Dostupné na:* [*https://doi.org/10.2298/FIL2304053Z*](https://doi.org/10.2298/fil2304053z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA289 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Presentation of solutions of impulsive fractional Langevin equations and existence results. In The European Physical Journal Special Topics, 2013, vol. 222, no. 8, p. 1857-1874. (2012: 1.796 - IF, Q2 - JCR, 0.924 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjst/e2013-01969-9> |

Citácie:

*1. [1.1] AYDIN, M. - MAHMUDOV, N.I. ?-Caputo type time-delay Langevin equations with two general fractional orders. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, MAY 30 2023, vol. 46, no. 8, p. 9187-9204. Dostupné na:* [*https://doi.org/10.1002/mma.9047*](https://doi.org/10.1002/mma.9047)*, Registrované v: WOS*

*2. [1.1] DIEN, N.M. Nonlinear Langevin time-delay differential equations with generalized Caputo fractional derivatives. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 19, p. 6487-6495. Dostupné na:* [*https://doi.org/10.2298/FIL2319487D*](https://doi.org/10.2298/fil2319487d)*, Registrované v: WOS*

*3. [1.1] DU, F.F. - LU, J.G. Adaptive finite-time synchronization of fractional-order delayed fuzzy cellular neural networks. In FUZZY SETS AND SYSTEMS.   
  
ISSN 0165-0114, AUG 30 2023, vol. 466. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.02.001*](https://doi.org/10.1016/j.fss.2023.02.001)*, Registrované v: WOS*

*4. [1.1] LI, G.D. - ZHANG, Y. - GUAN, Y.J. - LI, W.J. Stability analysis of multi-point boundary conditions for fractional differential equation with non-instantaneous integral impulse. In MATHEMATICAL BIOSCIENCES AND ENGINEERING. ISSN 1547-1063, 2023, vol. 20, no. 4, p. 7020-7041. Dostupné na:* [*https://doi.org/10.3934/mbe.2023303*](https://doi.org/10.3934/mbe.2023303)*, Registrované v: WOS*

*5. [1.1] LIU, F.Y. - YANG, Y.Q. - CHANG, Q. Synchronization of fractional-order delayed neural networks with reaction-diffusion terms: Distributed delayed impulsive control. In COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION. ISSN 1007-5704, SEP 2023, vol. 124. Dostupné na:* [*https://doi.org/10.1016/j.cnsns.2023.107303*](https://doi.org/10.1016/j.cnsns.2023.107303)*, Registrované v: WOS*

*6. [1.1] LIU, Y.T. Global Exponential Stability and Synchronization of Discrete-Time Fuzzy Bidirectional Associative Memory Neural Networks via Mittag-Leffler Difference Approach. In INTERNATIONAL JOURNAL OF FUZZY SYSTEMS. ISSN 1562-2479, JUL 2023, vol. 25, no. 5, p. 1922-1934. Dostupné na:* [*https://doi.org/10.1007/s40815-023-01482-5*](https://doi.org/10.1007/s40815-023-01482-5)*, Registrované v: WOS*

*7. [1.1] SUDSUTAD, W. - THAIPRAYOON, C. - KHAMINSOU, B. - ALZABUT, J. - KONGSON, J. A Gronwall inequality and its applications to the Cauchy-type problem under ?-Hilfer proportional fractional operators. In JOURNAL OF INEQUALITIES AND APPLICATIONS. ISSN 1029-242X, FEB 6 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13660-023-02929-x*](https://doi.org/10.1186/s13660-023-02929-x)*, Registrované v: WOS*

*8. [1.1] TIAN, M.Q. - LUO, D.F. Existence and Finite-Time Stability Results for Impulsive Caputo-Type Fractional Stochastic Differential Equations with Time Delays. In MATHEMATICA SLOVACA. ISSN 0139-9918, APR 1 2023, vol. 73, no. 2, p. 387-406. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0030*](https://doi.org/10.1515/ms-2023-0030)*, Registrované v: WOS*

*9. [1.1] WANG, H.H. - KU, J.H. Controllability of Hilfer fractional Langevin evolution equations. In FRONTIERS IN APPLIED MATHEMATICS AND STATISTICS. MAY 18 2023, vol. 9. Dostupné na:* [*https://doi.org/10.3389/fams.2023.1191661*](https://doi.org/10.3389/fams.2023.1191661)*, Registrované v: WOS*

*10. [1.1] WANG, S. - ZHOU, X.F. - JIANG, W. - PANG, D.H. Well-posedness and regularity results for a class of fractional Langevin diffusion equations. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, DEC 2023, vol. 26, no. 6, p. 2675-2719. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00206-8*](https://doi.org/10.1007/s13540-023-00206-8)*, Registrované v: WOS*

*11. [1.1] ZHAO, K.H. Existence and UH-stability of integral boundary problem for a class of nonlinear higher-order Hadamard fractional Langevin equation via Mittag-Leffler functions. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 4, p. 1053-1063. Dostupné na:* [*https://doi.org/10.2298/FIL2304053Z*](https://doi.org/10.2298/fil2304053z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA290 | WANG, Naer - NEDELA, Roman - HU, Kan. Regular dessins uniquely determined by a nilpotent automorphism group. In Journal of group theory, 2018, vol. 21, no. 3, p. 397-415. (2017: 0.581 - IF, Q3 - JCR, 0.778 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1433-5883. Dostupné na: <https://doi.org/10.1515/jgth-2017-0044> |

Citácie:

*1. [1.2] SUN, Lianghong - WANG, Jin. Uniquely regular dessins with nilpotent automorphism groups of odd prime power order. In Journal of Physics: Conference Series, 2023-01-01, 2660, 1, pp. ISSN 17426588. Dostupné na:* [*https://doi.org/10.1088/1742-6596/2660/1/012024*](https://doi.org/10.1088/1742-6596/2660/1/012024)*, Registrované v: SCOPUS*

*2. [1.2] XIU-JUAN, Sun - MOHAMED, Hamdy. Action of Aut(G) on the set of maximal subgroups of p-groups. In Applied Mathematics and Nonlinear Sciences, 2023-01-01, 8, 1, pp. 2405-2412. Dostupné na:* [*https://doi.org/10.2478/amns.2022.1.00023*](https://doi.org/10.2478/amns.2022.1.00023)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA291 | WANG, Xiaowen - WANG, JinRong - FEČKAN, Michal. Controllability of conformable differential systems. In Nonlinear Analysis : Modelling and Control, 2020, vol. 25, no. 4, p. 658-674. (2019: 2.780 - IF, Q1 - JCR, 0.757 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2020.25.18135> |

Citácie:

*1. [1.1] BOUAOUID, M. Mild Solutions of a Class of Conformable Fractional Differential Equations with Nonlocal Conditions. In ACTA MATHEMATICAE APPLICATAE SINICA-ENGLISH SERIES. ISSN 0168-9673, APR 2023, vol. 39, no. 2, p. 249-261. Dostupné na:* [*https://doi.org/10.1007/s10255-022-1015-6*](https://doi.org/10.1007/s10255-022-1015-6)*, Registrované v: WOS*

*2. [1.1] ENNOUARI, T. - ABOUZAID, B. - ACHHAB, M.E. Controllability of infinite-dimensional conformable linear and semilinear systems. In INTERNATIONAL JOURNAL OF DYNAMICS AND CONTROL. ISSN 2195-268X, JUN 2023, vol. 11, no. 3, p. 1265-1275. Dostupné na:* [*https://doi.org/10.1007/s40435-022-01055-8*](https://doi.org/10.1007/s40435-022-01055-8)*, Registrované v: WOS*

*3. [1.1] LIANG, Y. Optimal Controls for a Class of Conformable Fractional Evolution Systems. In FRACTAL AND FRACTIONAL. SEP 2023, vol. 7, no. 9. Dostupné na:* [*https://doi.org/10.3390/fractalfract7090640*](https://doi.org/10.3390/fractalfract7090640)*, Registrované v: WOS*

*4. [1.1] SADEK, L. - LAZAR, T.A. - HASHIM, I. Conformable finite element method for conformable fractional partial differential equations. In AIMS MATHEMATICS. 2023, vol. 8, no. 12, p. 28858-28877. Dostupné na:* [*https://doi.org/10.3934/math.20231479*](https://doi.org/10.3934/math.20231479)*, Registrované v: WOS*

*5. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA292 | WANG, Xu - WANG, JinRong - FEČKAN, Michal\*\*. BP neural network calculus in economic growth modelling of the group of seven. In Mathematics, 2020, vol. 8, no. 37, p. 1-11. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8010037> |

Citácie:

*1. [1.1] WANG, Y. - WEI, W. - ZHOU, Y. The Existence, Uniqueness, and Multiplicity of Solutions for Two Fractional Nonlocal Equations. In AXIOMS. JAN 2023, vol. 12, no. 1. Dostupné na:* [*https://doi.org/10.3390/axioms12010045*](https://doi.org/10.3390/axioms12010045)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA293 | WAWER, M. J. - JARAMILIO, D. E. - DANČÍK, Vladimír - FASS, D. M. - HAGGARTY, S. J. - SHAMJI, A. F. - WAGNER, B. K. - SCHREIBER, S. L. - CLEMONS, P. A. Automated Structure-Activity Relationship Mining: Connecting Chemical Structure to Biological Profiles. M. J. Wawer, D. E. Jaramilio, V. Dancik, D. M. Fass, S. J. Haggarty, A. F. Shamji, B. K. Wagner, S. L. Schreiber and P. A. Clemons. In Journal of Biomolecular Screening, 2014, vol. 19, no. 5, p. 738-748. (2013: 2.012 - IF, Q2 - JCR, 0.966 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1087-0571. Dostupné na: <https://doi.org/10.1177/1087057114530783> |

Citácie:

*1. [1.1] DO ESPíRITO-SANTO, R.F. - SANTOS, D.S. - LAURIA, P.S.S. - DE LIMA, A.A. - ABREU, L.S. - TAVARES, J.F. - CASTILHO, M.S. - SOARES, M.B.P. - VILLARREAL, C.F. Tonantzitlolone B Modulates the Endogenous Opioid System to Promote Antinociception in Mice. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, NOV 10 2023, vol. 86, no. 11, p. 2514-2521. Dostupné na:* [*https://doi.org/10.1021/acs.jnatprod.3c00731*](https://doi.org/10.1021/acs.jnatprod.3c00731)*, Registrované v: WOS*

*2. [1.1] STOSSI, F. - SINGH, P.K. - SAFARI, K. - MARINI, M. - LABATE, D. - MANCINI, M.A. High throughput microscopy and single cell phenotypic image-based analysis in toxicology and drug discovery. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, OCT 2023, vol. 216. Dostupné na:* [*https://doi.org/10.1016/j.bcp.2023.115770*](https://doi.org/10.1016/j.bcp.2023.115770)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA294 | WAWER, Mathias J. - LI, Kejie - GUSTAFSDOTTIR, Sigrun M. - LJOSA, Vebjorn - BODYCOMBE, Nicole E. - MARTON, Melissa A. - SOKOLNICKI, Katherine L. - BRAY, Mark-Anthony - KEMP, Melissa M. - WINCHESTER, Ellen - TAYLOR, Bradley - GRANT, George B. - HON, Suk-Yee C. - DUVALL, Jeremy - WILSON, Anthony J. - BITTKER, Joshua A. - DANČÍK, Vladimír - NARAYAN, Rajiv - SUBRAMANIAN, Aravind - WINCKLER, Wendy - GOLUB, Todd R. - CARPENTER, Anne E. - SHAMJI, Alykhan F. - SCHREIBER, Stuart L. - CLEMONS, Paul A. Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. In Proceedings of the National Academy of Sciences of the United States of America, 2014, vol. 111, no. 30, p. 10911-10916. (2013: 9.809 - IF, Q1 - JCR, 6.989 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0027-8424. Dostupné na: <https://doi.org/10.1073/pnas.1410933111> |

Citácie:

*1. [1.1] BASILE, G. - VETERE, A. - HU, J. - IJADUOLA, O. - ZHANG, Y. - LIU, K.C. - ELTONY, A.M. - DE JESUS, D.F. - FUKUDA, K. - DOHERTY, G. - LEECH, C.A. - CHEPURNY, O.G. - HOLZ, G.G. - YUN, S.H. - ANDERSSON, O. - CHOUDHARY, A. - WAGNER, B.K. - KULKARNI, R.N. Excess pancreatic elastase alters acinar-β cell communication by impairing the mechano-signaling and the PAR2 pathways. In CELL METABOLISM. ISSN 1550-4131, JUL 11 2023, vol. 35, no. 7. Dostupné na:* [*https://doi.org/10.1016/j.cmet.2023.05.007*](https://doi.org/10.1016/j.cmet.2023.05.007)*, Registrované v: WOS*

*2. [1.1] LIU, A.N.K. - SEAL, S. - YANG, H.B. - BENDER, A. Using chemical and biological data to predict drug toxicity. In SLAS DISCOVERY. ISSN 2472-5552, APR 2023, vol. 28, no. 3, p. 53-64. Dostupné na:* [*https://doi.org/10.1016/j.slasd.2022.12.003*](https://doi.org/10.1016/j.slasd.2022.12.003)*, Registrované v: WOS*

*3. [1.1] OKOLO, E.A. - PAHL, A. - SIEVERS, S. - PASK, C.M. - NELSON, A. - MARSDEN, S.P. Scaffold Remodelling of Diazaspirotricycles Enables Synthesis of Diverse sp<SUPo</SUP>-Rich Compounds With Distinct Phenotypic Effects. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, MAY 8 2023, vol. 29, no. 26. Dostupné na:* [*https://doi.org/10.1002/chem.202203992*](https://doi.org/10.1002/chem.202203992)*, Registrované v: WOS*

*4. [1.1] PAHL, A. - SCHOLERMANN, B. - LAMPE, P. - RUSCH, M. - DOW, M. - HEDBERG, C. - NELSON, A. - SIEVERS, S. - WALDMANN, H. - ZIEGLER, S. Morphological subprofile analysis for bioactivity annotation of small molecules. In CELL CHEMICAL BIOLOGY. ISSN 2451-9456, JUL 20 2023, vol. 30, no. 7, p. 839-+. Dostupné na:* [*https://doi.org/10.1016/j.chembiol.2023.06.003*](https://doi.org/10.1016/j.chembiol.2023.06.003)*, Registrované v: WOS*

*5. [1.1] PIEROZAN, P. - KOSNIK, M. - KARLSSON, O. High-content analysis shows synergistic effects of low perfluorooctanoic acid (PFOS) and perfluorooctane sulfonic acid (PFOA) mixture concentrations on human breast epithelial cell carcinogenesis. In ENVIRONMENT INTERNATIONAL. ISSN 0160-  
  
4120, FEB 2023, vol. 172. Dostupné na:* [*https://doi.org/10.1016/j.envint.2023.107746*](https://doi.org/10.1016/j.envint.2023.107746)*, Registrované v: WOS*

*6. [1.1] SANCHEZ-FERNANDEZ, A. - RUMETSHOFER, E. - HOCHREITER, S. - KLAMBAUER, G. CLOOME: contrastive learning unlocks bioimaging databases for queries with chemical structures. In NATURE COMMUNICATIONS. NOV 13 2023, vol. 14, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41467-023-42328-w*](https://doi.org/10.1038/s41467-023-42328-w)*, Registrované v: WOS*

*7. [1.1] STOSSI, F. - SINGH, P.K. - SAFARI, K. - MARINI, M. - LABATE, D. - MANCINI, M.A. High throughput microscopy and single cell phenotypic image-based analysis in toxicology and drug discovery. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, OCT 2023, vol. 216. Dostupné na:* [*https://doi.org/10.1016/j.bcp.2023.115770*](https://doi.org/10.1016/j.bcp.2023.115770)*, Registrované v: WOS*

*8. [1.1] TIAN, G.Y. - HARRISON, P.J. - SREENIVASAN, A.P. - CARRERAS-PUIGVERT, J. - SPJUTH, O. Combining molecular and cell painting image data for mechanism of action prediction. In ARTIFICIAL INTELLIGENCE IN THE LIFE SCIENCES. DEC 2023, vol. 3. Dostupné na:* [*https://doi.org/10.1016/j.ailsci.2023.100060*](https://doi.org/10.1016/j.ailsci.2023.100060)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA295 | WITKOVSKÝ, Viktor - WIMMER, Gejza - DUBY, T. Logarithmic Lambert W × F random variables for the family of chi-squared distributions and their applications. In Statistics & Probability Letters, 2015, vol. 96, p. 223-231. (2014: 0.595 - IF, Q3 - JCR, 0.740 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0167-7152. Dostupné na: <https://doi.org/10.1016/j.spl.2014.09.028> |

Citácie:

*1. [1.1] KääRIK, M. - SELART, A. - PUHKIM, T. - TEE, L. Lambert W Random Variables and Their Applications in Loss Modelling. In SYMMETRY-BASEL. OCT 2023, vol. 15, no. 10. Dostupné na:* [*https://doi.org/10.3390/sym15101877*](https://doi.org/10.3390/sym15101877)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA296 | XIAO, Guanli - FEČKAN, Michal - WANG, JinRong\*\*. On the averaging principle for stochastic differential equations involving Caputo fractional derivative. In Chaos, 2022, vol. 32, art. no. 101105. (2021: 3.741 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1054-1500. Dostupné na: <https://doi.org/10.1063/5.0108050> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. Existence and controllability for conformable fractional stochastic differential equations with infinite delay via measures of noncompactness. In CHAOS. ISSN 1054-1500, JAN 2023, vol. 33, no. 1. Dostupné na:* [*https://doi.org/10.1063/5.0125651*](https://doi.org/10.1063/5.0125651)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*4. [1.1] LIU, J.K. - WEI, W. - WANG, J.B. - XU, W. Limit behavior of the solution of Caputo-Hadamard fractional stochastic differential equations. In APPLIED MATHEMATICS LETTERS. ISSN 0893-9659, JUN 2023, vol. 140. Dostupné na:* [*https://doi.org/10.1016/j.aml.2023.108586*](https://doi.org/10.1016/j.aml.2023.108586)*, Registrované v: WOS*

*5. [1.1] YANG, M. - LV, T. - WANG, Q.R. The Averaging Principle for Hilfer Fractional Stochastic Evolution Equations with Levy Noise. In FRACTAL AND FRACTIONAL. OCT 2023, vol. 7, no. 10. Dostupné na:* [*https://doi.org/10.3390/fractalfract7100701*](https://doi.org/10.3390/fractalfract7100701)*, Registrované v: WOS*

*6. [1.2] LI, Qiang - WU, Xu. Existence and asymptotic behavior of square-mean S-asymptotically periodic solutions for fractional stochastic evolution equation with delay. In Fractional Calculus and Applied Analysis, 2023-04-01, 26, 2, pp. 718-750. ISSN 13110454. Dostupné na:* [*https://doi.org/10.1007/s13540-023-00130-x*](https://doi.org/10.1007/s13540-023-00130-x)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA297 | YAMAMOTO, Yusaku - OKŠA, Gabriel\*\* - VAJTERŠIC, Marián. On convergence to eigenvalues and eigenvectors in the block-Jacobi EVD algorithm with dynamic ordering. In Linear Algebra and its Applications, 2021, vol. 622, p. 19-45. (2020: 1.401 - IF, Q2 - JCR, 0.951 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0024-3795. Dostupné na: <https://doi.org/10.1016/j.laa.2021.03.027> |

Citácie:

*1. [1.1] SAAD, Y. Revisiting the (block) Jacobi subspace rotation method for the symmetric eigenvalue problem. In NUMERICAL ALGORITHMS. ISSN 1017-1398, JAN 2023, vol. 92, no. 1, SI, p. 917-944. Dostupné na:* [*https://doi.org/10.1007/s11075-022-01377-w*](https://doi.org/10.1007/s11075-022-01377-w)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA298 | YANG, Peng - WANG, JinRong\*\* - FEČKAN, Michal. Boundedness, periodicity, and conditional stability of noninstantaneous impulsive evolution equations. In Mathematical Methods in the Applied Sciences, 2020, vol. 43, p. 5905-5926. (2019: 1.626 - IF, Q2 - JCR, 0.667 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.6332> |

Citácie:

*1. [1.1] HAKKAR, N. - DHAYAL, R. - DEBBOUCHE, A. - TORRES, D.F.M. Approximate Controllability of Delayed Fractional Stochastic Differential Systems with Mixed Noise and Impulsive Effects. In FRACTAL AND FRACTIONAL. FEB 2023, vol. 7, no. 2. Dostupné na:* [*https://doi.org/10.3390/fractalfract7020104*](https://doi.org/10.3390/fractalfract7020104)*, Registrované v: WOS*

*2. [1.1] ZHENG, J.C. - YANG, Y.L. M-WDRNNs: Mixed-Weighted Deep Residual Neural Networks for Forward and Inverse PDE Problems. In AXIOMS. AUG 2023, vol. 12, no. 8. Dostupné na:* [*https://doi.org/10.3390/axioms12080750*](https://doi.org/10.3390/axioms12080750)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA299 | YOU, Zhongli - FEČKAN, Michal - WANG, JinRong\*\*. Relative controllability of fractional delay differential equations via delayed perturbation of Mittag-Leffler functions. In Journal of Computational and Applied Mathematics, 2020, vol. 378, p. 1-16. (2019: 2.037 - IF, Q1 - JCR, 0.870 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0377-0427. Dostupné na: <https://doi.org/10.1016/j.cam.2020.112939> |

Citácie:

*1. [1.1] FU, T. - KOU, K.I. - WANG, J.R. RELATIVE CONTROLLABILITY OF QUATERNION DIFFERENTIAL EQUATIONS WITH DELAY. In SIAM JOURNAL ON CONTROL AND OPTIMIZATION. ISSN 0363-0129, 2023, vol. 61, no. 5, p. 2927-2952. Dostupné na:* [*https://doi.org/10.1137/23M1544684*](https://doi.org/10.1137/23m1544684)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability for higher-order fractional stochastic delay differential equations. In INFORMATION   
  
SCIENCES. ISSN 0020-0255, NOV 2023, vol. 648. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119631*](https://doi.org/10.1016/j.ins.2023.119631)*, Registrované v: WOS*

*4. [1.1] JOSHI, D.D. - BHALEKAR, S. - GADE, P.M. Controlling fractional difference equations using feedback. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113401*](https://doi.org/10.1016/j.chaos.2023.113401)*, Registrované v: WOS*

*5. [1.1] LUO, H.P. - LIU, S. Relative controllability of nonlinear switched fractional delayed systems. In COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION. ISSN 1007-5704, MAY 2023, vol. 119. Dostupné na:* [*https://doi.org/10.1016/j.cnsns.2023.107133*](https://doi.org/10.1016/j.cnsns.2023.107133)*, Registrované v: WOS*

*6. [1.1] LUO, H.W. - WANG, J.R. - SHEN, D. Learning ability analysis for linear discrete delay systems with iteration-varying trial length. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, JUN 2023, vol. 171. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113428*](https://doi.org/10.1016/j.chaos.2023.113428)*, Registrované v: WOS*

*7. [1.1] MUTHUVEL, K. - SAWANGTONG, P. - KALIRAJ, K. A Note on the Connection between Non-Additive Entropy and h-Derivative. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: WOS*

*8. [1.1] SOUSA, J.V.D. - LIMA, K.B. - TAVARES, L.S. Existence of Solutions for a Singular Double Phase Problem Involving a ?-Hilfer Fractional Operator Via Nehari Manifold. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, SEP 2023, vol. 22, no. 3. Dostupné na:* [*https://doi.org/10.1007/s12346-023-00794-z*](https://doi.org/10.1007/s12346-023-00794-z)*, Registrované v: WOS*

*9. [1.1] VIJAYAKUMAR, V. - NISAR, K.S. - SHUKLA, M.K. - SHUKLA, A. Impulsive second order control differential equations: Existence and approximate controllability. In JOURNAL OF KING SAUD UNIVERSITY SCIENCE. ISSN 1018-3647, DEC 2023, vol. 35, no. 9. Dostupné na:* [*https://doi.org/10.1016/j.jksus.2023.102925*](https://doi.org/10.1016/j.jksus.2023.102925)*, Registrované v: WOS*

*10. [1.1] ZHAO, D.L. Approximate Controllability for a Class of Semi-Linear Fractional Integro-Differential Impulsive Evolution Equations of Order 1 &lt α &lt 2 with Delay. In MATHEMATICS. OCT 2023, vol. 11, no. 19. Dostupné na:* [*https://doi.org/10.3390/math11194069*](https://doi.org/10.3390/math11194069)*, Registrované v: WOS*

*11. [1.2] LIANG, Yixing - SHI, Yang - FAN, Zhenbin. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In Fractional Calculus and Applied Analysis, 2023-02-01, 26, 1, pp. 439-460. ISSN 13110454. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: SCOPUS*

*12. [1.2] MORÁVKOVÁ, Blanka - DIBLÍK, Josef. Solutions of Linear Discrete Systems with a Single Delay and Impulses. In AIP Conference Proceedings, 2023-09-01, 2849, 1, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0162562*](https://doi.org/10.1063/5.0162562)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCA300 | YOU, Zhongli - FEČKAN, Michal - WANG, JinRong\*\*. On the relative controllability of neutral delay differential equations. In Journal of Mathematical Physics, 2021, vol. 62, art. no. 082704. (2020: 1.488 - IF, Q3 - JCR, 0.708 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/5.0055722> |

Citácie:

*1. [1.1] HUANG, J.Z. - LUO, D.F. - ZHU, Q.X. Relatively exact controllability for fractional stochastic delay differential equations of order κ ∈ (1,2]. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, MAY 2023, vol. 170. Dostupné na:* [*https://doi.org/10.1016/j.chaos.2023.113404*](https://doi.org/10.1016/j.chaos.2023.113404)*, Registrované v: WOS*

*2. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability for higher-order fractional stochastic delay differential equations. In INFORMATION SCIENCES. ISSN 0020-0255, NOV 2023, vol. 648. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119631*](https://doi.org/10.1016/j.ins.2023.119631)*, Registrované v: WOS*

*3. [1.1] HUANG, J.Z. - LUO, D.F. Relatively exact controllability of fractional stochastic delay system driven by Levy noise. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, JUN 2023, vol. 46, no. 9, p. 11188-11211. Dostupné na:* [*https://doi.org/10.1002/mma.9175*](https://doi.org/10.1002/mma.9175)*, Registrované v: WOS*

*4. [1.1] MUTHUVEL, K. - SAWANGTONG, P. - KALIRAJ, K. A Note on the Connection between Non-Additive Entropy and h-Derivative. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA301 | YOU, Zhongli\*\* - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. Relative controllability of impulsive multi-delay differential systems. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 1, p. 70-90. (2021: 2.217 - IF, Q1 - JCR, 0.602 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2022.27.24623> |

Citácie:

*1. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA302 | YOU, Zhongli - WANG, JinRong\*\* - ZHOU, Yong - FEČKAN, Michal. Representation of solutions and finite time stability for delay differential systems with impulsive effects. In International Journal of Nonlinear Sciences and Numerical Simulation, 2019, vol. 20, no. 2, p. 205-221. (2018: 1.033 - IF, Q3 - JCR, 0.288 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1565-1339. Dostupné na: <https://doi.org/10.1515/ijnsns-2018-0137> |

Citácie:

*1. [1.1] KALIRAJ, K. - PRIYA, P.K.L. - NIETO, J.J. Finite-Interval Stability Analysis of Impulsive Fractional-Delay Dynamical System. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060447*](https://doi.org/10.3390/fractalfract7060447)*, Registrované v: WOS*

*2. [1.1] LI, M. - NIU, Y.J. - ZOU, J. A Result Regarding Finite-Time Stability for Hilfer Fractional Stochastic Differential Equations with Delay. In FRACTAL AND FRACTIONAL. AUG 2023, vol. 7, no. 8. Dostupné na:* [*https://doi.org/10.3390/fractalfract7080622*](https://doi.org/10.3390/fractalfract7080622)*, Registrované v: WOS*

*3. [1.1] TIAN, M.Q. - LUO, D.F. Existence and Finite-Time Stability Results for Impulsive Caputo-Type Fractional Stochastic Differential Equations with Time Delays. In MATHEMATICA SLOVACA. ISSN 0139-9918, APR 1 2023, vol. 73, no. 2, p. 387-406. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0030*](https://doi.org/10.1515/ms-2023-0030)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA303 | ZHANG, Wenlin - FEČKAN, Michal - WANG, JinRong\*\*. Positive solutions to integral boundary value problems from geophysical fluid flows. In Monatshefte für Mathematik, 2020, vol. 193, p. 901-925. (2019: 0.933 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-020-01467-8> |

Citácie:

*1. [1.1] CHU, J.F. - MARYNETS, K. - WANG, Z.H. EXISTENCE AND APPROXIMATE SOLUTIONS OF A NONLINEAR MODEL FOR THE ANTARCTIC CIRCUMPOLAR CURRENT. In DIFFERENTIAL AND INTEGRAL EQUATIONS. ISSN 0893-4983, JUL-AUG 2023, vol. 36, no. 7-8, p. 537-558. Dostupné na:* [*https://doi.org/10.57262/die036-0708-537*](https://doi.org/10.57262/die036-0708-537)*, Registrované v: WOS*

*2. [1.1] JIANG, Y.X. - SHI, W. - LI, X.J. Existence theory for multiple solutions to second-order singular Dirichlet boundary value problem modeling the Antarctic Circumpolar Current. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, MAR 31 2023, vol. 2023, no. 1. Dostupné na:* [*https://doi.org/10.1186/s13661-023-01720-7*](https://doi.org/10.1186/s13661-023-01720-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCA304 | ZOU, Yuqun - FEČKAN, Michal - WANG, JinRong. Hyers-Ulam Stability of Linear Recurrence with Constant Coefficients Over the Quaternion Skew Yield. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, no. 1, art. nr. 3. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-022-00695-7> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] DAI, Q. - ZHANG, Y.Y. Stability of Nonlinear Implicit Differential Equations with Caputo-Katugampola Fractional Derivative. In MATHEMATICS. JUL 2023, vol. 11, no. 14. Dostupné na:* [*https://doi.org/10.3390/math11143082*](https://doi.org/10.3390/math11143082)*, Registrované v: WOS*

**ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných**

|  |  |
| --- | --- |
| ADCB01 | AWREJCEWICZ, Jan - FEČKAN, Michal - OLEJNÍK, P. On continuous approximation of discontinuous systems. In Nonlinear Analysis: Theory, Methods & Applications, 2005, vol. 62, no. 7, p. 1317-1331. ISSN 0362-546X. Dostupné na: <https://doi.org/10.1016/j.na.2005.04.033> |

Citácie:

*1. [1.1] CHEN, X.Y. - PI, D.H. Nonlinear Sliding and Nonlinear Regularization of Piecewise Smooth System. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, MAR 2023, vol. 22, no. 1. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00705-8*](https://doi.org/10.1007/s12346-022-00705-8)*, Registrované v: WOS*

*2. [1.1] DIECI, L. - ELIA, C. Master stability function for piecewise smooth Filippov networks?. In AUTOMATICA. ISSN 0005-1098, JUN 2023, vol. 152. Dostupné na:* [*https://doi.org/10.1016/j.automatica.2023.110939*](https://doi.org/10.1016/j.automatica.2023.110939)*, Registrované v: WOS*

*3. [1.1] YU, Y. - ZHU, W.A. - ZHOU, W.Y. - CHEN, Z.Y. DISCONTINUITY-INDUCED MIXED MODE OSCILLATIONS FOR THE NONSMOOTH MURALI-LAKSHMANAN-CHUA CIRCUIT. In JOURNAL OF MECHANICS OF MATERIALS AND STRUCTURES. ISSN 1559-3959, MAR 2023, vol. 18, no. 2, p. 277-291. Dostupné na:* [*https://doi.org/10.2140/jomms.2023.18.277*](https://doi.org/10.2140/jomms.2023.18.277)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB02 | BATTELLI, F. - FEČKAN, Michal. An example of chaotic behaviour in presence of a sliding homoclinic orbit. In Annali di Matematica Pura ed Applicata, 2010, vol. 189, no. 4, s. 615-642. (2009: 0.901 - IF, Q1 - JCR, 1.268 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0373-3114. Dostupné na: <https://doi.org/10.1007/s10231-010-0128-3> |

Citácie:

*1. [1.1] WU, T.T. - HUAN, S.M. - LIU, X.J. Sliding homoclinic orbits and bifurcations of three-dimensional piecewise affine systems. In NONLINEAR DYNAMICS. ISSN 0924-090X, MAY 2023, vol. 111, no. 10, p. 9011-9024. Dostupné na:* [*https://doi.org/10.1007/s11071-023-08301-4*](https://doi.org/10.1007/s11071-023-08301-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB03 | FOULIS, D.J. - PULMANNOVÁ, Sylvia. Logical connectives on lattice effect algebras. In Studia Logica, 2012, vol. 100, no. 6, p. 1291-1315. ISSN 0039-3215. Dostupné na: <https://doi.org/10.1007/s11225-012-9454-3> |

Citácie:

*1. [1.1] ZHANG, X.H. - SHENG, N. - BORZOOEI, R.A. Partial Residuated Implications Induced by Partial Triangular Norms and Partial Residuated Lattices. In AXIOMS. JAN 2023, vol. 12, no. 1. Dostupné na:* [*https://doi.org/10.3390/axioms12010063*](https://doi.org/10.3390/axioms12010063)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB04 | GUPTA, Vidushi\*\* - DABAS, Jaydev - FEČKAN, Michal. Existence results of solutions for impulsive fractional differential equations. In Nonautonomous Dynamical Systems, 2018, vol. 5, no. 1, p. 35-51. ISSN 2353-0626. Dostupné na: <https://doi.org/10.1515/msds-2018-0003> |

Citácie:

*1. [1.1] NAVEEN, S. - PARTHIBAN, V. - ABBAS, Mohamed I. Qualitative Analysis of RLC Circuit Described by Hilfer Derivative with Numerical Treatment Using the Lagrange Polynomial Method. In FRACTAL AND FRACTIONAL, 2023, vol. 7, no. 11, pp. Dostupné na:* [*https://doi.org/10.3390/fractalfract7110804*](https://doi.org/10.3390/fractalfract7110804)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB05 | KOVÁCS, István - NEDELA, Roman. Decomposition of skew-morphisms of cyclic groups. In Ars Mathematica Contemporanea, 2011, vol. 4, p. 329-349. (2011 - Current Contents). ISSN 1855-3966. |

Citácie:

*1. [1.2] DU, Shaofei - YU, Hao - LUO, Wenjuan. Regular Cayley maps of elementary abelian p-groups: Classification and enumeration. In Journal of Combinatorial Theory. Series A, 2023-08-01, 198, pp. ISSN 00973165. Dostupné na:* [*https://doi.org/10.1016/j.jcta.2023.105768*](https://doi.org/10.1016/j.jcta.2023.105768)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADCB06 | ŠUCH, Ondrej. Vertex transitive maps on the Klein bottle. In Ars Mathematica Contemporanea, 2011, vol. 4, no. 2, s. 363-374. (2011 - Current Contents). ISSN 1855-3966. |

Citácie:

*1. [1.1] DATTA, Basudeb - MAITY, Dipendu. Platonic solids, Archimedean solids and semi-equivelar maps on the sphere. In DISCRETE MATHEMATICS, 2022, vol. 345, no. 1, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2021.112652*](https://doi.org/10.1016/j.disc.2021.112652)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB07 | WANG, Xiaoling - FEČKAN, Michal - WANG, JinRong\*\*. Forecasting Economic Growth of the Group of Seven via Fractional-Order Gradient Descent Approach. In Axioms, 2021, vol. 10, no. 4, art. no. 257. (2020: 0.355 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390-axioms10040257> |

Citácie:

*1. [1.1] AHMAD, H. - OZSAHIN, D.U. - FAROOQ, U. - FAHMY, M.A. - ALBALWI, M.D. - ABU-ZINADAH, H. Comparative analysis of new approximate analytical method and Mohand variational transform method for the solution of wave-like equations with variable coefficients. In RESULTS IN PHYSICS. ISSN 2211-3797, AUG 2023, vol. 51. Dostupné na:* [*https://doi.org/10.1016/j.rinp.2023.106623*](https://doi.org/10.1016/j.rinp.2023.106623)*, Registrované v: WOS*

*2. [1.1] WANG, Y. - WEI, W. - ZHOU, Y. The Existence, Uniqueness, and Multiplicity of Solutions for Two Fractional Nonlocal Equations. In AXIOMS. JAN 2023, vol. 12, no. 1. Dostupné na:* [*https://doi.org/10.3390/axioms12010045*](https://doi.org/10.3390/axioms12010045)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADCB08 | WIMMER, Gejza - ALTMANN, G. The multiple Poisson distribution, its characteristics an a variety of forms. In Biometrical Journal, 1996, vol. 38, s. 995-1011. ISSN 0323-3847. |

Citácie:

*1. [1.1] GóMEZ, Y.M. - GALLARDO, D. - BOURGUIGNON, M. - BERTOLLI, E. - CALSAVARA, V.F. A general class of promotion time cure rate models with a new biological interpretation. In LIFETIME DATA ANALYSIS. ISSN 1380-7870, JAN 2023, vol. 29, no. 1, p. 66-86. Dostupné na:* [*https://doi.org/10.1007/s10985-022-09575-3*](https://doi.org/10.1007/s10985-022-09575-3)*, Registrované v: WOS*

**ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADDA01 | BUTKA, P. - PÓCS, Jozef. Generalization of one-sided concept lattices. In Computing and informatics, 2013, vol. 32, no. 2, p. 355-370. (2012: 0.254 - IF, Q4 - JCR, 0.242 - SJR, karentované - CCC). (2013 - Current Contents, WOS). ISSN 1335-9150. |

Citácie:

*1. [1.1] KRIDLO, Ondrej - LOPEZ-RODRIGUEZ, Domingo - ANTONI, Lubomir - ELIAS, Peter - KRAJCI, Stanislav - OJEDA-ACIEGO, Manuel. Connecting concept lattices with bonds induced by external information. In INFORMATION SCIENCES, 2023, vol. 648, art.nr. 119498. ISSN 0020-0255. Dostupné na:* [*https://doi.org/10.1016/j.ins.2023.119498*](https://doi.org/10.1016/j.ins.2023.119498)*, Registrované v: WOS*

*2. [1.1] SHAO, M.W. - HU, Z.Y. - WU, W.Z. - LIU, H. Graph neural networks induced by concept lattices for classification. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING. ISSN 0888-613X, MAR 2023, vol. 154, p. 262-276. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2023.01.001*](https://doi.org/10.1016/j.ijar.2023.01.001)*, Registrované v: WOS*

*3. [1.2] BENÍTEZ-CABALLERO, M. José - MEDINA, Jesús. One-sided Concept Lattices by Blocks. In Studies in Computational Intelligence, 2023-01-01, 1040, pp. 111-118. ISSN 1860949X. Dostupné na:* [*https://doi.org/10.1007/978-3-031-07707-4\_14*](https://doi.org/10.1007/978-3-031-07707-4_14)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADDA02 | DORA, Jean Rosemond - HLUCHÝ, Ladislav - NEMOGA, Karol. Ontology for blind SQL injection. In Computing and informatics, 2023, vol. 42, no. 2, p. 480-500. (2022: 0.7 - IF, Q4 - JCR, 0.196 - SJR, Q4 - SJR). ISSN 1335-9150. Dostupné na: <https://doi.org/10.31577/cai_2023_2_480> (APVV-19-0220 : Ontologická reprezentácia pre bezpečnosť informačných systémov) |

Citácie:

*1. [3.1] YAROVENKO, G.M. - PERKHUN, L.P. - NEBABA, N.A. - BULHAKOVA, O.F. - KOSTENKO, V.V. Development of a model for the formalization of the process of detecting insider cyber threats in banks: An ontological approach. In Actual Problems in Economics. 2023, no. 268, pp. 71-83. doi: 10.32752/1993-6788-2023-1-268-71-83.*

|  |  |
| --- | --- |
| ADDA03 | MAJERNÍK, Vladimír. Quaternion formulation of the Galilean space-time transformation. In Acta Physica Slovaca : journal for experimental and theoretical physics, 2006, vol. 56, no. 1, p. 9-14. (2005: 0.359 - IF, Q4 - JCR, 0.249 - SJR, Q3 - SJR). (2006 - WOS, SCOPUS). ISSN 0323-0465. |

Citácie:

*1. [1.1] ERISIR, Tulay - MUMCU, Gokhan - KIZILTUG, Sezai - YAYLI, Yusuf. On the dual quaternion geometry of screw motions. In ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, 2023, vol. 31, no. 3, pp. 125-144. ISSN 1224-1784. Dostupné na:* [*https://doi.org/10.2478/auom-2023-0035*](https://doi.org/10.2478/auom-2023-0035)*, Registrované v: WOS*

*2. [1.1] ISBILIR, Zehra - GUERSES, Nurten. Examination of generalized Tribonacci dual quaternions. In ACTA ET COMMENTATIONES UNIVERSITATIS TARTUENSIS DE MATHEMATICA, 2023, vol. 27, no. 2, pp. 235-255. ISSN 1406-2283. Dostupné na:* [*https://doi.org/10.12697/ACUTM.2023.27.17*](https://doi.org/10.12697/acutm.2023.27.17)*, Registrované v: WOS*

*3. [1.1] NURKAN, Semra Kaya - GUVEN, Ilkay Arslan. Ordered Leonardo Quadruple Numbers. In SYMMETRY-BASEL, 2023, vol. 15, no. 1, pp. Dostupné na:* [*https://doi.org/10.3390/sym15010149*](https://doi.org/10.3390/sym15010149)*, Registrované v: WOS*

*4. [1.2] İŞBILIR, Zehra - GÜRSES, Nurten. Padovan, Perrin and Pell-Padovan Dual Quaternions. In Turkish Journal of Mathematics and Computer Science, 2023-06-30, 15, 1, pp. 125-144. Dostupné na:* [*https://doi.org/10.47000/tjmcs.999069*](https://doi.org/10.47000/tjmcs.999069)*, Registrované v: SCOPUS*

*5. [1.2] LIU, Le - TANG, Xianfeng - ZHANG, Xiaoguang. Physical Layer Security Enhanced Scheme based on Joint Encryption of Diffusion and Scrambling by Galilean Transformation in CO-OFDM System. In 2023 21st International Conference on Optical Communications and Networks, ICOCN 2023, 2023-01-01, pp. Dostupné na:* [*https://doi.org/10.1109/ICOCN59242.2023.10236077*](https://doi.org/10.1109/icocn59242.2023.10236077)*, Registrované v: SCOPUS*

**ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADEA01 | DI MAIO, G. - HOLÁ, Ľubica - HOLÝ, Dušan - MCCOY, R.A. Topologies on the space of continuous functions. In Topology and its Applications, 1998, vol. 86, no. 2, p. 105-122. ISSN 0166-8641. |

Citácie:

*1. [1.1] CHAUHAN, Tarun kumar - JINDAL, Varun. CLOPEN LINEAR SUBSPACES AND CONNECTEDNESS IN FUNCTION SPACES. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, 2023, vol. 53, no. 5, pp. 1415-1430. ISSN 0035-7596. Dostupné na:* [*https://doi.org/10.1216/rmj.2023.53.1415*](https://doi.org/10.1216/rmj.2023.53.1415)*, Registrované v: WOS*

*2. [1.1] DI CONCILIO, A. Topologicality of the Whitney topology on function spaces in the ωμ -metric framework. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 331, art nr. 108493. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108493*](https://doi.org/10.1016/j.topol.2023.108493)*, Registrované v: WOS*

*3. [1.1] OSMANOGLU, Ismail. The quasicompact-open topology oni KC(X,Y)/i. In SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, 2023, vol. 41, no. 5, pp. 1070-1075. ISSN 1304-7205. Dostupné na:* [*https://doi.org/10.14744/sigma.2022.00022*](https://doi.org/10.14744/sigma.2022.00022)*, Registrované v: WOS*

*4. [1.2] MOHAMADIAN, R. - NAMDARI, M. - NAJAFIAN, H. - SOLTANPOUR, S. A NOTE ON Cinfc/inf(X) VIA A TOPOLOGICAL RING. In Journal of Algebraic Systems, 2023-01-01, 10, 2, pp. 323-334. Dostupné na:* [*https://doi.org/10.22044/jas.2022.11467.1579*](https://doi.org/10.22044/jas.2022.11467.1579)*, Registrované v: SCOPUS*

*5. [3.1] THOMAS, P. Enhanced Efficiency in Sorting: Unveiling the Optimized Bubble Sort Algorithm. In J Robot Auto RES. 2023, vol. 4, no. 3, p. 424-428.*

|  |  |
| --- | --- |
| ADEA02 | DOBRAKOV, Ivan. On integration in Banach spaces I. In Czechoslovak Mathematical Journal, 1970, vol. 20, p. 511-536. ISSN 0011-4642. |

Citácie:

*1. [1.1] BOCCUTO, Antonio - SAMBUCINI, Anna Rita. Abstract Integration with Respect to Measures and Applications to Modular Convergence in Vector Lattice Setting. In RESULTS IN MATHEMATICS, 2023, vol. 78, no. 1, pp. ISSN 1422-6383. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01776-4*](https://doi.org/10.1007/s00025-022-01776-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA03 | DOBRAKOV, Ivan. On representation of linear operators C\_0(T,X). In Czechoslovak Mathematical Journal, 1971, vol. 21, p. 13-30. ISSN 0011-4642. |

Citácie:

*1. [1.1] BAHIDI, Fatima - KRICHEN, Bilel - MEFTEH, Bilel. Existence results for a system of nonlinear operator equations and block operator matrices in locally convex spaces. In GEORGIAN MATHEMATICAL JOURNAL, 2022, vol. 29, no. 2, pp. 179-192. ISSN 1072-947X. Dostupné na:* [*https://doi.org/10.1515/gmj-2021-2127*](https://doi.org/10.1515/gmj-2021-2127)*, Registrované v: WOS*

*2. [1.1] BEN AMAR, Afif - DERBEL, Saoussen. Approximate Fixed Point Theory for Countably Condensing Maps and Multimaps and Applications. In NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 2022, vol. 43, no. 4, pp. 430-462. ISSN 0163-0563. Dostupné na:* [*https://doi.org/10.1080/01630563.2022.2045608*](https://doi.org/10.1080/01630563.2022.2045608)*, Registrované v: WOS*

*3. [1.1] BEN AMARA, Khaled - JERIBI, Aref - KADDACHI, Najib. Equivalence of some properties in the theory of Banach algebras and applications. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, 2023, vol. 520, no. 1, pp. ISSN 0022-247X. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2022.126865*](https://doi.org/10.1016/j.jmaa.2022.126865)*, Registrované v: WOS*

*4. [1.1] BOUDAOUI, Ahmed - KRICHEN, Bilel - LAKSACI, Noura - O';REGAN, Donal. Fixed point theorems in generalized Banach spaces under G-weak topology features. In INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, 2023, vol. 54, no. 2, pp. 532-546. ISSN 0019-5588. Dostupné na:* [*https://doi.org/10.1007/s13226-022-00273-2*](https://doi.org/10.1007/s13226-022-00273-2)*, Registrované v: WOS*

*5. [1.1] JERIBI, Aref - KADDACHI, Najib - LAOUAR, Zahra. Fixed Point Theorems for Weakly Asymptotically Regular Mappings in Banach Spaces with an Application. In NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 2022, vol. 43, no. 1, pp. 68-87. ISSN 0163-0563. Dostupné na:* [*https://doi.org/10.1080/01630563.2021.2001820*](https://doi.org/10.1080/01630563.2021.2001820)*, Registrované v: WOS*

*6. [1.1] KONDRATIEV, Yuri - DA SILVA, Jose L. Random potentials for Markov processes. In APPLICABLE ANALYSIS, 2023, vol. 102, no. 14, pp. 3874-3885. ISSN 0003-6811. Dostupné na:* [*https://doi.org/10.1080/00036811.2022.2101453*](https://doi.org/10.1080/00036811.2022.2101453)*, Registrované v: WOS*

*7. [1.1] KRICHEN, Bilel - MEFTEH, Bilel - TAKTAK, Rahma. Fixed Point Theorems in Generalized Banach Algebras and an Application to Infinite Systems in C([0,1],csub0/sub)xC([0,1],csub0/sub). In NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 2023, vol. 44, no. 5, pp. 333-367. ISSN 0163-0563. Dostupné na:* [*https://doi.org/10.1080/01630563.2023.2172033*](https://doi.org/10.1080/01630563.2023.2172033)*, Registrované v: WOS*

*8. [1.1] LAKSACI, Noura - BOUDAOUI, Ahmed - KRICHEN, Bilel - MUKHEIMER, Aiman - ABDELJAWAD, Thabet. Some noncompact types of fixed point results in the generalized Banach spaces with respect to the G-weak topology contexts and applications. In JOURNAL OF INEQUALITIES AND APPLICATIONS, 2023, vol. 2023, no. 1, pp. ISSN 1029-242X. Dostupné na:* [*https://doi.org/10.1186/s13660-023-03006-z*](https://doi.org/10.1186/s13660-023-03006-z)*, Registrované v: WOS*

*9. [1.1] MEFTEH, Bilel. Existence of solutions of a nonlinear integral equations in a iWC/i-Banach algebra. In RICERCHE DI MATEMATICA, 2023, vol. 72, no. 2, pp. 1007-1022. ISSN 0035-5038. Dostupné na:* [*https://doi.org/10.1007/s11587-021-00618-9*](https://doi.org/10.1007/s11587-021-00618-9)*, Registrované v: WOS*

*10. [1.1] MEFTEH, Bilel. ON THE EXISTENCE OF SOLUTIONS FOR AN INFINITE SYSTEM OF INTEGRAL EQUATIONS. In MISKOLC MATHEMATICAL NOTES, 2023, vol. 24, no. 3, pp. 1453-1467. ISSN 1787-2405. Dostupné na:* [*https://doi.org/10.18514/MMN.2023.3148*](https://doi.org/10.18514/mmn.2023.3148)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA04 | DU, S.F. - JONES, G. - KWAK, J.H. - NEDELA, Roman - ŠKOVIERA, M. Regular embeddings of Kn,n where n is a power of 2. II: The non-metacyclic case. In European Journal of Combinatorics, 2010, vol. 31, s. 1946-1956.  (2009: 0.822 - IF, Q2 - JCR, 1.223 - SJR, Q1 - SJR). ISSN 0195-6698.  Dostupné na: <https://doi.org/10.1016/j.ejc.2010.01.009> |

Citácie:

*1. [1.1] FAN, W.W. - LI, C.H. - QIAO, S.H. Complete circular regular dessins of coprime orders. In DISCRETE MATHEMATICS. ISSN 0012-365X, JAN 2023, vol. 346, no. 1. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113189*](https://doi.org/10.1016/j.disc.2022.113189)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA05 | DU, Shao-Fei - JONES, Gareth - KWAK, Jin Ho - NEDELA, Roman - ŠKOVIERA, Martin. Regular embeddings of K-n,K-n where n is a power of 2. I: Metacyclic case. In European Journal of Combinatorics, 2006, vol. 28, no. 6, s. 1595-1609. ISSN 0195-6698. |

Citácie:

*1. [1.1] FAN, W.W. - LI, C.H. - QIAO, S.H. Complete circular regular dessins of coprime orders. In DISCRETE MATHEMATICS. ISSN 0012-365X, JAN 2023, vol. 346, no. 1. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113189*](https://doi.org/10.1016/j.disc.2022.113189)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA06 | DVUREČENSKIJ, Anatolij - RACHUNEK, Jiri. Probabilistic averaging in bounded commutative residuated l-monoids. In Discrete Mathematics, 2006, vol. 306, no. 13, p. 1317-1326. ISSN 0012-365X. |

Citácie:

*1. [1.1] WOUMFO, F. - ALOMO, E.R.T. - LELE, C. The prime state ideal theorem in state residuated lattices. In PHYSICAL REVIEW RESEARCH. MAR 7 2023, vol. 5, no. 1, p. 131-153. Dostupné na:* [*https://doi.org/10.52547/cgasa.18.1.131*](https://doi.org/10.52547/cgasa.18.1.131)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA07 | HALUŠKOVÁ, Emília. Direct limits of monounary algebras. In Czechoslovak Mathematical Journal, 1999, vol. 49, s. 645-656. ISSN 0011-4642. |

Citácie:

*1. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

*2. [1.2] JASTRZȨBSKA, Małgorzata - WALENDZIAK, Andrzej. Modal Operators on RM Algebras. In Journal of Multiple-Valued Logic and Soft Computing, 2023-01-01, 40, 5-6, pp. 469-489. ISSN 15423980., Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEA08 | HEDLÍKOVÁ, Jarmila. Ternary spaces, media and Chebyshev sets. In Czechoslovak Mathematical Journal, 1983, vol. 33, no. 3, p. 373-389. ISSN 0011-4642. Dostupné na internete: [https://dml.cz/bitstream/handle/10338.dmlcz/101889/CzechMathJ\_33-1983-3\_7.pdf](https://dml.cz/bitstream/handle/10338.dmlcz/101889/czechmathj_33-1983-3_7.pdf) |

Citácie:

*1. [1.1] CARDIN, Marta. Rights Systems and Aggregation Functions on Property Spaces. In MATHEMATICS, 2023, vol. 11, no. 17, pp. Dostupné na:* [*https://doi.org/10.3390/math11173709*](https://doi.org/10.3390/math11173709)*, Registrované v: WOS*

*2. [1.1] SHI, Yi - PANG, Bin - DE BAETS, Bernard. Fuzzy structures induced by fuzzy betweenness relations. In FUZZY SETS AND SYSTEMS, 2023, vol. 466, no., pp. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.11.014*](https://doi.org/10.1016/j.fss.2022.11.014)*, Registrované v: WOS*

*3. [1.1] SHI, Yi. Betweenness relations and gated sets in fuzzy metric spaces. In FUZZY SETS AND SYSTEMS, 2022, vol. 437, no., pp. 1-19. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2021.03.010*](https://doi.org/10.1016/j.fss.2021.03.010)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA09 | HEDLÍKOVÁ, Jarmila - PULMANNOVÁ, Sylvia. Orthogonality spaces and atomistic orthocomplemented lattices. In Czechoslovak Mathematical Journal. ISSN 0011-4642. Dostupné na internete: <http://dml.cz/dmlcz/102428> |

Citácie:

*1. [1.1] PASEKA, J. - VETTERLEIN, T. Linear Orthosets and Orthogeometries. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, MAR 8 2023, vol. 62, no. 3. Dostupné na:* [*https://doi.org/10.1007/s10773-023-05282-3*](https://doi.org/10.1007/s10773-023-05282-3)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA10 | HEDLÍKOVÁ, Jarmila - KATRIŇÁK, T. On a characterization of lattices by the betweenness relation - on a problem of M. Kolibiar. In Algebra Universalis, 1991, vol. 28, no. 3, p. 389-400. ISSN 0002-5240. |

Citácie:

*1. [1.1] GUPTA, Megha - JAYARAM, Balasubramaniam. Fuzzy compatibility relations and pseudo-monometrics: Some correspondences. In FUZZY SETS AND SYSTEMS, 2022, vol. 451, no., pp. 342-360. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.08.001*](https://doi.org/10.1016/j.fss.2022.08.001)*, Registrované v: WOS*

*2. [1.1] SHAKIR, Qays R. On setwise betweenness. In APPLIED GENERAL TOPOLOGY, 2023, vol. 24, no. 1, pp. 115-123. ISSN 1989-4147. Dostupné na:* [*https://doi.org/10.4995/agt.2023.18061*](https://doi.org/10.4995/agt.2023.18061)*, Registrované v: WOS*

*3. [1.2] GUPTA, Megha - NANAVATI, Kavit - JAYARAM, Balasubramaniam. Monometrics on Lattice Betweenness Using Fuzzy Implications. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 14069 LNCS, pp. 667-678. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-39965-7\_55*](https://doi.org/10.1007/978-3-031-39965-7_55)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEA11 | HOLÁ, Ľubica - COSTANTINI, C. - VITOLO, P. Tightness, character and related properties of hyperspace topologies. In Topology and its Applications, 2004, vol. 142, p. 245-292. ISSN 0166-8641. Dostupné na: <https://doi.org/10.1016/j.topol.2004.02.007> |

Citácie:

*1. [1.1] KOCINAC, Ljubisa D. R. - SEN, Ritu. On the Reznichenko and Pytkeev properties in hyperspaces. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 340, no., pp. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108711*](https://doi.org/10.1016/j.topol.2023.108711)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA12 | JAKUBÍKOVÁ-STUDENOVSKÁ, D. - PÓCS, Jozef. Cardinality of retracts of monounary algebras. In Czechoslovak Mathematical Journal, 2008, vol. 58, no. 2, p. 469-479. (2007: 0.155 - IF, Q4 - JCR, 0.376 - SJR, Q3 - SJR). ISSN 0011-4642. |

Citácie:

*1. [1.1] JASTRZEBSKA, M. - WALENDZIAK, A. Modal Operators on RM Algebras. In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2023, vol. 40, no. 5-6, p. 469-489., Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA13 | JONES, Gareth A. - NEDELA, Roman - ŠKOVIERA, Martin. Regular embeddings of Kn,n where n is an odd prime power. In European Journal of Combinatorics, 2007, vol. 28, no. 6, p. 1863-1875. (2006: 0.710 - IF, Q2 - JCR, 1.321 - SJR, Q1 - SJR). ISSN 0195-6698. |

Citácie:

*1. [1.1] FAN, W.W. - LI, C.H. - QIAO, S.H. Complete circular regular dessins of coprime orders. In DISCRETE MATHEMATICS. ISSN 0012-365X, JAN 2023, vol. 346, no. 1. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113189*](https://doi.org/10.1016/j.disc.2022.113189)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA14 | KARABÁŠ, Ján - MALIČKÝ, P. - NEDELA, Roman. 3-manifolds with Heegaard genus two represented by crystallisations with at most 42 vertices. In Discrete Mathematics, 2007, vol. 307, s. 2569-2590. (2006: 0.347 - IF, Q3 - JCR, 0.867 - SJR, Q1 - SJR). ISSN 0012-365X. |

Citácie:

*1. [1.1] CAVICCHIOLI, Paolo. An algorithmic method to compute plat slide moves in 3-manifolds of Heegaard genus two. In DISCRETE MATHEMATICS, 2023, vol. 346, no. 12, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2023.113627*](https://doi.org/10.1016/j.disc.2023.113627)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA15 | KOCHOL, Martin. Superposition and constructions of graphs without nowhere-zero k-flows. In European Journal of Combinatorics, 2002, vol. 23, p. 281-306. ISSN 0195-6698. |

Citácie:

*1. [1.1] LIU, S.Y. - HAO, R.X. - LUO, R. - ZHANG, C.Q. 5-CYCLE DOUBLE COVERS, 4-FLOWS, AND CATLIN REDUCTION. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2023, vol. 37, no. 1, p. 253-267. Dostupné na:* [*https://doi.org/10.1137/22M1472425*](https://doi.org/10.1137/22m1472425)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA16 | KOCHOL, Martin. Construction of crossing-critical graphs. In Discrete Mathematics, 1987, vol. 66, s. 311-313. ISSN 0012-365X. |

Citácie:

*1. [1.1] IRSIC, V. - LEKSE, M. - PAENIK, M. - PODLOGAR, P. - PRAEEK, M. Domination and independence numbers of large 2-crossing-critical graphs. In ARS MATHEMATICA CONTEMPORANEA. ISSN 1855-3966, 2023, vol. 23, no. 4. Dostupné na:* [*https://doi.org/10.26493/1855-3974.2853.b51*](https://doi.org/10.26493/1855-3974.2853.b51)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA17 | MAJERNÍK, Vladimír. Basic Space-Time Transformations Expressed by Means of 2-Component Number-Systems. In Acta Physica Polonica A, 1994, vol. 86, iss. 3, p. 291-295. (1993: 0.333 - IF, karentované - CCC). (1994 - Current Contents). ISSN 1898-794X. |

Citácie:

*1. [1.1] ERISIR, T. - MUMCU, G. - KIZILTUG, S. - YAYLI, Y. On the dual quaternion geometry of screw motions. In ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA. ISSN 1224-1784, SEP 1 2023, vol. 31, no. 3, p. 125-144. Dostupné na:* [*https://doi.org/10.2478/auom-2023-0035*](https://doi.org/10.2478/auom-2023-0035)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEA18 | MESZKA, M. - NEDELA, Roman - ROSA, A. The chromatic number of 5-valent circulants. In Discrete Mathematics, 2008, vol. 308, s. 6269-6284. (2007: 0.377 - IF, Q3 - JCR, 0.989 - SJR, Q1 - SJR). ISSN 0012-365X. |

Citácie:

*1. [1.1] CERVANTES, J. - KREBS, M. Chromatic numbers of Cayley graphs of abelian groups: A matrix method. In LINEAR ALGEBRA AND ITS APPLICATIONS. ISSN 0024-3795, NOV 1 2023, vol. 676, p. 277-295. Dostupné na:* [*https://doi.org/10.1016/j.laa.2023.07.016*](https://doi.org/10.1016/j.laa.2023.07.016)*, Registrované v: WOS*

**ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných**

|  |  |
| --- | --- |
| ADEB01 | BANDELT, H.J. - HEDLÍKOVÁ, Jarmila. Median algebras. In Discrete Mathematics, 1983, vol. 45, no. 1, p. 1-30. ISSN 0012-365X. |

Citácie:

*1. [1.1] BONNET, Robert - KUBIS, Wieslaw - TODORCEVIC, Stevo. Ultrafilter selection and Corson compacta. In REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, 2022, vol. 116, no. 4, pp. ISSN 1578-7303. Dostupné na:* [*https://doi.org/10.1007/s13398-022-01317-2*](https://doi.org/10.1007/s13398-022-01317-2)*, Registrované v: WOS*

*2. [1.1] CHEPOI, Victor - KNAUER, Kolja - PHILIBERT, Manon. AMPLE COMPLETIONS OF ORIENTED MATROIDS AND COMPLEXES OF UNIFORM ORIENTED MATROIDS. In SIAM JOURNAL ON DISCRETE MATHEMATICS, 2022, vol. 36, no. 1, pp. 509-535. ISSN 0895-4801. Dostupné na:* [*https://doi.org/10.1137/20M1355434*](https://doi.org/10.1137/20m1355434)*, Registrované v: WOS*

*3. [1.1] GELY, Alain - COUCEIRO, Miguel - MICLET, Laurent - NAPOLI, Amedeo. A study of algorithms relating distributive lattices, median graphs, and Formal Concept Analysis. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, 2022, vol. 142, no., pp. 370-382. ISSN 0888-613X. Dostupné na:* [*https://doi.org/10.1016/j.ijar.2021.12.011*](https://doi.org/10.1016/j.ijar.2021.12.011)*, Registrované v: WOS*

*4. [1.1] HUANG, Jingyin - KLEINER, Bruce - STADLER, Stephan. Morse quasiflats I. In JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK, 2022, vol. 2022, no. 784, pp. 53-129. ISSN 0075-4102. Dostupné na:* [*https://doi.org/10.1515/crelle-2021-0073*](https://doi.org/10.1515/crelle-2021-0073)*, Registrované v: WOS*

*5. [1.1] POIGER, Wolfgang - TEHEUX, Bruno. The Minor Order of Homomorphisms via Natural Dualities. In ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS, 2023, vol. 40, no. 1, pp. 99-125. ISSN 0167-8094. Dostupné na:* [*https://doi.org/10.1007/s11083-022-09595-6*](https://doi.org/10.1007/s11083-022-09595-6)*, Registrované v: WOS*

*6. [1.1] SEEMANN, Carsten R. - MOULTON, Vincent - STADLER, Peter F. - HELLMUTH, Marc. Planar median graphs and cubesquare-graphs. In DISCRETE APPLIED MATHEMATICS, 2023, vol. 331, no., pp. 38-58. ISSN 0166-218X. Dostupné na:* [*https://doi.org/10.1016/j.dam.2023.01.022*](https://doi.org/10.1016/j.dam.2023.01.022)*, Registrované v: WOS*

*7. [1.1] YANG, Shaojun - HUANG, Xinyi. Convex invariants of iM/i-fuzzifying convex spaces. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, 2022, vol. 43, no. 1, pp. 1077-1090. ISSN 1064-1246. Dostupné na:* [*https://doi.org/10.3233/JIFS-213081*](https://doi.org/10.3233/jifs-213081)*, Registrované v: WOS*

*8. [1.2] MANN, Kathryn - RAFI, Kasra. Large-scale geometry of big mapping class groups. In Geometry and Topology, 2023-01-01, 27, 6, pp. 2237-2296. ISSN 14653060. Dostupné na:* [*https://doi.org/10.2140/gt.2023.27.2237*](https://doi.org/10.2140/gt.2023.27.2237)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB02 | BORSÍK, Ján. Sums of quasicontinuous functions defined on pseudometrizable spaces. In Real Analysis Exchange, 1996/97, vol. 22, s. 328-337. ISSN 0147-1937. |

Citácie:

*1. [1.1] NORMANN, Dag - SANDERS, Sam. On the computational properties of basic mathematical notions. In JOURNAL OF LOGIC AND COMPUTATION, 2022, vol. 32, no. 8, pp. 1747-1795. ISSN 0955-792X. Dostupné na:* [*https://doi.org/10.1093/logcom/exac075*](https://doi.org/10.1093/logcom/exac075)*, Registrované v: WOS*

*2. [1.1] SANDERS, Sam. BIG IN REVERSE MATHEMATICS: MEASURE AND CATEGORY. In JOURNAL OF SYMBOLIC LOGIC, 2023, vol., no., pp. ISSN 0022-4812. Dostupné na:* [*https://doi.org/10.1017/jsl.2023.65*](https://doi.org/10.1017/jsl.2023.65)*, Registrované v: WOS*

*3. [1.1] SANDERS, Sam. The Non-normal Abyss in Kleene';s Computability Theory. In UNITY OF LOGIC AND COMPUTATION, CIE 2023, 2023, vol. 13967, no., pp. 37-49. ISSN 0302-9743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-36978-0\_4*](https://doi.org/10.1007/978-3-031-36978-0_4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB03 | BORSÍK, Ján. Mappings that preserve Cauchy sequences. In Časopis pro pěstování matematiky, 1988, vol. 113, p. 280-285. |

Citácie:

*1. [1.1] GUPTA, Lipsy - KUNDU, Subiman. Cauchy-subregular functions vis-a-vis different types of continuity. In TOPOLOGY AND ITS APPLICATIONS, 2022, vol. 312, no., pp. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2022.108088*](https://doi.org/10.1016/j.topol.2022.108088)*, Registrované v: WOS*

*2. [1.2] BEER, Gerald - ISABEL GARRIDO, M. Reciprocation and Pointwise Product in Vector Lattices of Functions. In Springer Proceedings in Mathematics and Statistics, 2023-01-01, 424, pp. 65-85. ISSN 21941009. Dostupné na:* [*https://doi.org/10.1007/978-3-031-30014-1\_3*](https://doi.org/10.1007/978-3-031-30014-1_3)*, Registrované v: SCOPUS*

*3. [1.2] BEER, Gerald. Bornologies and Lipschitz Analysis. In Bornologies and Lipschitz Analysis, 2023-01-01, pp. 1-232. Dostupné na:* [*https://doi.org/10.1201/9781003047377*](https://doi.org/10.1201/9781003047377)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB04 | BORSÍK, Ján - DOBOŠ, J. On decompositions of quasicontinuity. In Real Analysis Exchange, 1990/91, vol. 16, s. 292-305. ISSN 0147-1937. |

Citácie:

*1. [1.2] BOONPOK, Chawalit - PUE-ON, Prapart. Upper and lower sβ(★)-continuous multifunctions. In European Journal of Pure and Applied Mathematics, 2023-07-01, 16, 3, pp. 1634-1646. Dostupné na:* [*https://doi.org/10.29020/nybg.ejpam.v16i3.4732*](https://doi.org/10.29020/nybg.ejpam.v16i3.4732)*, Registrované v: SCOPUS*

*2. [1.2] THONGMOON, Montri - BOONPOK, Chawalit. Upper and lower almost β(Λ sp)-continuous multifunctions. In WSEAS Transactions on Mathematics, 2022-01-01, 21, pp. 844-853. ISSN 11092769. Dostupné na:* [*https://doi.org/10.37394/23206.2022.21.96*](https://doi.org/10.37394/23206.2022.21.96)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB05 | BORSÍK, Ján. Points of continuity, quasicontinuity and cliquishness. In Rendiconti dell';Istituto di Matematica dell';Universita di Trieste, 1994, vol. 26, p. 5-20. ISSN 0049-4704. |

Citácie:

*1. [1.1] KUMAR, Mandeep - TYAGI, Brij Kishore. Cardinal invariants and special maps of quasicontinuous functions with the topology of pointwise convergence. In APPLIED GENERAL TOPOLOGY, 2022, vol. 23, no. 2, pp. 303-314. ISSN 1989-4147. Dostupné na:* [*https://doi.org/10.4995/agt.2022.16925*](https://doi.org/10.4995/agt.2022.16925)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB06 | CUVALCIOGLU, Gokhan - BUREVA, Veselina - MICHALÍKOVÁ, Alžbeta. Intercriteria analysis applied to university ranking system of Turkey. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 4, p. 90-97. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2019.25.4.90-97> |

Citácie:

*1. [1.2] TRANEVA, Velichka - TRANEV, Stoyan. Multi-layered InterCriteria Analysis as a Digital Tool for Studying the Dependencies of Some Key Indicators of Mortality During the Pandemic in the European Union. In Lecture Notes in Networks and Systems, 2023-01-01, 549, pp. 267-293. ISSN 23673370. Dostupné na:* [*https://doi.org/10.1007/978-3-031-16598-6\_12*](https://doi.org/10.1007/978-3-031-16598-6_12)*, Registrované v: SCOPUS*

*2. [1.2] TUĞRUL, Feride - ÇITIL, Mehmet. On Decision Making Applications via Distance Measures. In Studies in Computational Intelligence, 2023-01-01, 1061, pp. 1-21. ISSN 1860949X. Dostupné na:* [*https://doi.org/10.1007/978-3-031-22042-5\_1*](https://doi.org/10.1007/978-3-031-22042-5_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB07 | ČECH, Radek - KOSEK, Pavel - MAČUTEK, Ján - NAVRÁTILOVÁ, Olga. Proč (někdy) nemíchat texty aneb Text jako možná výchozí jednotka lingvistické analýzy. In Naše řeč, 2020, vol. 103, no. 1-2, p. 24-36. ISSN 0027-8203. |

Citácie:

*1. [1.2] MILIČKA, Jiří - CVRČEK, Václav - LUKEŠ, David. Unpacking lexical intertextuality: Vocabulary shared among texts. In Quantitative Approaches to Universality and Individuality in Language, 2022-11-07, pp. 101-115. Dostupné na:* [*https://doi.org/10.1515/9783110763560-009*](https://doi.org/10.1515/9783110763560-009)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB08 | DANČÍK, Vladimír - ADDONA, T.A. - CLAUSER, K.R. - VATH, J.E. - PEVZNER, P.A. De novo peptide sequencing via tandem mass spectrometry. In   Journal of Computational Biology, 1999, vol. 6, no. 3-4, p. 327-342. ISSN 1066-5277. |

Citácie:

*1. [1.1] CHI, C.K. - ZHOU, Y. - YAO, Z.P. Algorithms for de-novo sequencing of peptides by tandem mass spectrometry: A review. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, AUG 8 2023, vol. 1268. Dostupné na:* [*https://doi.org/10.1016/j.aca.2023.341330*](https://doi.org/10.1016/j.aca.2023.341330)*, Registrované v: WOS*

*2. [1.1] GEISZLER, D.J. - POLASKY, D.A. - YU, F.C. - NESVIZHSKII, A.I. Detecting diagnostic features in MS/MS spectra of post-translationally modified peptides. In NATURE COMMUNICATIONS. JUL 12 2023, vol. 14, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41467-023-39828-0*](https://doi.org/10.1038/s41467-023-39828-0)*, Registrované v: WOS*

*3. [1.1] GUETO-TETTAY, C. - TANG, D. - HAPPONEN, L. - HEUSEL, M. - KHAKZAD, H. - MALMSTRöM, J. - MALMSTRöM, L. Multienzyme deep learning models improve peptide de novo sequencing by mass spectrometry proteomics. In PLOS COMPUTATIONAL BIOLOGY. ISSN 1553-734X, JAN 2023, vol. 19, no. 1. Dostupné na:* [*https://doi.org/10.1371/journal.pcbi.1010457*](https://doi.org/10.1371/journal.pcbi.1010457)*, Registrované v: WOS*

*4. [1.1] LIU, K.Y. - YE, Y.Z. - LI, S.J. - TANG, H.X. Accurate de novo peptide sequencing using fully convolutional neural networks. In NATURE COMMUNICATIONS. DEC 2 2023, vol. 14, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41467-023-43010-x*](https://doi.org/10.1038/s41467-023-43010-x)*, Registrované v: WOS*

*5. [1.1] MADEJ, D. - LAM, H. Modeling Lower-Order Statistics to Enable Decoy-Free FDR Estimation in Proteomics. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, APR 7 2023, vol. 22, no. 4, p. 1159-1171. Dostupné na:* [*https://doi.org/10.1021/acs.jproteome.2c00604*](https://doi.org/10.1021/acs.jproteome.2c00604)*, Registrované v: WOS*

*6. [1.1] WU, R.T. - ZHANG, X. - WANG, R.T. - WANG, H.P. Denovo-GCN: De Novo Peptide Sequencing by Graph Convolutional Neural Networks. In APPLIED SCIENCES-BASEL. APR 2023, vol. 13, no. 7. Dostupné na:* [*https://doi.org/10.3390/app13074604*](https://doi.org/10.3390/app13074604)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB09 | DEL PRETE, I. - DI IORIO, M. - HOLÁ, Ľubica. Graph convergence of set-valued maps and its relationship to other convergences. In Journal of Applied Analysis, 2000, vol. 6, no. 2, p. 213-226. (2000 - SCOPUS). ISSN 1425-6908. |

Citácie:

*1. [1.1] KHAN, Vakeel A. A. - RAHAMAN, S. K. Ashadul - HAZARIKA, Bipan. On statistical graph and pointwise convergence of sequences of set-valued functions defined on intuitionistic fuzzy normed spaces. In SOFT COMPUTING, 2023, vol. 27, no. 10, pp. 6069-6084. ISSN 1432-7643. Dostupné na:* [*https://doi.org/10.1007/s00500-023-07903-9*](https://doi.org/10.1007/s00500-023-07903-9)*, Registrované v: WOS*

*2. [1.2] FU, Jun - ZHANG, Chi. Bi-level Dynamic Optimization of Path-Constrained Switched Systems. In Studies in Systems, Decision and Control, 2023-01-01, 459, pp. 31-60. ISSN 21984182. Dostupné na:* [*https://doi.org/10.1007/978-3-031-23428-6\_2*](https://doi.org/10.1007/978-3-031-23428-6_2)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB10 | DI MAIO, G. - HOLÁ, Ľubica. On hit-and-miss hyperspace topologies. In Rendiconti dell'Accademia delle Scienze Fisiche e Matemàtiche, Napoli, 1995, vol. 62, s. 103-124. ISSN 0370-3568. |

Citácie:

*1. [1.1] KOCINAC, Ljubisa D. R. - SEN, Ritu. On the Reznichenko and Pytkeev properties in hyperspaces. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 340, art. nr. 108711. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108711*](https://doi.org/10.1016/j.topol.2023.108711)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB11 | DORA, Jean Rosemond\*\* - NEMOGA, Karol. Ontology for Cross-Site-Scripting (XSS) Attack in Cybersecurity. In Journal of Cybersecurity and Privacy, 2021, vol.   1, no. 2, p. 319-339. ISSN 2624-800X. Dostupné na: <https://doi.org/10.3390/jcp1020018> |

Citácie:

*1. [1.1] CVITIC, Ivan - PERAKOVIC, Dragan - PERISA, Marko - SEVER, Dominik. Defining Cross-Site Scripting Attack Resilience Guidelines Based on BeEF Framework Simulation. In MOBILE NETWORKS & APPLICATIONS, 2023, vol. 28, no. 4, pp. 1306-1318. ISSN 1383-469X. Dostupné na:* [*https://doi.org/10.1007/s11036-022-02052-z*](https://doi.org/10.1007/s11036-022-02052-z)*, Registrované v: WOS*

*2. [1.1] GUAN, Haocheng - LI, Dongcheng - LI, Hui - ZHAO, Man. A Crawler-Based Vulnerability Detection Method for Cross-Site Scripting Attacks. In 2022 IEEE 22ND INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY, RELIABILITY, AND SECURITY COMPANION, QRS-C, 2022, vol., no., pp. 651-655. ISSN 2693-938X. Dostupné na:* [*https://doi.org/10.1109/QRS-C57518.2022.00103*](https://doi.org/10.1109/qrs-c57518.2022.00103)*, Registrované v: WOS*

*3. [1.1] KAUR, Jasleen - GARG, Urvashi - BATHLA, Gourav. Detection of cross-site scripting (XSS) attacks using machine learning techniques: a review. In ARTIFICIAL INTELLIGENCE REVIEW, 2023, vol. 56, no. 11, pp. 12725-12769. ISSN 0269-2821. Dostupné na:* [*https://doi.org/10.1007/s10462-023-10433-3*](https://doi.org/10.1007/s10462-023-10433-3)*, Registrované v: WOS*

*4. [3.1] WEAMIE, S.J.Y. Cross-Site Scripting Attacks and Defensive Techniques: A Comprehensive Survey, In International Journal of Communications, Network and System Sciences, ISSN 1913-3715, 2022, Vol. 15, no. 8. DOI 10.4236/ijcns.2022.158010 .*

|  |  |
| --- | --- |
| ADEB12 | DORA, Jean Rosemond\*\* - NEMOGA, Karol. Clone Node Detection Attacks and Mitigation Mechanisms in Static Wireless Sensor Networks. In Journal of Cybersecurity and Privacy, 2021, vol. 1, no. 4, p. 553-579. ISSN 2624-800X. Dostupné na: <https://doi.org/10.3390/jcp1040028> |

Citácie:

*1. [1.1] ADIL, M. - MENON, V.G. - BALASUBRAMANIAN, V. - ALOTAIBI, S.R. - SONG, H.B. - JIN, Z.P. - FAROUK, A. Survey: Self-Empowered Wireless Sensor Networks Security Taxonomy, Challenges, and Future Research Directions. In IEEE SENSORS JOURNAL. ISSN 1530-437X, SEP 15 2023, vol. 23, no. 18, p. 20519-20535. Dostupné na:* [*https://doi.org/10.1109/JSEN.2022.3216824*](https://doi.org/10.1109/jsen.2022.3216824)*, Registrované v: WOS*

*2. [1.2] VATAMBETI, Ramesh - DAMERA, Vijay Kumar - KARTHIKEYAN, H. - MANOHAR, M. - SHARON ROJI PRIYA, C. - MEKALA, M. S. Classification of HHO-based Machine Learning Techniques for Clone Attack Detection in WSN. In International Journal of Computer Network and Information Security, 2023-12-01, 15, 6, pp. 1-15. ISSN 20749090. Dostupné na:* [*https://doi.org/10.5815/ijcnis.2023.06.01*](https://doi.org/10.5815/ijcnis.2023.06.01)*, Registrované v: SCOPUS*

*3. [1.2] ZEARAH, Sajad Ali - MAJEED, Maryam Ghassan - BRAYYICH, Mohammed - WASMI ZAYDAN, Nabaa R. - ALI, Aqeel - MOHAMMED, Marwan Qaid - RAJINIKANTH, Venkatesan. A Framework Based on "One Belt, All Road" Strategy to Evaluate Regional Industry';s Cluster Innovation Capacity. In Fusion: Practice and Applications, 2023-01-01, 13, 1, pp. 175-188. ISSN 27700070. Dostupné na:* [*https://doi.org/10.54216/FPA.130114*](https://doi.org/10.54216/fpa.130114)*, Registrované v: SCOPUS*

*4. [3.1] BHUVANA, S. - ANDREWS, KEVIN - JOSEPHINE, M.S. - JEYABALARAJA, V. RELATIVE SPECTRAL FEATURE ANALYSIS-BASED CLONE ATTACK. In Journal of Data Acquisition and Processing, ISSN 1004-9037, 2023, Vol. 38, no. 3, p. 1770-1791, DOI: DOI: 10.5281/zenodo.98549384*

|  |  |
| --- | --- |
| ADEB13 | DVUREČENSKIJ, Anatolij. States on pseudo MV-algebras. In Studia Logica, 2001, vol. 68, p. 301-327. |

Citácie:

*1. [1.1] WOUMFO, Francis - ALOMO, Etienne Romuald Temgoua - LELE, Celestin. The prime state ideal theorem in state residuated lattices. In PHYSICAL REVIEW RESEARCH, 2023, vol. 5, no. 1, pp. 131-153. Dostupné na:* [*https://doi.org/10.52547/cgasa.18.1.131*](https://doi.org/10.52547/cgasa.18.1.131)*, Registrované v: WOS*

*2. [1.2] KOLOGANI, M. Aaly - KARAZMA, F. - BORZOOEI, R. A. - JUN, Y. B. SINGLE VALUED NEUTROSOPHIC IDEALS OF PSEUDO MV-ALGEBRAS. In Journal of Algebra and Related Topics, 2023-06-01, 11, 1, pp. 123-136. ISSN 23453931. Dostupné na:* [*https://doi.org/10.22124/jart.2023.22952.1435*](https://doi.org/10.22124/jart.2023.22952.1435)*, Registrované v: SCOPUS*

*3. [3.1] METCALFE, G. - PAOLI, F. - TSINAKIS, C. Residuated Structures in Algebra and Logic. 2023, AMS, Series: Mathematical Surveys and Monographs, Vol. 277, 2024, 265 pp, ISBN 978-1-4704-6985-6.*

|  |  |
| --- | --- |
| ADEB14 | DVUREČENSKIJ, Anatolij - HYČKO, Marek. On the existence of states for linear pseudo BL-algebras. In Atti del Seminario Matematico e Fisico dell'; Universitá di Modena, 2005, vol. 53, p. 93-110. ISSN 1825-1269. |

Citácie:

*1. [1.1] GUO, Q. - XIN, X.L. State operators on pseudo EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2022, vol. 43, no. 1, p. 1189-1202. Dostupné na:* [*https://doi.org/10.3233/JIFS-212723*](https://doi.org/10.3233/jifs-212723)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB15 | DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Algebras in the positive cone of po-groups. In Order, 2002, vol. 19, p. 127-146. ISSN 0167-8094. |

Citácie:

*1. [1.1] RUMP, W. Structure groups of L-algebras and Hurwitz action. In GEOMETRIAE DEDICATA. ISSN 0046-5755, AUG 2022, vol. 216, no. 4. Dostupné na:* [*https://doi.org/10.1007/s10711-022-00697-4*](https://doi.org/10.1007/s10711-022-00697-4)*, Registrované v: WOS*

*2. [1.1] RUMP, W. The geometry of discrete L-algebras. In ADVANCES IN GEOMETRY. ISSN 1615-715X, OCT 26 2023, vol. 23, no. 4, p. 543-565. Dostupné na:* [*https://doi.org/10.1515/advgeom-2023-0023*](https://doi.org/10.1515/advgeom-2023-0023)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB16 | DVUREČENSKIJ, Anatolij - GRAZIANO, M.G. On representations of commutative BCK-algebras. In Demonstratio Mathematica, 1999, vol. 32, p. 227-246. ISSN 0420-1213. |

Citácie:

*1. [1.1] AVALLONE, A. - VITOLO, P. Sharp elements in d0-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 6, p. 85-103. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.43899.7730*](https://doi.org/10.22111/ijfs.2023.43899.7730)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB17 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia - SALVATI, S. Meanders in orthoposets and QMV algebras. In Demonstratio Mathematica, 2001, vol. 34, s. 1-11. ISSN 0420-1213. |

Citácie:

*1. [1.2] CIUNGU, Lavinia Corina. Implicative-orthomodular algebras. In Bulletin of the Belgian Mathematical Society Simon Stevin, 2023-12-01, 30, 4, pp. 510-531. ISSN 13701444. Dostupné na:* [*https://doi.org/10.36045/j.bbms.230508*](https://doi.org/10.36045/j.bbms.230508)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB18 | DVUREČENSKIJ, Anatolij\*\*. A short note on categorical equivalences of proper weak pseudo EMV-algebras. In Journal of Algebraic Hyperstructures and Logical Algebras, 2022, vol. 3, no. 1, p. 35-44. ISSN 2676-6000. Dostupné na: [https://doi.org/10.52547/HATEF.JAHLA.3.1.4](https://doi.org/10.52547/hatef.jahla.3.1.4) |

Citácie:

*1. [1.1] BAKHSHI, M. - AHN, S. S. - JUN, Y. B. - XIN, X. L. - BORZOOEI, R. A. Construction of some algebras of logic by using fuzzy ideals in MV-modules. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, 2023, vol. 44, no. 3, pp. 4509-4519. ISSN 1064-1246. Dostupné na:* [*https://doi.org/10.3233/JIFS-221552*](https://doi.org/10.3233/jifs-221552)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB19 | FEČKAN, Michal. Bifurcation of periodic solutions in differential inclusions. In Applications of Mathematics, 1997, vol. 42, s. 369-393. ISSN 0862-7940. |

Citácie:

*1. [1.1] ZHENG, H. - XIA, Y.H. CHAOTIC THRESHOLD OF A CLASS OF HYBRID PIECEWISE-SMOOTH SYSTEM BY AN IMPULSIVE EFFECT VIA MELNIKOV-TYPE FUNCTION. In DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B. ISSN 1531-3492, NOV 2022, vol. 27, no. 11, p. 6353-6371. Dostupné na:* [*https://doi.org/10.3934/dcdsb.2021319*](https://doi.org/10.3934/dcdsb.2021319)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB20 | FEČKAN, Michal - WANG, JinRong - ZHOU, Yong. Periodic solutions for nonlinear evolution equations with non-instantaneous impulses. In Nonautonomous Dynamical Systems, 2014, vol. 1, no. 1, p. 93-101. ISSN 2353-0626. |

Citácie:

*1. [1.1] JOURHMANE, Hamza - KASSIDI, Abderrazak - HILAL, Khalid - ELOMARI, M';hamed. Existence of periodic solution for double-phase parabolic problems with strongly nonlinear source. In FILOMAT, 2023, vol. 37, no. 27, pp. 9357-9370. ISSN 0354-5180. Dostupné na:* [*https://doi.org/10.2298/FIL2327357J*](https://doi.org/10.2298/fil2327357j)*, Registrované v: WOS*

*2. [1.1] JOURHMANE, Hamza - KASSIDI, Abderrazak - HILAL, Khalid - ELOMARI, M';hamed. Periodic solutions for a degenerate double-phase parabolic equation with variable growth. In ADVANCES IN OPERATOR THEORY, 2023, vol. 8, no. 4, pp. ISSN 2662-2009. Dostupné na:* [*https://doi.org/10.1007/s43036-023-00296-4*](https://doi.org/10.1007/s43036-023-00296-4)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB21 | GUDDER, S. - PULMANNOVÁ, Sylvia. Representation theorem for convex effect algebras. In Commentationes Mathematicae Universitatis Carolinae, 1998, vol. 39, p. 645-659. ISSN 0010-2628. |

Citácie:

*1. [1.1] PLáVALA, M. General probabilistic theories: An introduction. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, SEP 7 2023, vol. 1033, p. 1-64. Dostupné na:* [*https://doi.org/10.1016/j.physrep.2023.09.001*](https://doi.org/10.1016/j.physrep.2023.09.001)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB22 | HALUŠKOVÁ, Emília - PLOŠČICA, Miroslav. On direct limits of finite algebras. In Contributions to general algebra, 1999, vol. 11, s. 101-104. |

Citácie:

*1. [1.2] JASTRZȨBSKA, Małgorzata - WALENDZIAK, Andrzej. Modal Operators on RM Algebras. In Journal of Multiple-Valued Logic and Soft Computing, 2023-01-01, 40, 5-6, pp. 469-489. ISSN 15423980., Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB23 | HOLÁ, Ľubica - LEVI, S. Decomposition properties of hyperspace topologies. In SET- Valued Analysis, 1997, vol. 5, s. 309-321. ISSN 0927-6947. |

Citácie:

*1. [1.1] ATES, Meryem - SAGIROGLU, Sevda. THE FELL APPROACH STRUCTURE. In COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, 2023, vol. 72, no. 3, pp. 633-649. ISSN 1303-5991. Dostupné na:* [*https://doi.org/10.31801/cfsuasmas.1224326*](https://doi.org/10.31801/cfsuasmas.1224326)*, Registrované v: WOS*

*2. [1.1] LIU, Chuan - LIN, Fucai. Hyperspaces with a countable character of closed subsets. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 328, no.,   
  
pp. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108461*](https://doi.org/10.1016/j.topol.2023.108461)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB24 | JAKUBÍK, Ján - PRINGEROVÁ, G. Representations of cyclically ordered groups. In Časopis pro pěstování matematiky, 1988, vol. 113, s. 184-196. ISSN 0862-7959. |

Citácie:

*1. [1.1] ROSJANUARDI, Rizky - GOZALI, Sumanang Muhtar - ALBANIA, Imam Nugraha. c-Convex Subgroups of Finite Dimensional Cyclically Ordered Free Abelian Groups. In INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE, 2023, vol. 18, no. 1, pp. 37-45. ISSN 1814-0424., Registrované v: WOS*

*2. [1.2] GOZALI, Sumanang Muhtar - ROSJANUARDI, Rizky - ALBANIA, I. N. On c-convex subgroups of Z \ oplus Z as a cyclically ordered group. In AIP Conference Proceedings, 2023-06-13, 2614, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0127481*](https://doi.org/10.1063/5.0127481)*, Registrované v: SCOPUS*

*3. [1.2] MAGHFIRA, Shely Mutiara - WIDODO, Nugroho Dwi - ROSJANUARDI, Rizky - GOZALI, Sumanang Muhtar. Linearly ordered subgroup of a cyclically ordered group which is not linear. In AIP Conference Proceedings, 2023-10-17, 2734, 1, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0155391*](https://doi.org/10.1063/5.0155391)*, Registrované v: SCOPUS*

*4. [1.2] ROSJANUARDI, Rizky. Cyclically ordered groups and their operator algebras. In AIP Conference Proceedings, 2023-10-17, 2734, 1, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0155838*](https://doi.org/10.1063/5.0155838)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB25 | JENČOVÁ, Anna - PETZ, D. Sufficiency in quantum statistical inference. A survey with examples. In Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2006, vol. 9, p. 331-351. ISSN 0219-0257. |

Citácie:

*1. [1.1] VARDIAN, N. Black hole interior Petz map reconstruction and Papadodimas-Raju proposal. In JOURNAL OF HIGH ENERGY PHYSICS. ISSN 1029-8479, OCT 4 2023, no. 10, art. nr. 24. Dostupné na:* [*https://doi.org/10.1007/JHEP10(2023)024*](https://doi.org/10.1007/jhep10(2023)024)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB26 | KARABÁŠ, Ján - NEDELA, Roman. Archimedean solids of genus two. In Electronic Notes in Discrete Mathematics, 2007, vol. 28, s. 331-339. (2006: 0.152 - SJR, Q4 - SJR). ISSN 1571-0653. |

Citácie:

*1. [1.1] SINGH, Yogendra - TIWARI, Anand Kumar. Doubly semi-equivelar maps on the plane and the torus. In AKCE INTERNATIONAL JOURNAL OF GRAPHS AND COMBINATORICS, 2022, vol. 19, no. 3, pp. 296-310. ISSN 0972-8600. Dostupné na:* [*https://doi.org/10.1080/09728600.2022.2146549*](https://doi.org/10.1080/09728600.2022.2146549)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB27 | KUZNETSOV, E. D. - ROSAEV, A. - PLÁVALOVÁ, Eva - SAFRONOVA, V. S. Age estimation of asteroid pair with close orbits. In INASAN Science Reports, 2020, vol. 5, no. 2, p. 52-55. ISSN 2712-8318. Dostupné na: [https://doi.org/10.26087/INASAN.2020.5.2.003](https://doi.org/10.26087/inasan.2020.5.2.003) |

Citácie:

*1. [1.2] MINKER, K. - CARRY, B. Deficit of primitive compositions in binary asteroids and pairs. In Astronomy and Astrophysics, 2023-04-01, 672, pp. ISSN 00046361. Dostupné na:* [*https://doi.org/10.1051/0004-6361/202245538*](https://doi.org/10.1051/0004-6361/202245538)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB28 | LAŠŠÁK, Miroslav - PORUBSKÝ, Štefan. Fermat-Euler theorem in algebraic number fields. In Journal of Number Theory, 1996, vol. 60, no. 2, p. 254-290. ISSN 0022-314X. |

Citácie:

*1. [1.1] AGGARWAL, Akshit - SWAIN, Srinibas. Blind Two Party ECDSA Signing Based Homomorphic Encryption over Message Passing. In 2022 IEEE/ACS 19TH INTERNATIONAL CONFERENCE ON COMPUTER SYSTEMS AND APPLICATIONS (AICCSA), 2022, vol., no., pp. ISSN 2161-5322. Dostupné na:* [*https://doi.org/10.1109/AICCSA56895.2022.10017657*](https://doi.org/10.1109/aiccsa56895.2022.10017657)*, Registrované v: WOS*

*2. [1.1] DE MELO HERNANDEZ, Fernanda D. - HERNANDEZ MELO, Cesar A. - TAPIA-RECILLAS, Horacio. Fermat';s little theorem and Euler';s theorem in a class of rings. In COMMUNICATIONS IN ALGEBRA, 2022, vol. 50, no. 7, pp. 3064-3078. ISSN 0092-7872. Dostupné na:* [*https://doi.org/10.1080/00927872.2021.2024841*](https://doi.org/10.1080/00927872.2021.2024841)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB29 | LI, Mengmeng - WANG, JinRong - FEČKAN, Michal\*\*. Periodic solutions for impulsive differential systems. In Communications in Mathematical Analysis, 2018, vol. 21, no. 2, p. 35-46. (2017: 0.145 - SJR, Q4 - SJR). ISSN 1938-9787. |

Citácie:

*1. [1.1] ALVAREZ, E. - DíAZ, S. - GRAU, R. (ω, Q)-periodic mild solutions for a class of semilinear abstract differential equations and applications to Hopfield-type neural network model. In ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK. ISSN 0044-2275, APR 2023, vol. 74, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00033-023-01943-9*](https://doi.org/10.1007/s00033-023-01943-9)*, Registrované v: WOS*

*2. [1.1] LARROUY, J. - N'GUéRéKATA, G.M. (ω, c)-periodic and asymptotically (ω, c)-periodic mild solutions to fractional Cauchy problems. In APPLICABLE ANALYSIS. ISSN 0003-6811, FEB 11 2023, vol. 102, no. 3, p. 958-976. Dostupné na:* [*https://doi.org/10.1080/00036811.2021.1967332*](https://doi.org/10.1080/00036811.2021.1967332)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB30 | MAJERNÍK, Vladimír - OPATRNÝ, T. Entropic uncertainty relations for a quantum oscillator. In Journal of Physics A: Mathematical and General, 1996, vol. 29, s. 2187-2197. ISSN 0305-4470. |

Citácie:

*1. [1.1] ALDOSARI, F.M. - ALSAHLI, A.M. - MOHAMED, A.B.A. - RAHMAN, A. Control of Quantum-Memory Induced by Generated Thermal XYZ-Heisenberg Entanglement: y-Component DM Interaction. In ANNALEN DER PHYSIK. ISSN 0003-3804, JUL 2023, vol. 535, no. 7. Dostupné na:* [*https://doi.org/10.1002/andp.202300094*](https://doi.org/10.1002/andp.202300094)*, Registrované v: WOS*

*2. [1.1] BALLESTEROS, A. - GUTIERREZ-SAGREDO, I. Shannon information entropy for a quantum nonlinear oscillator on a space of non-constant curvature. In PHYSICA D-NONLINEAR PHENOMENA. ISSN 0167-2789, MAR 2023, vol. 445. Dostupné na:* [*https://doi.org/10.1016/j.physd.2022.133618*](https://doi.org/10.1016/j.physd.2022.133618)*, Registrované v: WOS*

*3. [1.1] FLOERCHINGER, S. - HAAS, T. - SCHRöFL, M. Relative entropic uncertainty relation for scalar quantum fields. In SCIPOST PHYSICS. ISSN 2542-4653, MAR 2022, vol. 12, no. 3. Dostupné na:* [*https://doi.org/10.21468/SciPostPhys.12.3.089*](https://doi.org/10.21468/scipostphys.12.3.089)*, Registrované v: WOS*

*4. [1.1] GIL-BARRERA, C.A. - CARRILLO, R.S. - SUN, G.H. - DONG, S.H. Quantum Information Entropies on Hyperbolic Single Potential Wells. In ENTROPY. MAY 2022, vol. 24, no. 5. Dostupné na:* [*https://doi.org/10.3390/e24050604*](https://doi.org/10.3390/e24050604)*, Registrované v: WOS*

*5. [1.1] IQBAL, S. Information entropy, fractional revivals and Schrodinger equation with position-dependent mass. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2022, vol. 97, no. 1. Dostupné na:* [*https://doi.org/10.1088/1402-4896/ac4633*](https://doi.org/10.1088/1402-4896/ac4633)*, Registrované v: WOS*

*6. [1.1] JANSEN, N.D. - LOUCKS, M. - GILBERT, S. - FLEMING-DITTENBER, C. - EGBERT, J. - HUNT, K.L.C. Shannon and von Neumann entropies of multi-qubit Schrodinger';s cat states. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, MAR 30 2022, vol. 24, no. 13, p. 7666-7681. Dostupné na:* [*https://doi.org/10.1039/d1cp05255a*](https://doi.org/10.1039/d1cp05255a)*, Registrované v: WOS*

*7. [1.1] SANTANA-CARRILLO, R. - GONZáLEZ-FLORES, J.S. - MAGAñA-ESPINAL, E. - QUEZADA, L.F. - SUN, G.H. - DONG, S.H. Quantum Information Entropy of Hyperbolic Potentials in Fractional Schrodinger Equation. In ENTROPY. NOV 2022, vol. 24, no. 11. Dostupné na:* [*https://doi.org/10.3390/e24111516*](https://doi.org/10.3390/e24111516)*, Registrované v: WOS*

*8. [1.1] SANTANA-CARRILLO, R. - LEóN-MONTIEL, R.D. - SUN, G.H. - DONG, S.H. Quantum Information Entropy for Another Class of New Proposed Hyperbolic Potentials. In ENTROPY. SEP 2023, vol. 25, no. 9. Dostupné na:* [*https://doi.org/10.3390/e25091296*](https://doi.org/10.3390/e25091296)*, Registrované v: WOS*

*9. [1.1] SANTANA-CARRILLO, R. - PETO, J.M.V. - SUN, G.H. - DONG, S.H. Quantum Information Entropy for a Hyperbolic Double Well Potential in the Fractional Schrodinger Equation. In ENTROPY. JUL 2023, vol. 25, no. 7. Dostupné na:* [*https://doi.org/10.3390/e25070988*](https://doi.org/10.3390/e25070988)*, Registrované v: WOS*

*10. [1.1] SARSWAT, S. - AISWARYA, R. - JOSE, J. Shannon entropy of resonant scattered state in the e-C60 elastic collision. In JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS. ISSN 0953-4075, MAR 2 2022, vol. 55, no. 5. Dostupné na:* [*https://doi.org/10.1088/1361-6455/ac5719*](https://doi.org/10.1088/1361-6455/ac5719)*, Registrované v: WOS*

*11. [1.1] SCHUERGER, P. - SCHAUPP, T. - KAISER, D. - ENGELS, B. - ENGEL, V. Wave packet dynamics in an harmonic potential disturbed by disorder: Entropy, uncertainty, and vibrational revivals. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, FEB 7 2022, vol. 156, no. 5. Dostupné na:* [*https://doi.org/10.1063/5.0079938*](https://doi.org/10.1063/5.0079938)*, Registrované v: WOS*

*12. [1.1] SCHüRGER, P. - ENGEL, V. Differential Shannon entropies and correlation measures for Born-Oppenheimer electron-nuclear dynamics: numerical results and their analytical interpretation. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, OCT 25 2023, vol. 25, no. 41, p. 28373-28381. Dostupné na:* [*https://doi.org/10.1039/d3cp03573e*](https://doi.org/10.1039/d3cp03573e)*, Registrované v: WOS*

*13. [1.1] SCHüRGER, P. - ENGEL, V. Information Theoretical Approach to Coupled Electron-Nuclear Wave Packet Dynamics: Time-Dependent Differential Shannon Entropies. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS. ISSN 1948-7185, JAN 19 2023, vol. 14, no. 2, p. 334-339. Dostupné na:* [*https://doi.org/10.1021/acs.jpclett.2c03635*](https://doi.org/10.1021/acs.jpclett.2c03635)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB31 | MARKOVA, A. - RIEČAN, Beloslav. On the double g-integral. In Novi Sad Journal of Mathematics, 1996, s. 67-70. ISSN 0352-0900. |

Citácie:

*1. [1.1] JAIN, Pankaj. Classical inequalities for pseudo-integral. In GEORGIAN MATHEMATICAL JOURNAL, 2022, vol. 29, no. 3, pp. 373-385. ISSN 1072-947X. Dostupné na:* [*https://doi.org/10.1515/gmj-2021-2136*](https://doi.org/10.1515/gmj-2021-2136)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB32 | MEDVEĎ, Milan - POSPÍŠIL, Michal. Representation and stability of solutions of systems of difference equations with multiple delays and linear parts defined by pairwise permutable matrices. In Communications in Applied Analysis, 2013, vol. 17, no. 1, p. 21-46. ISSN 1083-2564. |

Citácie:

*1. [1.2] MORÁVKOVÁ, Blanka - DIBLÍK, Josef. Solutions of Linear Discrete Systems with a Single Delay and Impulses. In AIP Conference Proceedings, ICNAAM 2021 2023-09-01, 2849, 1, art. nr. 370003. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0162562*](https://doi.org/10.1063/5.0162562)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB33 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Extremal k-lipschitz t-conorms. In International Journal of uncertainty fuzziness and knowledge-based systems, 2006, vol. 14, no. 3, p. 247-257. |

Citácie:

*1. [1.1] LI, G. - ZHANG, L.Z. - WANG, J. - LI, Z.B. Some results on the weak dominance between t-norms and t-conorms. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, SEP 15 2023, vol. 467, art. nr. 108487. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.02.008*](https://doi.org/10.1016/j.fss.2023.02.008)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB34 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. The structure of n-contractive t-norms. In International Journal of General Systems, 2005, vol. 34, p. 625-637. ISSN 0308-1079. |

Citácie:

*1. [1.1] ÇAYLI, G.D. - ERTUGRUL, Ü - KARAçAL, F. Some further construction methods for uninorms on bounded lattices. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS. ISSN 0308-1079, MAY 19 2023, vol. 52, no. 4, p. 414-442. Dostupné na:* [*https://doi.org/10.1080/03081079.2022.2132492*](https://doi.org/10.1080/03081079.2022.2132492)*, Registrované v: WOS*

*2. [1.1] ÇAYLI, G.D. An alternative construction of uninorms on bounded lattices. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS. ISSN 0308-1079, JUL 4 2023, vol. 52, no. 5, p. 574-596. Dostupné na:* [*https://doi.org/10.1080/03081079.2023.2196421*](https://doi.org/10.1080/03081079.2023.2196421)*, Registrované v: WOS*

*3. [1.2] MESIAR, Radko - KOLESÁROVÁ, Anna - STUPŇANOVÁ, Andrea. On a new classification of triangular norms. In Fuzzy Sets and Systems, 2023-08-30, 466, art. nr. 108393. ISSN 01650114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.09.002*](https://doi.org/10.1016/j.fss.2022.09.002)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB35 | MICHALÍKOVÁ, Alžbeta. Intuitionistic fuzzy sets and their use in image classification. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 60-66. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2019.25.2.60-66> |

Citácie:

*1. [1.2] SOTIROV, Sotir - KOSTADINOV, Todor - HRISTOV, Stoyan. An Intuitionistic Fuzzy Estimation Approach on a Magnetic Resonance Imaging. In Lecture Notes in Networks and Systems, 2023-01-01, 658 LNNS, pp. 47-52. ISSN 23673370. Dostupné na:* [*https://doi.org/10.1007/978-3-031-31069-0\_6*](https://doi.org/10.1007/978-3-031-31069-0_6)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB36 | OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers. In Uniform Distribution Theory, 2016, vol. 11, no. 1, p. 23-45. ISSN 1336-913X. Dostupné na internete: [https://math.boku.ac.at/udt/vol11/no1/03OhkuStrauch.pdf](https://math.boku.ac.at/udt/vol11/no1/03ohkustrauch.pdf) |

Citácie:

*1. [1.1] BERGER, A. - RAHMATIDEHKORDI, A. Circling the uniform distribution. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS. ISSN 0022-247X, NOV 15 2023, vol. 527, no. 2. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127495*](https://doi.org/10.1016/j.jmaa.2023.127495)*, Registrované v: WOS*

*2. [4.1] BERGER, A. A Note on the Distributions of (log) mod 1. In Uniform Distribution Theory, 2022, Vol. 17, no. 2, p. 77-100, DOI: 10.2478/udt-2022-0013.*

|  |  |
| --- | --- |
| ADEB37 | OHKUBO, Yukio - STRAUCH, Oto\*. Distribution of leading digits of numbers II. In Uniform Distribution Theory, 2019, vol. 14, no. 1, p. 19-42. ISSN 1336-913X. Dostupné na: <https://doi.org/10.2478/udt-2019-0003> |

Citácie:

*1. [1.1] BERGER, A. - RAHMATIDEHKORDI, A. Circling the uniform distribution. In JOURNAL OF MATHEMATICAL ANALYSIS AND   
  
APPLICATIONS. ISSN 0022-247X, NOV 15 2023, vol. 527, no. 2. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2023.127495*](https://doi.org/10.1016/j.jmaa.2023.127495)*, Registrované v: WOS*

*2. [4.1] BERGER, A. A Note on the Distributions of (log) mod 1. In Uniform Distribution Theory, 2022, Vol. 17, no. 2, p. 77-100, DOI: 10.2478/udt-2022-0013.*

|  |  |
| --- | --- |
| ADEB38 | PÁZMAN, Andrej. Nonlineart least squares - uniqueness versus ambiguity. In Statistics A, Journal of Theoretical and Applied Statistics, 1984, vol. 15, s. 323-336. ISSN 0233-1888. |

Citácie:

*1. [1.1] XU, Peiliang - SHI, Yun. Unidentifiability of errors-in-variables models with rank deficiency from measurements. In MEASUREMENT, 2022, vol. 192, no., pp. ISSN 0263-2241. Dostupné na:* [*https://doi.org/10.1016/j.measurement.2022.110853*](https://doi.org/10.1016/j.measurement.2022.110853)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB39 | POSPÍŠIL, Michal. Note on fractional difference equations with periodic and S-asymptotically periodic right-hand side. In Nonlinear Oscillations, 2021, vol. 24, no. 1, art. no. 1339, p. 99-109. ISSN 1562-3076. |

Citácie:

*1. [1.1] BOUZERAA, S. E. I. - BOUOUDEN, R. - ABDELOUAHAB, M. S. Fractional logistic map with fixed memory length. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, 2023, vol. 52, no. 6, pp. 653-663. ISSN 0308-1079. Dostupné na:* [*https://doi.org/10.1080/03081079.2023.2201001*](https://doi.org/10.1080/03081079.2023.2201001)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB40 | PULMANNOVÁ, Sylvia. Commutators in orthomodular lattices. In Demonstratio Mathematica, 1985, vol. 18, no. 1, p. 187-208. ISSN 2391-4661. |

Citácie:

*1. [1.1] OZAWA, M. - KHRENNIKOV, A. Nondistributivity of human logic and violation of response replicability effect in cognitive psychology. In JOURNAL OF MATHEMATICAL PSYCHOLOGY. ISSN 0022-2496, FEB 2023, vol. 112. Dostupné na:* [*https://doi.org/10.1016/j.jmp.2022.102739*](https://doi.org/10.1016/j.jmp.2022.102739)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB41 | RIEČAN, Beloslav - ATANASSOV, Krassimir T. Operation division by n over intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2010, vol. 16, no. 4, p. 1-4. ISSN 1310-4926. |

Citácie:

*1. [1.2] TRANEVA, Velichka - TRANEV, Stoyan. Intuitionistic fuzzy seasonal variation analysis of marine biotoxin distribution in the Black Sea. In Journal of Physics: Conference Series, 2023-01-01, 2675, 1, pp. ISSN 17426588. Dostupné na:* [*https://doi.org/10.1088/1742-6596/2675/1/012007*](https://doi.org/10.1088/1742-6596/2675/1/012007)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB42 | RIEČAN, Beloslav. On the Kurzweil integral in compact topological spaces. In Radovi Matematičky, 1986, vol. 2, s. 151-163. ISSN 0352-6100. |

Citácie:

*1. [1.1] KALITA, Hemanta - HAZARIKA, Bipan. Kluvanek-Lewis-Henstock integral in Banach spaces. In BOLLETTINO DELLA UNIONE MATEMATICA ITALIANA, 2023, vol., no., pp. ISSN 1972-6724. Dostupné na:* [*https://doi.org/10.1007/s40574-023-00403-6*](https://doi.org/10.1007/s40574-023-00403-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADEB43 | WIMMER, Gejza - ALTMANN, G. The theory of word length: Some results and generalizations. In Glottometrika, 1996, vol. 15, s. 112-133. |

Citácie:

*1. [1.1] ZAMECNIK, L. Investigations of Explanatory Strategies in Linguistics. In INVESTIGATIONS OF EXPLANATORY STRATEGIES IN LINGUISTICS, 2023, vol., no., pp. 1-287., Registrované v: WOS*

*2. [1.2] TOLCHINSKY, Liliana - BERMAN, Ruth A. Growing into Language: Developmental Trajectories and Neural Underpinnings. In Growing into Language: Developmental Trajectories and Neural Underpinnings, 2023-01-01, pp. 1-352. Dostupné na:* [*https://doi.org/10.1093/oso/9780192849984.001.0001*](https://doi.org/10.1093/oso/9780192849984.001.0001)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADEB44 | WIMMER, Gejza - KOEHLER, R. - GROTJAHN, R. - ALTMANN, G. Towards a theory of word length distribution. In Journal of Quantitative Linguistics, 1994, vol. 1, p. 98-106. |

Citácie:

*1. [1.1] BEDBUR, S. - KAMPS, U. Uniformly most powerful unbiased tests for the dispersion parameter of the Conway-Maxwell-Poisson distribution. In STATISTICS & PROBABILITY LETTERS, 2023, vol. 196, no., pp. ISSN 0167-7152. Dostupné na:* [*https://doi.org/10.1016/j.spl.2023.109801*](https://doi.org/10.1016/j.spl.2023.109801)*, Registrované v: WOS*

*2. [1.1] GARCIA, Enrique J. Vercher - LORENZO, Manuel Bullejos. Analysis of Languages with Extreme Values in the Indices of Relativity, Density and Informative Efficiency: The Morphological and Genetic Typology and the Complexity of the Phonetic-Phonological System in the Study of the Number and Length of Words and Phonemes. In REVISTA SIGNOS, 2023, vol. 56, no. 113, pp. 545-571. ISSN 0718-0934. Dostupné na:* [*https://doi.org/10.4067/S0718-09342023000300545*](https://doi.org/10.4067/s0718-09342023000300545)*, Registrované v: WOS*

*3. [1.1] JACOBS, Cassandra L. - MACDONALD, Maryellen C. A chimpanzee by any other name: The contributions of utterance context and information density on word choice. In COGNITION, 2023, vol. 230, no., pp. ISSN 0010-0277. Dostupné na:* [*https://doi.org/10.1016/j.cognition.2022.105265*](https://doi.org/10.1016/j.cognition.2022.105265)*, Registrované v: WOS*

*4. [1.1] ZHONG, Xiaoshi - YU, Xiang - CAMBRIA, Erik - RAJAPAKSE, Jagath C. Marshall-Olkin power-law distributions in length-frequency of entities. In KNOWLEDGE-BASED SYSTEMS, 2023, vol. 279, no., pp. ISSN 0950-7051. Dostupné na:* [*https://doi.org/10.1016/j.knosys.2023.110942*](https://doi.org/10.1016/j.knosys.2023.110942)*, Registrované v: WOS*

*5. [3.1] SAENTHONG, P. - SEENOI, P. Discrete Odd Inverse Pareto Exponential Distribution: Properties, Estimation and Applications. In Progress in Applied Science and Technology. Vol. 13, no. 3. 2023. Dostupné na* [*https://doi.org/10.60101/past.2023.250004*](https://doi.org/10.60101/past.2023.250004)

|  |  |
| --- | --- |
| ADEB45 | WIMMER, Gejza - ALTMANN, G. Review Article: On Vocabulary Richness. In Journal of Quantitative Linguistics, 1999, vol. 6, s. 1-9. ISSN 0929-6174. |

Citácie:

*1. [1.1] CEBRAL-LOUREDA, Manuel - HERNANDEZ-BAQUEIRO, Alberto - TAMES-MUNOZ, Enrique. A text mining analysis of human flourishing on Twitter. In SCIENTIFIC REPORTS, 2023, vol. 13, no. 1, pp. ISSN 2045-2322. Dostupné na:* [*https://doi.org/10.1038/s41598-023-30209-7*](https://doi.org/10.1038/s41598-023-30209-7)*, Registrované v: WOS*

*2. [3.1] ALSHEHRI, Ahmad. Writing proficiency of Saudi EFL learners: Examining the impact of Lexical diversity. In Journal of Language and Linguistic Studies. 2022. ISSN 1305-578X. Vol. 18 (2022).*

**ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADFA01 | FEČKAN, Michal. On a certain type of functional differential equations. In Mathematica Slovaca, 1993, vol. 43, no. 1, p. 39-43. ISSN 0139-9918. |

Citácie:

*1. [1.1] ALZABUT, Jehad - KHUDDUSH, Mahammad - SELVAM, A. George Maria - VIGNESH, D. Second Order Iterative Dynamic Boundary Value Problems with Mixed Derivative Operators with Applications. In QUALITATIVE   
  
THEORY OF DYNAMICAL SYSTEMS, 2023, vol. 22, no. 1, pp. ISSN 1575-5460. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00736-1*](https://doi.org/10.1007/s12346-022-00736-1)*, Registrované v: WOS*

*2. [1.1] EL-SAYED, A. M. A. - GAMA, Reda - EBEAD, H. R. SOLVABILITY OF NONLINEAR FUNCTIONAL DIFFERENTIAL EQUATIONS WITH STATE-DEPENDENT DERIVATIVES. In METHODS OF FUNCTIONAL ANALYSIS AND TOPOLOGY, 2023, vol. 29, no. 1, pp. 30-38. ISSN 1029-3531. Dostupné na:* [*https://doi.org/10.31392/MFAT-npu26\_1-2.2023.03*](https://doi.org/10.31392/mfat-npu26_1-2.2023.03)*, Registrované v: WOS*

*3. [1.1] EL-SAYED, A. M. A. - HASHEM, H. H. G. A state-dependent Chandrasekhar integral equation. In INTERNATIONAL JOURNAL OF NONLINEAR ANALYSIS AND APPLICATIONS, 2022, vol. 13, no. 2, pp. 3049-3056. ISSN 2008-6822. Dostupné na:* [*https://doi.org/10.22075/ijnaa.2022.23027.2461*](https://doi.org/10.22075/ijnaa.2022.23027.2461)*, Registrované v: WOS*

*4. [1.1] GHALIA, Samia - AFFANE, Doria. Control problem governed by an iterative differential inclusion. In RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO, 2023, vol. 72, no. 4, pp. 2621-2642. ISSN 0009-725X. Dostupné na:* [*https://doi.org/10.1007/s12215-022-00819-7*](https://doi.org/10.1007/s12215-022-00819-7)*, Registrované v: WOS*

*5. [1.1] GHALIA, Samia - AFFANE, Doria. On the Attainable Set of Iterative Differential Inclusions. In MATHEMATICA SLOVACA, 2023, vol. 73, no. 6, pp. 1479-1498. ISSN 0139-9918. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0107*](https://doi.org/10.1515/ms-2023-0107)*, Registrované v: WOS*

*6. [1.1] HASSAN, Taher S. - AHMED, Reda Gamal - EL-SAYED, Ahmed M. A. - EL-NABULSI, Rami Ahmad - MOAAZ, Osama - MESMOULI, Mouataz Billah. Solvability of a State-Dependence Functional Integro-Differential Inclusion with Delay Nonlocal Condition. In MATHEMATICS, 2022, vol. 10, no. 14, pp. Dostupné na:* [*https://doi.org/10.3390/math10142420*](https://doi.org/10.3390/math10142420)*, Registrované v: WOS*

*7. [1.1] KAUFMANN, Eric R. - WHALEY, Zach. Existence and uniqueness of solutions of a fourth-order boundary value problem with non-homogeneous boundary conditions. In ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, 2023, vol., no. 59, pp. 1-11. ISSN 1417-3875. Dostupné na:* [*https://doi.org/10.14232/ejqtde.2023.1.59*](https://doi.org/10.14232/ejqtde.2023.1.59)*, Registrované v: WOS*

*8. [1.1] KAUFMANN, Eric R. A FOURTH-ORDER ITERATIVE BOUNDARY VALUE PROBLEM WITH LIDSTONE BOUNDARY CONDITIONS. In DIFFERENTIAL EQUATIONS & APPLICATIONS, 2022, vol. 14, no. 2, pp. 305-312. ISSN 1847-120X. Dostupné na:* [*https://doi.org/10.7153/dea-2022-14-21*](https://doi.org/10.7153/dea-2022-14-21)*, Registrované v: WOS*

*9. [1.1] ZHENG, Famei - WANG, Xiaojing - CHENG, Xiwang - DU, Bo. Infinitely Many Positive Solutions to Nonlinear First-Order Iterative Systems of Singular BVPs on Time Scales. In SYMMETRY-BASEL, 2023, vol. 15, no. 8, pp. Dostupné na:* [*https://doi.org/10.3390/sym15081524*](https://doi.org/10.3390/sym15081524)*, Registrované v: WOS*

*10. [1.1] ZHOU, Jun. Solutions of mixed-type functional differential equations with state-dependence. In JOURNAL OF DIFFERENTIAL EQUATIONS, 2022, vol. 312, no., pp. 148-175. ISSN 0022-0396. Dostupné na:* [*https://doi.org/10.1016/j.jde.2021.12.017*](https://doi.org/10.1016/j.jde.2021.12.017)*, Registrované v: WOS*

*11. [1.2] CHERAIET, Soumaya - BOUAKKAZ, Ahlème - KHEMIS, Rabah. Some new findings on bounded solution of a third order iterative boundary-value problem. In Journal of Interdisciplinary Mathematics, 2022-01-01, 25, 4, pp. 1153-1162. ISSN 09720502. Dostupné na:* [*https://doi.org/10.1080/09720502.2021.1995215*](https://doi.org/10.1080/09720502.2021.1995215)*, Registrované v: SCOPUS*

*12. [1.2] EL-SAYED, Ahmed M.A. - HASHEM, Hind H.G. - AL-ISSA, Shorouk M. ANALYTICAL STUDY OF SOME SELF-REFERRED OR STATE DEPENDENT FUNCTIONAL EQUATIONS. In Methods of Functional Analysis and Topology,   
  
2022-01-01, 28, 1, pp. 50-57. ISSN 10293531. Dostupné na:* [*https://doi.org/10.31392/MFAT-npu26\_1.2022.05*](https://doi.org/10.31392/mfat-npu26_1.2022.05)*, Registrované v: SCOPUS*

*13. [1.2] KHUDDUSH, Mahammad - PRASAD, K. Rajendra. Nonlinear two-point iterative functional boundary value problems on time scales. In Journal of Applied Mathematics and Computing, 2022-12-01, 68, 6, pp. 4241-4251. ISSN 15985865. Dostupné na:* [*https://doi.org/10.1007/s12190-022-01703-4*](https://doi.org/10.1007/s12190-022-01703-4)*, Registrované v: SCOPUS*

*14. [1.2] MIYAMOTO, Roland - SANDER, Jürgen. Solving the Iterative Differential Equation 1−γg′= gsup−1/sup. In Number Theory in Memory of Eduard Wirsing, 2023-01-01, pp. 223-236. Dostupné na:* [*https://doi.org/10.1007/978-3-031-31617-3\_14*](https://doi.org/10.1007/978-3-031-31617-3_14)*, Registrované v: SCOPUS*

*15. [1.2] ZHOU, Jun - SHEN, Jun. POSITIVE SOLUTIONS OF ITERATIVE FUNCTIONAL DIFFERENTIAL EQUATIONS AND APPLICATION TO MIXED-TYPE FUNCTIONAL DIFFERENTIAL EQUATIONS. In Discrete and Continuous Dynamical Systems Series B, 2022-07-01, 27, 7, pp. 3605-3624. ISSN 15313492. Dostupné na:* [*https://doi.org/10.3934/dcdsb.2021198*](https://doi.org/10.3934/dcdsb.2021198)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFA02 | JAKUBÍKOVÁ-STUDENOVSKÁ, Danica - PÓCS, Jozef. Lattice of retracts of monounary algebras. In Mathematica Slovaca, 2011, vol. 61, no. 1, s. 107-125. (2010: 0.316 - IF, Q4 - JCR, 0.257 - SJR, Q3 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-010-0063-1> |

Citácie:

*1. [1.2] KOZHUKHOV, I. B. - MIKHALEV, A. V. Acts Over Semigroups. In Journal of Mathematical Sciences (United States), 2023-01-01, 269, 3, pp. 362-401. ISSN 10723374. Dostupné na:* [*https://doi.org/10.1007/s10958-023-06287-3*](https://doi.org/10.1007/s10958-023-06287-3)*, Registrované v: SCOPUS*

**ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných**

|  |  |
| --- | --- |
| ADFB01 | BORSÍK, Ján - DOBOŠ, J. Functions whose composition with every metric is a metric. In Mathematica Slovaca, 1981, vol. 31, p. 3-12. ISSN 0139-9918. |

Citácie:

*1. [2.2] PRINYASART, Thanakorn - SAMPHAVAT, Suchat. Remarks on w-distances and metric-preserving functions. In Mathematica Slovaca, 2023-02-01, 73, 1, pp. 69-78. ISSN 01399918. Dostupné na:* [*https://doi.org/10.1515/ms-2023-0008*](https://doi.org/10.1515/ms-2023-0008)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB02 | BORSÍK, Ján. Sums, differences, products and quotients of closed graph functions. In Tatra Mountains Mathematical Publications, 2002, vol. 24, p. 117-123. ISSN 1210-3195. |

Citácie:

*1. [1.1] KOSMAN, J. Extensions of Functions with a Closed Graph and Quasi-continuous Functions with a Closed Graph from Dense Subspaces. In BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY. ISSN 1017-060X, DEC 2023, vol. 49, no. 6. Dostupné na:* [*https://doi.org/10.1007/s41980-023-00824-1*](https://doi.org/10.1007/s41980-023-00824-1)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB03 | BORSÍK, Ján - DOBOŠ, J. On a product of metric spaces. In Mathematica Slovaca, 1981, vol. 31, p. 193-205. ISSN 0139-9918. |

Citácie:

*1. [1.1] BEJINES, C. - ARDANZA-TREVIJANO, S. - CHASCO, M. J. - ELORZA, J. Aggregation of indistinguishability operators. In FUZZY SETS AND SYSTEMS, 2022, vol. 446, no., pp. 53-67. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2021.04.023*](https://doi.org/10.1016/j.fss.2021.04.023)*, Registrované v: WOS*

*2. [1.1] GONZALEZ-HEDSTROM, Juan-De-Dios - MINANA, Juan-Jose - VALERO, Oscar. Relaxed Indistinguishability Relations and Relaxed Metrics: The Aggregation Problem. In AXIOMS, 2022, vol. 11, no. 9, pp. Dostupné na:* [*https://doi.org/10.3390/axioms11090431*](https://doi.org/10.3390/axioms11090431)*, Registrované v: WOS*

*3. [1.1] GOPAL, Dhananjay - VALERO, Oscar - YADAV, Shubham. A characterisation of weightable quasi-metric generating functions. In QUAESTIONES MATHEMATICAE, 2022, vol. 45, no. 11, pp. 1683-1698. ISSN 1607-3606. Dostupné na:* [*https://doi.org/10.2989/16073606.2021.1968531*](https://doi.org/10.2989/16073606.2021.1968531)*, Registrované v: WOS*

*4. [1.1] SUN, Lijun - ZHAO, Chen - LI, Gang. Aggregation of S-generalized Distances. In ADVANCED INTELLIGENT COMPUTING TECHNOLOGY AND APPLICATIONS, ICIC 2023, PT V, 2023, vol. 14090, no., pp. 527-536. ISSN 2945-9133. Dostupné na:* [*https://doi.org/10.1007/978-981-99-4761-4\_45*](https://doi.org/10.1007/978-981-99-4761-4_45)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB04 | BORSÍK, Ján - ŠALÁT, Tibor. On F-continuity of real functions. In Tatra Mountains Mathematical Publications, 1993, vol. 2, s. 37-42. ISSN 1210-3195. |

Citácie:

*1. [1.1] BOCCUTO, Antonio - SAMBUCINI, Anna Rita. Abstract Integration with Respect to Measures and Applications to Modular Convergence in Vector Lattice Setting. In RESULTS IN MATHEMATICS, 2023, vol. 78, no. 1, pp. ISSN 1422-6383. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01776-4*](https://doi.org/10.1007/s00025-022-01776-4)*, Registrované v: WOS*

*2. [1.2] MUCUK, Osman - BEHRAM, Shanza - ÇAKALLI, Hüseyin. G-Connectedness for Product Spaces. In AIP Conference Proceedings, 2022-11-07, 2483, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0115542*](https://doi.org/10.1063/5.0115542)*, Registrované v: SCOPUS*

*3. [1.2] MUCUK, Osman - BEHRAM, Shanza. G-Sequential Methods in Product Spaces. In AIP Conference Proceedings, 2022-11-07, 2483, pp. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0115533*](https://doi.org/10.1063/5.0115533)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB05 | BORSÍK, Ján. Generalized oscillations for generalized continuities. In Tatra Mountains Mathematical Publications, 2011, vol. 49, s. 119-125. (2010: 0.146 - SJR, Q4 - SJR). ISSN 1210-3195. Dostupné na: <https://doi.org/10.2478/v10127-011-0031-3> |

Citácie:

*1. [1.1] APONTE, E. - SUBRAMANIAN, V. - MACÍAS, J. - KRISHNAN, M. On Semi-Continuous and Clisquish Functions in Generalized Topological Spaces. In AXIOMS. FEB 2023, vol. 12, no. 2. Dostupné na:* [*https://doi.org/10.3390/axioms12020130*](https://doi.org/10.3390/axioms12020130)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB06 | BOSÁK, Juraj. Partially directed Moore graphs. In Mathematica Slovaca, 1979, vol. 29, no. 2, p. 181-196. ISSN 0139-9918. |

Citácie:

*1. [1.1] CERESUELA, J. M. - LOPEZ, N. - CHEMISANA, D. On mixed radial Moore graphs of diameter 3. In DISCRETE MATHEMATICS, 2023, vol. 346, no. 9, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2023.113525*](https://doi.org/10.1016/j.disc.2023.113525)*, Registrované v: WOS*

*2. [1.1] DALFO, Cristina - FIOL, Miquel Angel. Moore mixed graphs from Cayley graphs. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS, 2023, vol. 11, no. 1, pp. 183-195. ISSN 2338-2287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.1.15*](https://doi.org/10.5614/ejgta.2023.11.1.15)*, Registrované v: WOS*

*3. [1.1] TUITE, James - ERSKINE, Grahame. On Networks with Order Close to the Moore Bound. In GRAPHS AND COMBINATORICS, 2022, vol. 38, no. 5, pp.   
  
ISSN 0911-0119. Dostupné na:* [*https://doi.org/10.1007/s00373-022-02535-6*](https://doi.org/10.1007/s00373-022-02535-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB07 | DOBRAKOV, Ivan - FARKOVÁ, Jana. On submeasures II. In Mathematica Slovaca, 1980, vol. 30, p. 65-81. ISSN 0139-9918. |

Citácie:

*1. [1.1] KAWABE, Jun - YAMADA, Naoki. The completeness and separability of function spaces in nonadditive measure theory. In FUZZY SETS AND SYSTEMS, 2023, vol. 466, no., pp. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.10.001*](https://doi.org/10.1016/j.fss.2022.10.001)*, Registrované v: WOS*

*2. [1.1] KAWABE, Jun. The topology on the space of measurable functions that is compatible with convergence in nonadditive measure. In FUZZY SETS AND SYSTEMS, 2022, vol. 430, no., pp. 1-18. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2021.05.009*](https://doi.org/10.1016/j.fss.2021.05.009)*, Registrované v: WOS*

*3. [1.1] KAWABE, Jun. Topological and topological linear properties of the Sugeno-Lorentz spaces. In FUZZY SETS AND SYSTEMS, 2023, vol. 467, no., pp. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2023.03.010*](https://doi.org/10.1016/j.fss.2023.03.010)*, Registrované v: WOS*

*4. [1.1] LI, Jun. Some notes on monotone set-valued measures and Egoroff';s theorem. In FUZZY SETS AND SYSTEMS, 2022, vol. 430, no., pp. 174-179. ISSN 0165-0114. Dostupné na:* [*https://doi.org/10.1016/j.fss.2021.09.012*](https://doi.org/10.1016/j.fss.2021.09.012)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB08 | DUCHOŇ, Miloslav - MALIČKÝ, P. A Helly theorem for functions with values in metric spaces. In Tatra Mountains Mathematical Publications, 2009, vol. 44, p. 159-168. ISSN 1210-3195. |

Citácie:

*1. [1.2] CRISMALE, Vito. Energetic solutions for the coupling of associative plasticity with damage in geomaterials. In Nonlinear Analysis, Theory, Methods and Applications, 2022-09-01, 222, pp. ISSN 0362546X. Dostupné na:* [*https://doi.org/10.1016/j.na.2022.112957*](https://doi.org/10.1016/j.na.2022.112957)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB09 | DUCHOŇ, Miloslav. A generalized Bernstein approximation theorem. In Tatra Mountains Mathematical Publications, 2011, vol. 49, p. 99-109. (2010: 0.146 - SJR, Q4 - SJR). ISSN 1210-3195. Dostupné na: <https://doi.org/10.2478/v10127-011-0029-x> |

Citácie:

*1. [1.1] BAYAT, K. - IZADBAKHSH, A. Cooperative multiple elastic-joint arms control using the (p, q)-analogue of Bernstein operators as the uncertainty approximator. In INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL. ISSN 1049-8923, JUL 10 2023, vol. 33, no. 10, p. 5437-5462. Dostupné na:* [*https://doi.org/10.1002/rnc.6652*](https://doi.org/10.1002/rnc.6652)*, Registrované v: WOS*

*2. [1.1] ZHAO, H.R. - ZENG, X. - QI, N.N. - YANG, Z.F. - ZENG, Z.B. Safe DNN-type Controller Synthesis for Nonlinear Systems via Meta Reinforcement Learning. In 2023 60TH ACM/IEEE DESIGN AUTOMATION CONFERENCE, DAC. 2023. Dostupné na:* [*https://doi.org/10.1109/DAC56929.2023.10247837*](https://doi.org/10.1109/dac56929.2023.10247837)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB10 | DVUREČENSKIJ, Anatolij - GRAZIANO, M.G. Remarks on representations of minimal clans. In Tatra Mountains Mathematical Publications, 1998, vol. 15, p. 31-53. ISSN 1210-3195. |

Citácie:

*1. [1.1] AVALLONE, A. - VITOLO, P. Sharp elements in d0-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 6, p. 85-103. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.43899.7730*](https://doi.org/10.22111/ijfs.2023.43899.7730)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB11 | HALUŠKA, Ján - HUTNÍK, O. Some inequalities involving integral means. In Tatra Mountains Mathematical Publications, 2007, vol. 35, s. 131-146. ISSN 1210-3195. |

Citácie:

*1. [3.1] AGARWAL, R.P. - KHAN, ASIF R. - SAADI, S. Integral Results Related to Similarly Separable Vectors in Separable Hilbert Spaces. In Foundations, 2022, Vol. 2, no. 3, p. 813-826, doi.org/10.3390/foundations2030055*

|  |  |
| --- | --- |
| ADFB12 | HALUŠKOVÁ, Emília. ON DIRECT LIMITS OF MV-ALGEBRAS. In Mathematica Slovaca, 2010, vol. 60, no. 6, s. 839-846. (2009: 0.308 - IF, Q4 - JCR, 0.248 - SJR, Q3 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-010-0051-5> |

Citácie:

*1. [1.2] CHEN, Zhuanhua - XIE, Yongjian. Direct Limits of EMV-Algebras. In Communications in Computer and Information Science, 2023-01-01, 1917 CCIS, pp. 263-270. ISSN 18650929. Dostupné na:* [*https://doi.org/10.1007/978-981-99-7869-4\_21*](https://doi.org/10.1007/978-981-99-7869-4_21)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB13 | HEDLÍKOVÁ, Jarmila - PULMANNOVÁ, Sylvia. Generalized difference posets and orthoalgebras. In Acta Mathematica Universitatis Comenianae, 1996, vol. 65, s. 247-279. ISSN 0862-9544. |

Citácie:

*1. [1.1] FAHRENBERG, U. - JOHANSEN, C. - STRUTH, G. - ZIEMIANSKI, K. Catoids and modal convolution algebras. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, MAY 2023, vol. 84, no. 2. Dostupné na:* [*https://doi.org/10.1007/s00012-023-00805-9*](https://doi.org/10.1007/s00012-023-00805-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB14 | KARABÁŠ, Ján - NEDELA, Roman. Minimal representatives of G-classes of 3-manifolds of genus two. In Acta Universitatis Matthiae Belii : Mathematics, 2003, vol. 10, s. 21-45. |

Citácie:

*1. [1.1] CAVICCHIOLI, Paolo. An algorithmic method to compute plat slide moves in 3-manifolds of Heegaard genus two. In DISCRETE MATHEMATICS, 2023, vol. 346, no. 12, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2023.113627*](https://doi.org/10.1016/j.disc.2023.113627)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB15 | KOCHOL, Martin. Constructive approximation of a ball by polytopes. In Mathematica Slovaca, 1994, vol. 44, s. 99-105. ISSN 0139-9918. |

Citácie:

*1. [1.2] LATAŁA, Rafał. Bounding Suprema of Canonical Processes via Convex Hull. In Progress in Probability, 2023-01-01, 80, pp. 325-344. ISSN 10506977. Dostupné na:* [*https://doi.org/10.1007/978-3-031-26979-0\_13*](https://doi.org/10.1007/978-3-031-26979-0_13)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB16 | KOREC, Ivan. Palindromic squares for various number system bases. In Mathematica Slovaca, 1991, vol. 41, s. 261-276. ISSN 0139-9918. |

Citácie:

*1. [1.1] PHUNPHAYAP, Phakhinkon - PONGSRIIAM, Prapanpong. Extremal orders and races between palindromes in different bases. In AIMS MATHEMATICS, 2022, vol. 7, no. 2, pp. 2237-2254. Dostupné na:* [*https://doi.org/10.3934/math.2022127*](https://doi.org/10.3934/math.2022127)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB17 | KOREC, Ivan. A density estimate for the 3x+1 problem. In Mathematica Slovaca, 1994, vol. 44, no. 1, p. 85-89. ISSN 0139-9918. |

Citácie:

*1. [1.1] CLAY, Oliver Keatinge. The Long Search for Collatz Counterexamples. In JOURNAL OF HUMANISTIC MATHEMATICS, 2023, vol. 13, no. 2, pp. 199-227. ISSN 2159-8118., Registrované v: WOS*

*2. [1.1] TAO, Terence. Almost all orbits of the Collatz map attain almost bounded values. In FORUM OF MATHEMATICS PI, 2022, vol. 10, no., pp. ISSN 2050-5086. Dostupné na:* [*https://doi.org/10.1017/fmp.2022.8*](https://doi.org/10.1017/fmp.2022.8)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB18 | KOSTRA, Juraj. The covering of rings by integrally closed rings. In Mathematica Slovaca, 1984, vol. 34, s. 171-176. ISSN 0139-9918. |

Citácie:

*1. [1.2] MACDONALD, Marie. Building three-variable homogeneous integer-valued polynomials using generalized projective planes. In Algebraic, Number Theoretic, and Topological Aspects of Ring Theory, 2023-07-07, pp. 343-350. Dostupné na:* [*https://doi.org/10.1007/978-3-031-28847-0\_18*](https://doi.org/10.1007/978-3-031-28847-0_18)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB19 | KOTZIG, A.. From the theory of Eulerian polyhedra. In Matematický časopis, 1963, vol. 13, s. 20-34. |

Citácie:

*1. [1.1] BORODIN, O. - IVANOVA, A. O. COMBINATORIAL STRUCTURE OF FACES IN TRIANGULATIONS ON SURFACES. In SIBERIAN MATHEMATICAL JOURNAL, 2022, vol. 63, no. 4, pp. 662-669. ISSN 0037-4466. Dostupné na:* [*https://doi.org/10.1134/S0037446622040061*](https://doi.org/10.1134/s0037446622040061)*, Registrované v: WOS*

*2. [1.1] BORODIN, O. V. - IVANOVA, A. O. Another tight description of faces in plane triangulations with minimum degree 4. In DISCRETE MATHEMATICS, 2022, vol. 345, no. 9, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.112964*](https://doi.org/10.1016/j.disc.2022.112964)*, Registrované v: WOS*

*3. [1.1] BORODIN, O. V. - IVANOVA, A. O. Tight description of faces of triangulations on the torus. In DISCRETE MATHEMATICS, 2023, vol. 346, no. 9, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2023.113510*](https://doi.org/10.1016/j.disc.2023.113510)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB20 | KOTZIG, A.. Hamilton graphs and Hamilton circuits. In Theory of Graphs and its Applications, 1964, vol. 62, p. 63-82. Conference: Proceedings of the Symposium of Smolenice, 1963, p. 524-529. |

Citácie:

*1. [1.1] ALLSOP, Jack. Cycles of quadratic Latin squares and antiperfect 1-factorisations. In JOURNAL OF COMBINATORIAL DESIGNS, 2023, vol. 31, no. 9, pp. 447-475. ISSN 1063-8539. Dostupné na:* [*https://doi.org/10.1002/jcd.21905*](https://doi.org/10.1002/jcd.21905)*, Registrované v: WOS*

*2. [1.1] ALON, Noga - GUJGICZER, Anna - KORNER, Janos - MILOJEVIC, Aleksa - SIMONYI, Gabor. STRUCTURED CODES OF GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS, 2023, vol. 37, no. 1, pp. 379-403. ISSN 0895-4801. Dostupné na:* [*https://doi.org/10.1137/22M1487989*](https://doi.org/10.1137/22m1487989)*, Registrované v: WOS*

*3. [1.1] DAVIES, Sara - MAENHAUT, Barbara - MITCHELL, Jeremy. Perfect 1-factorisations of complete ik/i-uniform hypergraphs. In AUSTRALASIAN JOURNAL OF COMBINATORICS, 2023, vol. 85, no., pp. 35-48. ISSN 2202-3518., Registrované v: WOS*

*4. [1.1] PERONDI, Pablo Henrique - CARMELO, Emerson L. Monte L. Perfect One-Factorizations Arising from the Lee Metric. In GRAPHS AND COMBINATORICS, 2023, vol. 39, no. 1, pp. ISSN 0911-0119. Dostupné na:* [*https://doi.org/10.1007/s00373-022-02603-x*](https://doi.org/10.1007/s00373-022-02603-x)*, Registrované v: WOS*

*5. [1.1] VAN CLEEMPUT, Nico - ZAMFIRESCU, Carol T. Hamiltonian cycles and 1-factors in 5-regular graphs. In JOURNAL OF COMBINATORIAL THEORY SERIES B, 2022, vol. 154, no., pp. 239-261. ISSN 0095-8956. Dostupné na:* [*https://doi.org/10.1016/j.jctb.2021.12.008*](https://doi.org/10.1016/j.jctb.2021.12.008)*, Registrované v: WOS*

*6. [1.2] RIBEIRO, Celso C. - URRUTIA, Sebastián - DE WERRA, Dominique. Metaheuristics and Local Search. In EURO Advanced Tutorials on Operational Research, 2023-01-01, part F1495, pp. 57-98. ISSN 2364687X. Dostupné na:* [*https://doi.org/10.1007/978-3-031-37283-4\_3*](https://doi.org/10.1007/978-3-031-37283-4_3)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB21 | ROSA, Alexander. On cyclic decompositions of the complete graph into (4m+2)-gons. In Matematicko-fyzikálny časopis, 1966, vol. 16, no. 4, p. 349-352. |

Citácie:

*1. [1.1] EL-MESADY, Ahmed - FARAHAT, Tasneem - EL-SHANAWANY, Ramadan - ROMANOV, Aleksandr Y. On Orthogonal Double Covers and Decompositions of Complete Bipartite Graphs by Caterpillar Graphs. In ALGORITHMS, 2023, vol. 16, no. 7, pp. Dostupné na:* [*https://doi.org/10.3390/a16070320*](https://doi.org/10.3390/a16070320)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB22 | SATKO, L. - GROSEK, O. - NEMOGA, Karol. Extremal generalized S-boxes. In Computing and informatics, 2003, vol. 22, s. 85-99. ISSN 1335-9150. |

Citácie:

*1. [1.1] MAROCHOK, Stanislav - ZAJAC, Pavol. Algorithm for Generating S-Boxes with Prescribed Differential Properties. In ALGORITHMS, 2023, vol. 16, no. 3, pp. Dostupné na:* [*https://doi.org/10.3390/a16030157*](https://doi.org/10.3390/a16030157)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB23 | SCHWARZ, Štefan. Convolution semigroup of measures on compact non-commutative semigroups. In Czechoslovak Mathematical Journal, 1964, vol. 14, no. 89, s. 95-115. ISSN 0011-4642. |

Citácie:

*1. [1.2] ITO, Yu - SERA, Toru - YANO, Kouji. Resolution of Sigma-Fields for Multiparticle Finite-State Action Evolutions with Infinite Past. In Journal of Theoretical Probability, 2023-09-01, 36, 3, pp. 1368-1399. ISSN 08949840. Dostupné na:* [*https://doi.org/10.1007/s10959-022-01219-4*](https://doi.org/10.1007/s10959-022-01219-4)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADFB24 | ŠUCH, Ondrej. Vertex transitive maps on torus. In Acta Mathematicae Universitatis Comenianae, 2011, vol. 80, no. 1, s. 1-29. ISSN 0862-9544. |

Citácie:

*1. [1.1] DATTA, Basudeb - MAITY, Dipendu. Platonic solids, Archimedean solids and semi-equivelar maps on the sphere. In DISCRETE MATHEMATICS, 2022, vol. 345, no. 1, pp. ISSN 0012-365X. Dostupné na:* [*https://doi.org/10.1016/j.disc.2021.112652*](https://doi.org/10.1016/j.disc.2021.112652)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADFB25 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Proper rounding of the measurement results under the assumption of uniform distribution. In Measurement Science Review, 2002, vol. 2, p. 1-7. ISSN 1335-8871. |

Citácie:

*1. [1.1] SUPELETO, F.A. - AGUIAR, A.P. A new and unusual Digonocryptus Viereck (Hymenoptera, Ichneumonidae, Cryptinae), with notes on two other rare species. In ZOOTAXA. ISSN 1175-5326, AUG 7 2023, vol. 5325, no. 1, p. 90-96. Dostupné na:* [*https://doi.org/10.11646/zootaxa.5325.1.5*](https://doi.org/10.11646/zootaxa.5325.1.5)*, Registrované v: WOS*

**ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMA01 | AK GÜMÜS, Özlem - FEČKAN, Michal. Stability, Neimark-Sacker bifurcation and chaos control for a prey-predator system with harvesting effect on predator. In Miskolc Mathematical Notes, 2021, vol. 22, no. 2, p. 663-679. (2020: 1.085 - IF, Q2 - JCR, 0.443 - SJR, Q2 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2021.3450](https://doi.org/10.18514/mmn.2021.3450) |

Citácie:

*1. [1.1] MOKNI, K. - CH-CHAOUI, M. Complex dynamics and bifurcation analysis for a Beverton-Holt population model with Allee effect. In INTERNATIONAL JOURNAL OF BIOMATHEMATICS. ISSN 1793-5245, OCT 2023, vol. 16, no. 07. Dostupné na:* [*https://doi.org/10.1142/S1793524522501273*](https://doi.org/10.1142/s1793524522501273)*, Registrované v: WOS*

*2. [1.1] SHARMA, V.S. - SINGH, A. Strong Resonance Bifurcations and State Feedback Control in a Discrete Prey-Predator Model with Harvesting Effect. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, SEP 2023, vol. 22, no. 3. Dostupné na:* [*https://doi.org/10.1007/s12346-023-00805-z*](https://doi.org/10.1007/s12346-023-00805-z)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA02 | AMANN, A. - SCHWARZ, K. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Model based determination of detection limits for proton transfer reaction mass spectrometer. In Measurement Science Review, 2010, vol. 10, no. 6, p. 180-188. (2009: 0.115 - SJR, Q4 - SJR). (2010 - WOS, SCOPUS). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/v10048-010-0031-5> |

Citácie:

*1. [3.1] KISTENEV, Y.V. - TRIMASSOV, I. – SHKURINOV, A.P. Approaches to non-contact diagnostics of stress conditions using infra-red and terahertz spectroscopy. In LIFE SAFETY / SECURITY TECHNOLOGIES. ISSN 2949-1673, 2023, no. 1. р. 71–81. (in Russian) Dostupné na:* [*https://vital.lib.tsu.ru/vital/access/manager/Repository/koha:000998028.*](https://vital.lib.tsu.ru/vital/access/manager/repository/koha:000998028.)

|  |  |
| --- | --- |
| ADMA03 | ČECH, Radek\*\* - KOSEK, Pavel - NAVRÁTILOVÁ, Olga - MAČUTEK, Ján. Development of the word order of the reflexive enclitic sě/se dependent on a finite verb in Czech translations of the Gospel of Matthew from the 14th to the 21st century. In Journal of Historical Linquistic, 2024, vol. 14, iss. 3, pp. 385-426. (2023: 0.5 - IF, 0.149 - SJR, Q3 - SJR). ISSN 2210-2116. Dostupné na: <https://doi.org/10.1075/jhl.21029.cec> (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing. APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology) |

Citácie:

*1. [1.1] BREZINA, Martin. THE DISTRIBUTION OF ( NON-) SYLLABIC PRESENT TENSE FORMS OF THE VERB iBYTI/i IN THE SECOND- PERSON SINGULAR IN OLD CZECH. In LISTY FILOLOGICKE, 2023, vol. 146, no. 1-2, pp. 79-110. ISSN 0024-4457., Registrované v: WOS*

*2. [3.1] BREZINA, M. Distribution of (non-)syllabic present tense forms of the verb býti in the 3rd-person singular on Old Czech. In Linguistica Brunensia, 2023, vol. 71, no. 2, p. 59-81, doi* [*https://doi.org/10.5817/LB2023-2-3*](https://doi.org/10.5817/lb2023-2-3)

|  |  |
| --- | --- |
| ADMA04 | DERBAZI, Choukri - BAITICHE, Zidane - FEČKAN, Michal. Some new uniqueness and Ulam stability results for a class of multiterms fractional differential equations in the framework of generalized Caputo fractional derivative using the Φ-fractional Bielecki-type norm. In Turkish Journal of Mathematics, 2021, vol. 45, p. 2307-2322. (2020: 0.803 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR). ISSN 1300-0098. Dostupné na: <https://doi.org/10.3906/mat-2011-92> |

Citácie:

*1. [1.1] CHEN, C.R. Discrete Caputo Delta Fractional Economic Cobweb Models. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, MAR 2023, vol. 22, no. 1. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00708-5*](https://doi.org/10.1007/s12346-022-00708-5)*, Registrované v: WOS*

*2. [1.2] DHAWAN, Kanika - VATS, Ramesh Kumar - KARAPINAR, Erdal. Qualitative Analysis of Nonlinear Hilfer Fractional Implicit Differential Equations in a Banach space. In Advances in the Theory of Nonlinear Analysis and its Applications, 2023-01-01, 7, 5, pp. 141-154. Dostupné na:* [*https://doi.org/10.17762/atnaa.v7.i5.331*](https://doi.org/10.17762/atnaa.v7.i5.331)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA05 | DIBLÍK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Representation of a solution of the Cauchy problem for an oscillating system with two delays and permutable matrices. In Ukrainian Mathematical Journal, 2013, vol. 65, no. 1, p. 64-76. (2012: 0.154 - IF, Q4 - JCR, 0.323 - SJR). ISSN 0041-5995. Dostupné na: <https://doi.org/10.1007/s11253-013-0765-y> |

Citácie:

*1. [1.1] ABUASBEH, K. - MAHMUDOV, N.I. - AWADALLA, M. Relative Controllability and Ulam-Hyers Stability of the Second-Order Linear Time-Delay Systems. In MATHEMATICS. FEB 2023, vol. 11, no. 4. Dostupné na:* [*https://doi.org/10.3390/math11040806*](https://doi.org/10.3390/math11040806)*, Registrované v: WOS*

*2. [1.1] LIANG, Yixing - SHI, Yang - FAN, Zhenbin. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS, 2023, vol. 26, no. 1, pp. 439-460. ISSN 1311-0454. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: WOS*

*3. [1.1] ZHOU, A.R. - WANG, J.R. Relative controllability of conformable delay differential systems with linear parts defined by permutable matrices. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 9, p. 2659-2673. Dostupné na:* [*https://doi.org/10.2298/FIL2309659Z*](https://doi.org/10.2298/fil2309659z)*, Registrované v: WOS*

*4. [1.1] ZHOU, A.R. Exponential Stability and Relative Controllability of Nonsingular Conformable Delay Systems. In AXIOMS. OCT 2023, vol. 12, no. 10. Dostupné na:* [*https://doi.org/10.3390/axioms12100994*](https://doi.org/10.3390/axioms12100994)*, Registrované v: WOS*

*5. [1.2] MAHMUDOV, Nazim I. Multi-delayed perturbation of Mittag-Leffler type matrix functions. In Journal of Mathematical Analysis and Applications, 2022-01-01, 505, 1, art. nr. 125589, 16 p. ISSN 0022247X. Dostupné na:* [*https://doi.org/10.1016/j.jmaa.2021.125589*](https://doi.org/10.1016/j.jmaa.2021.125589)*, Registrované v: SCOPUS*

*6. [1.2] MUTHUVEL, Kothandapani - SAWANGTONG, Panumart - KALIRAJ, Kalimuthu. Relative Controllability of ψ-Caputo Fractional Neutral Delay Differential System. In Fractal and Fractional, 2023-06-01, 7, 6, art. nr. 437. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: SCOPUS*

*7. [1.2] POLYANIN, Andrei D. - SOROKIN, Vsevolod G. - ZHUROV, Alexei I. Delay Ordinary and Partial Differential Equations. In Delay Ordinary and Partial Differential Equations, 2023-01-01, pp. 1-415. Dostupné na:* [*https://doi.org/10.1201/9781003042310*](https://doi.org/10.1201/9781003042310)*, Registrované v: SCOPUS*

*8. [3.1] MAHMUDOV, N. I. Analytical solution of the fractional linear multi-delayed systems and their Ulam-Hyers stability. In Proceedings Book of the 5th Mediterranean International Conference of Pure and Appllied Mathematics and Related Areas (MICOPAM 2022), Antalya, Turkey.*

*9. [3.1] POLYANIN, A.D. - SOROKIN, V.G. - ZHUROV, A. I. Delay Differential Equations: Properties, Methods, Solutions and Models, IPMech RAN Moscow, 2022.*

|  |  |
| --- | --- |
| ADMA06 | DOBREV, Stefan\* - FLOCCHINI, Paola\* - PRENCIPE, Giuseppe\* - SANTORO, Nicola\*. Asynchronous Gathering in a Dangerous Ring. In Algorithms, 2023, vol. 16, no. 5, art. nr. 222. (2022: 2.3 - IF, 0.497 - SJR, Q2 - SJR). ISSN 1999-4893. Dostupné na: <https://doi.org/10.3390/a16050222> |

Citácie:

*1. [1.1] FELETTI, C. - MEREGHETTI, C. - PALANO, B. Uniform Circle Formation for Fully, Semi-, and Asynchronous Opaque Robots with Lights.   
  
In APPLIED SCIENCES-BASEL. JUL 2023, vol. 13, no. 13. Dostupné na:* [*https://doi.org/10.3390/app13137991*](https://doi.org/10.3390/app13137991)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA07 | DVUREČENSKIJ, Anatolij. States on weak pseudo EMV-algebras. I. States and states morphisms. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 4, p. 1-15. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.7082](https://doi.org/10.22111/ijfs.2022.7082) |

Citácie:

*1. [1.1] AVALLONE, A. - VITOLO, P. Sharp elements in d0-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 6, p. 85-103. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.43899.7730*](https://doi.org/10.22111/ijfs.2023.43899.7730)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA08 | DVUREČENSKIJ, Anatolij. States on weak pseudo EMV-algebras. II. Representations of states. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 4, p. 17-26. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.7083](https://doi.org/10.22111/ijfs.2022.7083) |

Citácie:

*1. [1.1] AVALLONE, A. - VITOLO, P. Sharp elements in d0-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, NOV-DEC 2023, vol. 20, no. 6, p. 85-103. Dostupné na:* [*https://doi.org/10.22111/IJFS.2023.43899.7730*](https://doi.org/10.22111/ijfs.2023.43899.7730)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA09 | FEČKAN, Michal - KOSTIC, Marko - VELINOV, Daniel\*\*. (ω, ρ)-periodic solutions of abstract integro-differential impulsive equations on Banach space. In International Journal of Dynamical Systems and Differential Equations : Int J Dynamical Systems and Differential Equations, 2023, vol.13, no. 3, p. 183-196. (2022: 0.3 - IF, 0.176 - SJR, Q4 - SJR). ISSN 1752-3583. Dostupné na: [https://doi.org/10.1504/IJDSDE.2023.135020](https://doi.org/10.1504/ijdsde.2023.135020) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] AL-OMARI, A. - AL-SAADI, H. (ω,ρ)-BVP Solution of Impulsive Hadamard Fractional Differential Equations. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204370*](https://doi.org/10.3390/math11204370)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA10 | FEČKAN, Michal - POSPÍŠIL, Michal. On equations with generalized periodic right-hand side. In Ukrainian Mathematical Journal, 2018, vol. 70, no. 2, p. 288-318. (2017: 0.343 - IF, Q4 - JCR, 0.325 - SJR, Q3 - SJR). ISSN 0041-5995. Dostupné na: <https://doi.org/10.1007/s11253-018-1501-4> |

Citácie:

*1. [1.2] PILIPCHUK, Valery N. Oscillators and oscillatory signals from smooth to discontinuous: Geometrical, algebraic, and physical nature. In Oscillators and Oscillatory Signals from Smooth to Discontinuous: Geometrical, Algebraic, and Physical Nature, 2023-09-23, pp. 1-456. Dostupné na:* [*https://doi.org/10.1007/9783031377884*](https://doi.org/10.1007/9783031377884)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA11 | FOULIS, David J - PULMANNOVÁ, Sylvia. Unitizing a generalized pseudo effect algebra. In Order, 2015, vol. 32, no. 2, s. 189-204. (2014: 0.621 - IF, Q2 - JCR, 0.705 - SJR, Q2 - SJR). (2015 - WOS, SCOPUS). ISSN 0167-8094. Dostupné na: <https://doi.org/10.1007/s11083-014-9325-9> |

Citácie:

*1. [1.1] DVURECENSKIJ, A. Representation of perfect and n-perfect pseudo effect algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, MAR 15 2023, vol. 455, p. 19-34. Dostupné na:* [*https://doi.org/10.1016/j.fss.2022.08.015*](https://doi.org/10.1016/j.fss.2022.08.015)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA12 | HOLÁ, Ľubica - MIRMOSTAFAEE, Alireza Kamel\*\*. On continuity of set-valued mappings. In Topology and its Applications, 2022, vol. 320, art. no. 108200. (2021: 0.583 - IF, Q4 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 0166-8641. Dostupné na: <https://doi.org/10.1016/j.topol.2022.108200> (Topologické štruktúry a priestory funkcií : APVV-20-0045. VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií) |

Citácie:

*1. [2.2] MATEJDES, Milan. A FEW VARIANTS OF QUASI-CONTINUITY IN BITOPOLOGICAL SPACES. In Tatra Mountains Mathematical Publications, 2023-11-01, 85, 3, pp. 27-44. ISSN 12103195. Dostupné na:* [*https://doi.org/10.2478/tmmp-2023-0022*](https://doi.org/10.2478/tmmp-2023-0022)*, Registrované v: SCOPUS*

*2. [3.1] CHANG, S. - CHO, J.J. - PARK, S. - YUAN, G.X. Fixed Point Theorems for Quasi Upper Semicontinuous Set-valued Mappings in p-vector and Locally p-Convex Spaces. Chapter in Advanced Mathematical Analysis and its Applications. 2023. ISBN 9781003388678.*

|  |  |
| --- | --- |
| ADMA13 | HOLÁ, Ľubica - KOČINAC, Ljubiša D.R. Boundedness properties in function spaces. In Quaestiones Mathematicae, 2018, vol. 41, no. 6, p. 829-838. (2017: 0.428 - IF, Q4 - JCR, 0.343 - SJR, Q3 - SJR). ISSN 1607-3606. Dostupné na: <https://doi.org/10.2989/16073606.2017.1402830> |

Citácie:

*1. [1.1] ALAM, N. - CHANDRAY, D. On localization of the Menger property. In QUAESTIONES MATHEMATICAE. ISSN 1607-3606, JUN 3 2023, vol. 46, no. 6, p. 1069-1092. Dostupné na:* [*https://doi.org/10.2989/16073606.2022.2054745*](https://doi.org/10.2989/16073606.2022.2054745)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA14 | HOLÁ, Ľubica - HOLÝ, Dušan\*\*. Metrizability of the space of quasicontinuous functions. In Topology and its Applications, 2018, vol. 246, p. 137-143. (2017: 0.549 - IF, Q3 - JCR, 0.609 - SJR, Q2 - SJR). ISSN 0166-8641. Dostupné na: <https://doi.org/10.1016/j.topol.2018.07.001> |

Citácie:

*1. [3.1] SHIRAZI, F.A. ZADEH - SHIRINBAYAN, NIMA. The size of quasicontinuous maps on Khalimsky line. In Journal of Finsler Geometry and its Applications. Vol. 4, 2023, p. 38-42.*

|  |  |
| --- | --- |
| ADMA15 | HU, Kan - NEDELA, Roman\* - WANG, Naer. Complete regular dessins of odd prime power order. In Discrete Mathematics, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X. Dostupné na: <https://doi.org/10.1016/j.disc.2018.09.028> |

Citácie:

*1. [1.1] FAN, W.W. - LI, C.H. - QIAO, S.H. Complete circular regular dessins of coprime orders. In DISCRETE MATHEMATICS. ISSN 0012-365X, JAN 2023, vol. 346, no. 1. Dostupné na:* [*https://doi.org/10.1016/j.disc.2022.113189*](https://doi.org/10.1016/j.disc.2022.113189)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA16 | HU, Kan - NEDELA, Roman - WANG, Naer. Nilpotent groups of class two which underly a unique regular dessin. In Geometriae Dedicata, 2015, vol. 179, p. 177-186. (2014: 0.518 - IF, Q3 - JCR, 1.185 - SJR, Q1 - SJR). (2015 - WOS, SCOPUS). ISSN 0046-5755. Dostupné na: <https://doi.org/10.1007/s10711-015-0074-8> |

Citácie:

*1. [1.2] SUN, Lianghong - WANG, Jin. Uniquely regular dessins with nilpotent automorphism groups of odd prime power order. In Journal of Physics: Conference Series, 2023-01-01, 2660, 1, pp. ISSN 17426588. Dostupné na:* [*https://doi.org/10.1088/1742-6596/2660/1/012024*](https://doi.org/10.1088/1742-6596/2660/1/012024)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA17 | JAJCAY, R. - NEDELA, Roman. Half-regular Cayley maps. In Graphs and combinatorics, 2015, vol. 31, no. 4, p. 1003-1018. (2014: 0.388 - IF, Q4 - JCR, 0.751 - SJR, Q2 - SJR). (2015 - WOS, SCOPUS). ISSN 0911-0119. Dostupné na: <https://doi.org/10.1007/s00373-014-1428-y> |

Citácie:

*1. [1.1] YU, X. - ZHANG, Q.S. Orientable vertex transitive embeddings of Kp. In AIMS MATHEMATICS. 2023, vol. 8, no. 7, p. 15024-15034. Dostupné na:* [*https://doi.org/10.3934/math.2023767*](https://doi.org/10.3934/math.2023767)*, Registrované v: WOS*

*2. [1.2] HU, Kan - KOVÁCS, István - KWON, Young Soo. A classification of skew morphisms of dihedral groups. In Journal of Group Theory, 2023-05-01, 26, 3, pp. 547-569. ISSN 14335883. Dostupné na:* [*https://doi.org/10.1515/jgth-2022-0085*](https://doi.org/10.1515/jgth-2022-0085)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA18 | KURA, Branislav - SZANTOVÁ, M. - LE BARON, Tyler W. - MOJTO, Viliam - BARANČÍK, Miroslav - SZEIFFOVÁ BAČOVÁ, Barbara - KALOČAYOVÁ, Barbora - SÝKORA, Matúš - OKRUHLICOVÁ, Ľudmila - TRIBULOVÁ, Narcisa - GVOZDJAKOVÁ, Anna - SUMBALOVÁ, Zuzana - KUCHARSKÁ, Jarmila - FAKTOROVÁ, Xénia - JAKABOVIČOVÁ, Martina - ĎURKOVIČOVÁ, Zuzana - MAČUTEK, Ján - KOŠČOVÁ, Michaela - SLEZÁK, Ján\*\*. Biological Effects of Hydrogen Water on Subjects witn NAFLD: A Randomized, Placebo-Controlled Trial. In Antioxidants, 2022, vol. 11, iss. 10, art. no. 1935. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: <https://doi.org/10.3390/antiox11101935> (APVV-0241-11 : Poškodenie zdravého tkaniva srdca a ciev pri ožiarení protónmi - patofyziológia a prevencia. APVV-15-0376 : Ochrana srdca v situáciách zvýšenej produkcie voľných kyslíkových radikálov: radiačné a reperfúzne poškodenie. APVV-19-0317 : Úloha miRNA pri vzniku a priebehu kardiovaskulárnych ochorení – nové prístupy ochrany srdca v situáciách zvýšenej produkcie reaktívnych foriem kyslíka. ITMS 26230120009 : Dobudovanie infraštruktúry pre moderný výskum civilizačných ochorení. VEGA č. 2/0063/18 : Ochrana srdca v situáciách nadmernej tvorby kyslíkových a nitrozylových radikálov: Molekulárny vodík ako nový potenciálny terapeutický nástroj?. VEGA č. 2/0148/22 : Vývoj diabetickej nefropatie a jej liečba nutraceutikom v experimentálnych podmienkach) |

Citácie:

*1. [1.1] ATAMANALP, Muhammed - KIRICI, Muammer - KOKTURK, Mine - KIRICI, Mahinur - ALWAZEER, Duried - KOCAMAN, Esat Mahmut - UCAR, Arzu - PARLAK, Veysel - OZCAN, Sinan - ALAK, Gonca. Does hydrogen-rich water mitigate MP toxicity in rainbow trout (Oncorhyncus mykiss)? Monitoring with hematology, DNA damage, and apoptosis via ROS/GSH/MDA pathway. In OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES. ISSN 1730-413X, JUN 1 2023, vol. 52, no. 2, p. 206-220., Registrované v: WOS*

*2. [1.1] CARNOVALI, Marta - BANFI, Giuseppe - MARIOTTI, Massimo. Molecular Hydrogen Prevents Osteoclast Activation in a Glucocorticoid-Induced Osteoporosis Zebrafish Scale Model. In ANTIOXIDANTS, 2023, vol. 12, no. 2, pp. Dostupné na:* [*https://doi.org/10.3390/antiox12020345*](https://doi.org/10.3390/antiox12020345)*, Registrované v: WOS*

*3. [1.1] JOHNSEN, Hennie Marie - HIORTH, Marianne - KLAVENESS, Jo. Molecular Hydrogen Therapy-A Review on Clinical Studies and Outcomes. In MOLECULES. DEC 2023, vol. 28, no. 23. Dostupné na:* [*https://doi.org/10.3390/molecules28237785*](https://doi.org/10.3390/molecules28237785)*, Registrované v: WOS*

*4. [1.1] LUO, Jing - CHEN, Ming - JI, Hongwu - SU, Weifeng - SONG, Wenkui - ZHANG, Di - SU, Weiming - LIU, Shucheng. Brown adipose tissue-derived Nrg4 alleviates non-alcoholic fatty liver disease in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, SEP 2023, vol. 108., Registrované v: WOS*

*5. [1.1] XIE, Fei - SONG, Yifei - YI, Yang - JIANG, Xue - MA, Shiwen - MA, Chen - LI, Junyu - ZHANGHUANG, Ziyi - LIU, Mengyu - ZHAO, Pengxiang - MA, Xuemei. Therapeutic Potential of Molecular Hydrogen in Metabolic Diseases from Bench to Bedside. In PHARMACEUTICALS, 2023, vol. 16, no. 4, pp. Dostupné na:* [*https://doi.org/10.3390/ph16040541*](https://doi.org/10.3390/ph16040541)*, Registrované v: WOS*

*6. [1.1] XUE, Junli - ZHAO, Min - LIU, Yunchao - JIA, Xiubin - ZHANG, Xiaoyi - GU, Qianqian - XIE, Yunbo - QIN, Shucun - LIU, Boyan. Hydrogen inhalation ameliorates hepatic inflammation and modulates gut microbiota in rats with high-fat diet-induced non-alcoholic fatty liver disease. In EUROPEAN JOURNAL OF PHARMACOLOGY, 2023, vol. 947, no., pp. ISSN 0014-2999. Dostupné na:* [*https://doi.org/10.1016/j.ejphar.2023.175698*](https://doi.org/10.1016/j.ejphar.2023.175698)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA19 | LIU, Kui - FEČKAN, Michal - WANG, JinRong. A Class of (ω, T)-Periodic Solutions for Impulsive Evolution Equations of Sobolev Type. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 2743-2763. (2021: 0.776 - IF, Q3 - JCR). ISSN 1735-8515. Dostupné na: <https://doi.org/10.1007/s41980-021-00666-9> |

Citácie:

*1. [1.1] MANJULA, M. - KALIRAJ, K. - BOTMART, T. - NISAR, K.S. - RAVICHANDRAN, C. Existence, uniqueness and approximation of nonlocal fractional differential equation of sobolev type with impulses. In AIMS MATHEMATICS. 2023, vol. 8, no. 2, p. 4645-4665. Dostupné na:* [*https://doi.org/10.3934/math.2023229*](https://doi.org/10.3934/math.2023229)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA20 | MAČUTEK, J. - WIMMER, Gejza. Evaluating goodness-of-fit of discrete distribution models in quantitative linguistics. In Journal of Quantitative Linguistics, 2013, vol. 20, no. 3, p. 227-240. (2012: 0.455 - IF, Q3 - JCR, 0.212 - SJR). ISSN 0929-6174. Dostupné na: <https://doi.org/10.1080/09296174.2013.799912> |

Citácie:

*1. [1.1] LI, Y. - GAO, Y. - LU, X.F. Effects of Word Limit on Sentence Length and Clause Length in Academic Journal Article Abstracts: A Synergetic Linguistic Perspective. In JOURNAL OF QUANTITATIVE LINGUISTICS. ISSN 0929-6174, OCT 2 2023, vol. 30, no. 3-4, p. 322-342. Dostupné na:* [*https://doi.org/10.1080/09296174.2023.2263249*](https://doi.org/10.1080/09296174.2023.2263249)*, Registrované v: WOS*

*2. [1.1] SUN, S.A. - XIAO, W. Active or descriptive: Textual activity and its dynamic changes of Ph.D. theses across disciplines. In GLOTTOMETRICS. ISSN 1617-8351, 2023, vol. 55, p. 44-58. Dostupné na:* [*https://doi.org/10.53482/2023\_55\_411*](https://doi.org/10.53482/2023_55_411)*, Registrované v: WOS*

*3. [1.2] DAI, Zheyuan - LIU, Haitao - YAN, Jianwei. Revisiting English written VP-ellipsis and VP-substitution: A dependency-based analysis. In Linguistics Vanguard, 2023-12-01, 9, 1, pp. 13-23. Dostupné na:* [*https://doi.org/10.1515/lingvan-2022-0088*](https://doi.org/10.1515/lingvan-2022-0088)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA21 | MAČUTEK, Ján. Why Do Parameter Values in the Zipf-Mandelbrot Distribution Sometimes Explode? In Journal of Quantitative Linguistics, 2022, vol. 29, no. 4, p. 413-424. (2021: 0.761 - IF, Q3 - JCR, 0.324 - SJR, Q2 - SJR). ISSN 0929-6174. Dostupné na: <https://doi.org/10.1080/09296174.2021.1887613> |

Citácie:

*1. [1.1] ZöRNIG, P. - BERG, T. Unifying Models for Word Length Distributions Based on Types and Tokens. In JOURNAL OF QUANTITATIVE LINGUISTICS. ISSN 0929-6174, APR 3 2023, vol. 30, no. 2, p. 167-182. Dostupné na:* [*https://doi.org/10.1080/09296174.2023.2202061*](https://doi.org/10.1080/09296174.2023.2202061)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA22 | MEDVEĎ, Milan - POSPÍŠIL, Michal. Generalized Laplace Transform and Tempered Ψ-Caputo Fractional Derivative. In Mathematical Modelling and Analysis, 2023, vol. 28, no. 1, p. 146-162. (2022: 1.8 - IF, Q1 - JCR, 0.451 - SJR, Q3 - SJR). ISSN 1392-6292. Dostupné na: <https://doi.org/10.3846/mma.2023.16370> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.2] BAROUDI, Sami - ELOMARI, M. 'hamed - EL MFADEL, Ali - KASSIDI, Abderrazak. NUMERICAL SOLUTIONS OF THE INTEGRO-PARTIAL FRACTIONAL DIFFUSION HEAT EQUATION INVOLVING TEMPERED ψCAPUTO FRACTIONAL DERIVATIVE. In Journal of Mathematical Sciences (United States), 2023-04-01, 271, 4, pp. 555-567. ISSN 10723374. Dostupné na:* [*https://doi.org/10.1007/s10958-023-06640-6*](https://doi.org/10.1007/s10958-023-06640-6)*, Registrované v: SCOPUS*

*2. [1.2] PALANISAMI, Dhanalakshmi - ELANGO, Shrilekha. Population Dynamics on Fractional Tumor System Using Laplace Transform and Stability Analysis. In International Journal of Robotics and Control Systems, 2023-01-01, 3, 3, pp. 417-432. Dostupné na:* [*https://doi.org/10.31763/ijrcs.v3i3.940*](https://doi.org/10.31763/ijrcs.v3i3.940)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA23 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Commutative, associative and non-decreasing functions continuous around diagonal. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 2, p. 31-48. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.6786](https://doi.org/10.22111/ijfs.2022.6786) |

Citácie:

*1. [1.1] ZHANG, B. - WAN, L. - WANG, C.Y. On the distributivity property of uninorms locally internal on the boundary over noncontinuous t-(co)norms. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, JUL-AUG 2023, vol. 20, no. 4, p. 137-152., Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA24 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - MESIAR, Radko - SU, Y. Ordinal sum constructions for aggregation functions on the real unit interval. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 1, p. 83-96. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.6553](https://doi.org/10.22111/ijfs.2022.6553) |

Citácie:

*1. [1.1] LUO, Yuqiong - ZHU, Kuanyun. Characterizations for the cross-migrativity between overlap functions and commutative aggregation functions. In INFORMATION SCIENCES, 2023, vol. 622, no., pp. 303-318. ISSN 0020-0255. Dostupné na:* [*https://doi.org/10.1016/j.ins.2022.11.122*](https://doi.org/10.1016/j.ins.2022.11.122)*, Registrované v: WOS*

*2. [1.1] TONGJUNDEE, P. - BOONYASRI, V. - TASENA, S. Characterization of bivariate quadratic transformations of quasi-copulas. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, AUG 2023, vol. 20, no. 4, p. 165-178., Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA25 | POSPÍŠIL, Michal - ŠKRIPKOVÁ, L. Representation of solution of neutral differential equations with delay and with linear parts defined by pairwise permutable matrices. In Miskolc Mathematical Notes, 2015, vol. 16, no. 1, p. 423-438. (2014: 0.229 - IF, Q4 - JCR, 0.270 - SJR, Q4 - SJR). (2015 - WOS, SCOPUS). ISSN 1787-2405. Dostupné na internete: <http://mat76.mat.uni-miskolc.hu/~mnotes/index.php?page=contents> |

Citácie:

*1. [1.1] MUTHUVEL, K. - SAWANGTONG, P. - KALIRAJ, K. A Note on the Connection between Non-Additive Entropy and h-Derivative. In FRACTAL AND FRACTIONAL. JUN 2023, vol. 7, no. 6. Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: WOS*

*2. [1.2] MUTHUVEL, Kothandapani - SAWANGTONG, Panumart - KALIRAJ, Kalimuthu. Relative Controllability of ψ-Caputo Fractional Neutral Delay Differential System. In Fractal and Fractional, 2023-06-01, 7, 6, art. nr. 437, 16 p.   
Dostupné na:* [*https://doi.org/10.3390/fractalfract7060437*](https://doi.org/10.3390/fractalfract7060437)*, Registrované v: SCOPUS*

*3. [3.1] AYDIN, M. - MAHMUDOV, N. I. Neutral multi-retarded fractional system, In Full text proceedings book from III. International Science and Innovation Congress, INSI 2022, Turkey, p. 101-104.*

|  |  |
| --- | --- |
| ADMA26 | POSPÍŠIL, Michal\*\*. Representation of solutions of systems of linear differential equations with multiple delays and nonpermutable variable coefficients. In Mathematical Modelling and Analysis, 2020, vol. 25, no. 2, p. 303-322. (2019: 0.957 - IF, Q2 - JCR, 0.351 - SJR, Q3 - SJR). ISSN 1392-6292. Dostupné na: <https://doi.org/10.3846/mma.2020.11194> |

Citácie:

*1. [1.1] LI, M.M. - FECKAN, M. - WANG, J.R. FINITE TIME STABILITY AND RELATIVE CONTROLLABILITYOF SECOND ORDER LINEAR DIFFERENTIAL SYSTEMSWITH PURE DELAY. In APPLICATIONS OF MATHEMATICS. ISSN 0862-7940, JUN 2023, vol. 68, no. 3, p. 305-327. Dostupné na:* [*https://doi.org/10.21136/AM.2022.0249-21*](https://doi.org/10.21136/am.2022.0249-21)*, Registrované v: WOS*

*2. [1.1] LIANG, Y.X. - SHI, Y. - FAN, Z.B. Exact solutions and Hyers-Ulam stability of fractional equations with double delays. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, FEB 2023, vol. 26, no. 1, p. 439-460. Dostupné na:* [*https://doi.org/10.1007/s13540-022-00122-3*](https://doi.org/10.1007/s13540-022-00122-3)*, Registrované v: WOS*

*3. [1.1] SULTANA, S. - GONZáLEZ-PARRA, G. - ARENAS, A.J. Mathematical Modeling of Toxoplasmosis in Cats with Two Time Delays under Environmental Effects. In MATHEMATICS. AUG 2023, vol. 11, no. 16. Dostupné na:* [*https://doi.org/10.3390/math11163463*](https://doi.org/10.3390/math11163463)*, Registrované v: WOS*

*4. [3.1] MALMSHA, A. J. - DIDA, M. A. - MOEBBS, S. Brute exhaustive optimization of intelligent small weighted voting ensembles in 1exp(-)z+ initial-term based arithmetic sequence';s multi precision search spaces, Journal of Mathematics and Informatics 25, 29-46, 2023, DOI: 10.22457/jmi.v25a04229.*

|  |  |
| --- | --- |
| ADMA27 | QIU, Wanzheng - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong. Convergence Analysis for Iterative Learning Control of Conformable Impulsive Differential Equations. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 193-212. (2021: 0.776 - IF, Q3 - JCR). ISSN 1735-8515. Dostupné na: <https://doi.org/10.1007/s41980-020-00510-6> |

Citácie:

*1. [1.1] PU, W.P. - LI, M.M. Existence and Ulam-type stability for impulsive oscillating systems with pure delay. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, DEC 2023, vol. 46, no. 18, p. 19018-19034. Dostupné na:* [*https://doi.org/10.1002/mma.9606*](https://doi.org/10.1002/mma.9606)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA28 | SEEMAB, Arjumand - REHMAN, Mujeeb ur - FEČKAN, Michal - ALZABUT, Jehad - ABBAS, Syed. On the Existence and Ulam–Hyers Stability of a New Class of (ϕ, χ)-Fractional Differential Equations With Impulses. In Filomat, 2021, vol. 35, no. 6, p. 1977-1991. (2020: 0.844 - IF, Q3 - JCR, 0.449 - SJR, Q2 - SJR). ISSN 0354-5180. Dostupné na: [https://doi.org/10.2298/FIL2106977S](https://doi.org/10.2298/fil2106977s) |

Citácie:

*1. [1.1] HOUAS, M. - SAMEI, M.E. Existence and Stability of Solutions for Linear and Nonlinear Damping of q-Fractional Duffing-Rayleigh Problem. In MEDITERRANEAN JOURNAL OF MATHEMATICS. ISSN 1660-5446, JUN 2023, vol. 20, no. 3. Dostupné na:* [*https://doi.org/10.1007/s00009-023-02355-9*](https://doi.org/10.1007/s00009-023-02355-9)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA29 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Controllability of Sobolev type fractional evolution systems. In Dynamics of Partial Differential Equations, 2014, vol. 11, no. 1, p. 71-87. (2013: 1.229 - IF, Q1 - JCR, 0.945 - SJR, Q2 - SJR). ISSN 1548-159X. |

Citácie:

*1. [1.1] AHMADOVA, A. Approximate Controllability of Stochastic Degenerate Evolution Equations: Decomposition of a Hilbert Space. In DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS. ISSN 0971-3514, 2023 JAN 31 2023. Dostupné na:* [*https://doi.org/10.1007/s12591-023-00631-4*](https://doi.org/10.1007/s12591-023-00631-4)*, Registrované v: WOS*

*2. [1.1] AHMED, A.M.S. - AHMED, H.M. - ABDALLA, N.S.E. - ABD-ELMONEM, A. - MOHAMED, E.M. Approximate controllability of Sobolev-type Atangana-Baleanu fractional differential inclusions with noise effect and Poisson jumps. In AIMS MATHEMATICS. 2023, vol. 8, no. 10, p. 25288-25310. Dostupné na:* [*https://doi.org/10.3934/math.20231290*](https://doi.org/10.3934/math.20231290)*, Registrované v: WOS*

*3. [1.2] SAYED AHMED, A. M. - AHMED, Hamdy M. - ABDALLA, Nesreen Sirelkhtam Elmki - ABD-ELMONEM, Assmaa - MOHAMED, E. M. Approximate controllability of Sobolev-type Atangana-Baleanu fractional differential inclusions with noise effect and Poisson jumps. In AIMS Mathematics, 2023-01-01, 8, 10, pp. 25288-25310. Dostupné na:* [*https://doi.org/10.3934/math.20231290*](https://doi.org/10.3934/math.20231290)*, Registrované v: SCOPUS*

*4. [1.2] VIJAYAKUMAR, V. - UDHAYAKUMAR, R. - ZHOU, Yong - SAKTHIVEL, N. Approximate controllability results for Sobolev-type delay differential system of fractional order without uniqueness. In Numerical Methods for Partial Differential Equations, 2023-09-01, 39, 5, pp. 3479-3498. ISSN 0749159X. Dostupné na:* [*https://doi.org/10.1002/num.22642*](https://doi.org/10.1002/num.22642)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA30 | WANG, JinRong - FEČKAN, Michal\*. Periodic solutions and stability of linear evolution equations with noninstantaneous impulses. In Miskolc Mathematical Notes, 2019, vol. 20, no. 2, p. 1299-1313. (2018: 0.468 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2019.2552](https://doi.org/10.18514/mmn.2019.2552) |

Citácie:

*1. [1.2] BENCHOHRA, Mouffak - BOURIAH, Soufyane - SALIM, Abdelkrim - ZHOU, Yong. Fractional differential equations: A coincidence degree approach. In Fractional Differential Equations: A Coincidence Degree Approach, 2023-11-20, pp. 1-32. Dostupné na:* [*https://doi.org/10.1515/9783111334387*](https://doi.org/10.1515/9783111334387)*, Registrované v: SCOPUS*

*2. [1.2] BENCHOHRA, Mouffak - KARAPINAR, Erdal - LAZREG, Jamal Eddine - SALIM, Abdelkrim. Advanced Topics in Fractional Differential Equations A Fixed Point Approach. In Synthesis Lectures on Mathematics and Statistics, 2023-01-01, pp. 1-177. ISSN 19381743., Registrované v: SCOPUS*

*3. [1.2] BENCHOHRA, Mouffak - KARAPINAR, Erdal - LAZREG, Jamal Eddine - SALIM, Abdelkrim. Introduction. In Synthesis Lectures on Mathematics and Statistics, 2023-01-01, part F835, pp. 1-13. ISSN 19381743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34877-8\_1*](https://doi.org/10.1007/978-3-031-34877-8_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMA31 | WANG, JinRong - DENG, JianHua - FEČKAN, Michal. Hermite-Hadamard-type inequalities for r-convex functions based on the use of Riemann-Liouville fractional integrals. In Ukrainian Mathematical Journal, 2013, vol. 65, no. 2, p. 193-211. (2012: 0.154 - IF, Q4 - JCR, 0.323 - SJR). ISSN 0041-5995. Dostupné na: <https://doi.org/10.1007/s11253-013-0773-y> |

Citácie:

*1. [1.1] KARAGöZLü, M. - ARDIç, M.A. New Integral Inequalities For r-Convex Functions. In PUNJAB UNIVERSITY JOURNAL OF MATHEMATICS. 2023, vol. 55, no. 9-10, p. 373-381. Dostupné na:* [*https://doi.org/10.52280/pujm.2023.55(9-10)03*](https://doi.org/10.52280/pujm.2023.55(9-10)03)*, Registrované v: WOS*

*2. [1.1] TARIQ, M. - NTOUYAS, S.K. - SHAIKH, A.A. A Comprehensive Review of the Hermite-Hadamard Inequality Pertaining to Fractional Integral Operators. In MATHEMATICS. APR 2023, vol. 11, no. 8. Dostupné na:* [*https://doi.org/10.3390/math11081953*](https://doi.org/10.3390/math11081953)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMA32 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Between group variance component interval estimation for the unbalanced heteroscedastic one-way random effects model. In Journal of Statistical Computation and Simulation, 2003, vol. 73, no. 5, p. 333-346. (2002: 0.223 - IF). (2003 - WOS, SCOPUS). ISSN 0094-9655. Dostupné na: <https://doi.org/10.1080/0094965021000038940> |

Citácie:

*1. [1.1] YE, R.D. - DU, W.X. - LU, Y.T. Bootstrap inference for skew-normal unbalanced heteroscedastic one-way classification random effects model. In JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION. ISSN 0094-9655, OCT 13 2023, vol. 93, no. 15, p. 2672-2702. Dostupné na:* [*https://doi.org/10.1080/00949655.2023.2202400*](https://doi.org/10.1080/00949655.2023.2202400)*, Registrované v: WOS*

*2. [1.1] YE, R.D. - DU, W.X. - LU, Y.T. Bootstrap inference for unbalanced one-way classification model with skew-normal random effects. In COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION. ISSN 0361-0918, 2023 JAN 11 2023. Dostupné na:* [*https://doi.org/10.1080/03610918.2023.2166533*](https://doi.org/10.1080/03610918.2023.2166533)*, Registrované v: WOS*

**ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMB01 | AGAOGLOU, Makrina - FEČKAN, Michal\*\* - PANAGIOTIDOU, Angeliki P. Existence and uniqueness of (ω,c)-periodic solutions of semilinear evolution equations. In International Journal of Dynamical Systems and Differential Equations : Int J Dynamical Systems and Differential Equations, 2020, vol. 10, no. 2, p. 149-166. (2019: 0.144 - SJR, Q3 - SJR). ISSN 1752-3583. Dostupné na: [https://doi.org/10.1504/IJDSDE.2020.106027](https://doi.org/10.1504/ijdsde.2020.106027) |

Citácie:

*1. [1.1] AL-OMARI, A. - AL-SAADI, H. (ω,ρ)-BVP Solution of Impulsive Hadamard Fractional Differential Equations. In MATHEMATICS. OCT 2023, vol. 11, no. 20. Dostupné na:* [*https://doi.org/10.3390/math11204370*](https://doi.org/10.3390/math11204370)*, Registrované v: WOS*

*2. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations Preface. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. V-+. Dostupné na:* [*https://doi.org/10.1515/9783111233871-201*](https://doi.org/10.1515/9783111233871-201)*, Registrované v: WOS*

*3. [1.1] KOSTIC, M. Metrical Almost Periodicity and Applications to Integro-Differential Equations. In METRICAL ALMOST PERIODICITY AND APPLICATIONS TO INTEGRO-DIFFERENTIAL EQUATIONS. ISSN 0179-0986, 2023, vol. 95, p. 1-543. Dostupné na:* [*https://doi.org/10.1515/9783111233871*](https://doi.org/10.1515/9783111233871)*, Registrované v: WOS*

*4. [1.1] YULDASHEV, T.K. - ABDUVAHOBOV, T.A. Periodic Solutions for an Impulsive System of Fractional Order Integro-Differential Equations with Maxima. In LOBACHEVSKII JOURNAL OF MATHEMATICS. ISSN 1995-0802, OCT 2023, vol. 44, no. 10, SI, p. 4401-4409. Dostupné na:* [*https://doi.org/10.1134/S1995080223100451*](https://doi.org/10.1134/s1995080223100451)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB02 | BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, Marián. New dynamic orderings for the parallel one-sided block-Jacobi SVD algorithm. In Parallel Processing Letters, 2015, vol. 25, no. 2, article number 1550003. (2014: 0.312 - SJR, Q3 - SJR). (2015 - SCOPUS). ISSN 0129-6264. Dostupné na: [https://doi.org/10.1142/S0129626415500036](https://doi.org/10.1142/s0129626415500036) |

Citácie:

*1. [1.1] NOVAKOVIC, V. VECTORIZATION OF A THREAD-PARALLEL JACOBI SINGULAR VALUE DECOMPOSITION METHOD. In SIAM JOURNAL ON SCIENTIFIC COMPUTING. ISSN 1064-8275, 2023, vol. 45, no. 3, p. C73-C100. Dostupné na:* [*https://doi.org/10.1137/22M1478847*](https://doi.org/10.1137/22m1478847)*, Registrované v: WOS*

*2. [1.1] SHANG, H.H. - FAN, Y. - SHEN, L. - GUO, C. - LIU, J. - DUAN, X.H. - LI, F. - LI, Z.Y. Towards practical and massively parallel quantum computing emulation for quantum chemistry. In NPJ QUANTUM INFORMATION. APR 7 2023, vol. 9, no. 1. Dostupné na:* [*https://doi.org/10.1038/s41534-023-00696-7*](https://doi.org/10.1038/s41534-023-00696-7)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB03 | BENIA, Kheireddine - BEDDANI, Moustafa - FEČKAN, Michal - HEDIA, Benaouda\*\*. Existence result for a problem involving ψ-Riemann-Liouville fractional derivative on unbounded domain. In Differential Equations and Applications, 2022, vol. 14, no. 1, p. 83-97. ISSN 1847-120X. Dostupné na: <https://doi.org/10.7153/dea-2022-14-06> |

Citácie:

*1. [1.1] APHITHANA, A. - SUDSUTAD, W. - KONGSON, J. - THAIPRAYOON, C. Measure of non-compactness for nonlocal boundary value problems via (k, ?)-Riemann-Liouville derivative on unbounded domain. In AIMS MATHEMATICS. 2023, vol. 8, no. 9, p. 20018-20047. Dostupné na:* [*https://doi.org/10.3934/math.20231020*](https://doi.org/10.3934/math.20231020)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB04 | BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LI, Baiyu - SMITH, Joshua. Quotient complexity of bifix-, factor-, and subword-free regular languages. In Acta Cybernetica, 2014, vol. 21, no. 4, p. 507-527. (2013: 0.139 - SJR, Q4 - SJR). ISSN 0324-721X. Dostupné na: <https://doi.org/10.14232/actacyb.21.4.2014.1> |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. The cut operation in subclasses of convex languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 969, art. nr. 114050. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114050*](https://doi.org/10.1016/j.tcs.2023.114050)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB05 | BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LIU, Bo - RAJASEKARAN, Aayush - SZYKUŁA, Marek. On the state complexity of the shuffle of regular languages. In Lecture Notes in Computer Science : Descriptional Complexity of Formal Systems, 2016, vol. 9777, p. 73-86. (2015: 0.369 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-319-41114-9_6> |

Citácie:

*1. [1.1] HOFFMANN, Stefan. Regularity Conditions for Iterated Shuffle on Commutative Regular Languages. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE, 2023, vol. 34, no. 08, pp. 923-957. ISSN 0129-0541. Dostupné na:* [*https://doi.org/10.1142/S0129054123430037*](https://doi.org/10.1142/s0129054123430037)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB06 | ČECH, Radek - BENEŠOVÁ, Barbora - MAČUTEK, Ján. Why does negation of the predicate shorten a clause? In Quantitative Approaches to Universality and Individuality in Language. 1. vydanie. - Berlin, Germany : de Gruyter, 2023, p. 1-9. ISBN 978-3-11-062808-1. Dostupné na: <https://doi.org/10.1515/9783110763560-001> (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing) |

Citácie:

*1. [1.1] GURYEV, Alexander - DELAFONTAINE, Francois. L';interrogative iin situ/i a la lumiere des principes de ';End-Weight'; et ';End-Focus';. In JOURNAL OF FRENCH LANGUAGE STUDIES, 2023, vol. 33, no. 3, pp. 299-323. ISSN 0959-2695. Dostupné na:* [*https://doi.org/10.1017/S0959269523000145*](https://doi.org/10.1017/s0959269523000145)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB07 | DANCA, Marius-F. - FEČKAN, Michal - POSPÍŠIL, Michal. Difference equations with impulses. In Opuscula Mathematica, 2019, vol. 39, no. 1, p. 5-22. (2018: 0.685 - SJR, Q2 - SJR). ISSN 1232-9274. Dostupné na: [https://doi.org/10.7494/OpMath.2019.39.1.5](https://doi.org/10.7494/opmath.2019.39.1.5) |

Citácie:

*1. [1.2] HRISTOVA, Snezhana - STEFANOVA, Kremena. Discrete Neural Networks with Maximum and Non-instantaneous Impulses with Computer Simulation. In Springer Proceedings in Mathematics and Statistics, NTADES 2022. 2023-01-01, 412, pp. 371-381. ISSN 21941009. Dostupné na:* [*https://doi.org/10.1007/978-3-031-21484-4\_33*](https://doi.org/10.1007/978-3-031-21484-4_33)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB08 | DILNA, Natália\*\* - GROMYAK, M - LESHCHUK, S. Unique Solvability of the Boundary-Value Problems for Nonlinear Fractional Functional Differential Equations. In Journal of Mathematical Sciences, 2022, vol. 265, no. 4, p. 577-588. (2021: 0.357 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-022-06072-8> |

Citácie:

*1. [3.1] ABDURAGIMOV, G.E. On the existence of a positive solution to a boundary value problem for a nonlinear functional-differential equation of fractional order. In Ecological Bulletin of Research Centers of The Black Sea Economic Cooperation. 2023. Vol. 20, no. 3, DOI:* [*https://doi.org/10.31429/vestnik-20-3-6-12*](https://doi.org/10.31429/vestnik-20-3-6-12)

|  |  |
| --- | --- |
| ADMB09 | DOBREV, Stefan - LAFOND, Manuel - NARAYANAN, Lata - OPATRNY, Jaroslav. Optimal local buffer management for information gathering with adversarial traffic. In Annual ACM Symposium on Parallelism in Algorithms and Architectures, 2017, p. 265-274. ISBN 978-1-4503-4593-4. Dostupné na: <https://doi.org/10.1145/3087556.3087577> |

Citácie:

*1. [1.1] MATSUI, C. - ROSENBAUM, W. Packet Forwarding with Swaps. In STRUCTURAL INFORMATION AND COMMUNICATION COMPLEXITY, SIROCCO 2023. ISSN 0302-9743, 2023, vol. 13892, p. 536-557. Dostupné na:* [*https://doi.org/10.1007/978-3-031-32733-9\_24*](https://doi.org/10.1007/978-3-031-32733-9_24)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB10 | FABRICIUS, René - ŠUCH, Ondrej. Detection of vowel segments in noise with ImageNet neural network architectures. In Transportation Research Procedia, 2021, vol. 55, p. 1289-1295. (2020: 0.657 - SJR). ISSN 2352-1465. Dostupné na: <https://doi.org/10.1016/j.trpro.2021.07.112> |

Citácie:

*1. [1.1] MEJIA LARA, Jennifer Vanessa - ARIAS VELASQUEZ, Ricardo Manuel. Low-cost image analysis with convolutional neural network for herpes zoster. In BIOMEDICAL SIGNAL PROCESSING AND CONTROL, 2022, vol. 71, no., pp. ISSN 1746-8094. Dostupné na:* [*https://doi.org/10.1016/j.bspc.2021.103250*](https://doi.org/10.1016/j.bspc.2021.103250)*, Registrované v: WOS*

*2. [3.1] TANJAYA, K.A. - NAUFAL, M.F. - ARWOKO, H. Pilates Pose Classification Using MediaPipe and Convolutional Neural Networks with Transfer Learning. In Journal Ilmiah Teknik Elektro Komputer dan Informatika, JITEKI, 2023, Vol. 9, no. 2, p. 212-222, ISSN: 2338-3070, DOI: 10.26555/jiteki.v9i2.25975.*

|  |  |
| --- | --- |
| ADMB11 | FEČKAN, Michal - POSPÍŠIL, Michal. Bifurcation from family of periodic orbits in discontinuous autonomous systems. In Differential Equations and Dynamical Systems, 2012, vol. 20, no. 3, s. 207-234. ISSN 0971-3514. |

Citácie:

*1. [1.1] LI, J. - GUO, Z.Y. - ZHU, S.T. - GAO, T. Bifurcation of periodic orbits and its application for high-dimensional piecewise smooth near integrable systems with two switching manifolds. In COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION. ISSN 1007-5704, JAN 2023, vol. 116. Dostupné na:* [*https://doi.org/10.1016/j.cnsns.2022.106840*](https://doi.org/10.1016/j.cnsns.2022.106840)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB12 | FEČKAN, Michal - URAZBOEV, Gayrat - BALTAEVA, Iroda. Inverse Scattering and Loaded Modified Korteweg-de Vries Equation. In Journal of Siberian Federal University. Mathematics and Physics, 2022, vol. 15, no. 2, p. 176-185. (2021: 0.267 - SJR, Q3 - SJR). ISSN 1997-1397. Dostupné na: <https://doi.org/10.17516/1997-1397-2022-15-2-176-185> |

Citácie:

*1. [1.2] KUZNETSOVA, Maria. Uniform Stability of Recovering Sturm–Liouville-Type Operators with Frozen Argument. In Results in Mathematics, 2023-10-01, 78, 5, pp. ISSN 14226383. Dostupné na:* [*https://doi.org/10.1007/s00025-023-01945-z*](https://doi.org/10.1007/s00025-023-01945-z)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB13 | GRENDÁR, Marián - JUDGE, G. Empty set problem of maximum empirical likelihood methods. In Electronic Journal of Statistics, 2009, vol. 3, p. 1542-1555. ISSN 1935-7524. Dostupné na: [https://doi.org/10.1214/09-EJS528](https://doi.org/10.1214/09-ejs528) |

Citácie:

*1. [1.1] VAN DER ARK, L.A. - BERGSMA, W.P. - KOOPMAN, L. Maximum Augmented Empirical Likelihood Estimation of Categorical Marginal Models for Large Sparse Contingency Tables. In PSYCHOMETRIKA. ISSN 0033-3123, DEC 2023, vol. 88, no. 4, p. 1228-1248. Dostupné na:* [*https://doi.org/10.1007/s11336-023-09932-7*](https://doi.org/10.1007/s11336-023-09932-7)*, Registrované v: WOS*

*2. [3.1] KIM, E. - MACEACHERN, S.N. - PERUGGIA, M. Regularized Exponentially Tilted Empirical Likelihood for Bayesian Inference. In arXiv, 2023,* [*https://doi.org/10.48550/arXiv.2312.17015*](https://doi.org/10.48550/arxiv.2312.17015)

|  |  |
| --- | --- |
| ADMB14 | GRENDÁR, Marián. Entropy and effective support size. In Entropy, 2006, vol. 8, no. 3, p. 169-174. (2005: 0.300 - SJR, Q3 - SJR). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e8030169> |

Citácie:

*1. [1.1] FOSTER, D.H. - NASCIMENTO, S.M.C. Little information loss with red-green color deficient vision in natural environments. In ISCIENCE. AUG 18 2023, vol. 26, no. 8. Dostupné na:* [*https://doi.org/10.1016/j.isci.2023.107421*](https://doi.org/10.1016/j.isci.2023.107421)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB15 | HALUŠKOVÁ, Emília. Some monounary algebras with EKP. In Mathematica Bohemica, 2020, vol. 145, no. 4, p. 401-414. (2019: 0.203 - SJR, Q4 - SJR). ISSN 0862-7959. Dostupné na: [https://doi.org/10.21136/MB.2019.0128-18](https://doi.org/10.21136/mb.2019.0128-18) |

Citácie:

*1. [1.2] CHAROENPOL, Aveya - CHOTWATTAKAWANIT, Udom. THE PRE-PERIOD OF THE GLUED SUM OF FINITE MODULAR LATTICES. In Discussiones Mathematicae General Algebra and Applications, 2023-01-01, 43, 2, pp. 223-231. ISSN 15099415. Dostupné na:* [*https://doi.org/10.7151/dmgaa.1420*](https://doi.org/10.7151/dmgaa.1420)*, Registrované v: SCOPUS*

*2. [1.2] CHOTWATTAKAWANIT, Udom - CHAROENPOL, Aveya. A PRE-PERIOD OF A FINITE DISTRIBUTIVE LATTICE. In Discussiones Mathematicae General Algebra and Applications, 2023-01-01, 43, 1, pp. 141-148. ISSN 15099415. Dostupné na:* [*https://doi.org/10.7151/dmgaa.1415*](https://doi.org/10.7151/dmgaa.1415)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB16 | HALUŠKOVÁ, Emília. Strong endomorphism kernel property for monounary algebras. In Mathematica Bohemica, 2018, vol. 143, no. 2, p. 161-171. (2017: 0.248 - SJR, Q3 - SJR). ISSN 0862-7959. Dostupné na: [https://doi.org/10.21136/MB.2017.0056-16](https://doi.org/10.21136/mb.2017.0056-16) |

Citácie:

*1. [1.2] CHAROENPOL, Aveya - CHOTWATTAKAWANIT, Udom. THE PRE-PERIOD OF THE GLUED SUM OF FINITE MODULAR LATTICES. In Discussiones Mathematicae General Algebra and Applications, 2023-01-01, 43, 2, pp. 223-231. ISSN 15099415. Dostupné na:* [*https://doi.org/10.7151/dmgaa.1420*](https://doi.org/10.7151/dmgaa.1420)*, Registrované v: SCOPUS*

*2. [1.2] CHOTWATTAKAWANIT, Udom - CHAROENPOL, Aveya. A PRE-PERIOD OF A FINITE DISTRIBUTIVE LATTICE. In Discussiones Mathematicae General Algebra and Applications, 2023-01-01, 43, 1, pp. 141-148. ISSN 15099415. Dostupné na:* [*https://doi.org/10.7151/dmgaa.1415*](https://doi.org/10.7151/dmgaa.1415)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB17 | HEINOSSARI, Teiko - LEPPÄJÄRVI, Leevi - PLÁVALA, Martin\*. No-free-information principle in general probabilistic theories. In Quantum : the open journal for quantum science, 2019, vol. 3, p. 157. (2019 - Current Contents, WOS, SCOPUS). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2019-07-08-157> |

Citácie:

*1. [1.1] GALLEY, T.D. - GIACOMINI, F. - SELBY, J.H. Any consistent coupling between classical gravity and quantum matter is fundamentally irreversible. In QUANTUM. ISSN 2521-327X, OCT 16 2023, vol. 7., Registrované v: WOS*

*2. [1.1] LAMI, L. - GOLDWATER, D. - ADESSO, G. A post-quantum associative memory. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, NOV 10 2023, vol. 56, no. 45. Dostupné na:* [*https://doi.org/10.1088/1751-8121/acfeb7*](https://doi.org/10.1088/1751-8121/acfeb7)*, Registrované v: WOS*

*3. [1.1] SELBY, J.H. - SCHMID, D. - WOLFE, E. - SAINZ, A.B. - KUNJWAL, R. - SPEKKENS, R.W. Accessible fragments of generalized probabilistic theories, cone equivalence, and applications to witnessing nonclassicality. In PHYSICAL REVIEW A. ISSN 2469-9926, JUN 6 2023, vol. 107, no. 6. Dostupné na:* [*https://doi.org/10.1103/PhysRevA.107.062203*](https://doi.org/10.1103/physreva.107.062203)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB18 | HOLZER, Markus - HOSPODÁR, Michal\*\*. The range of state complexities of languages resulting from the cut operation. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-030-13435-8_14> |

Citácie:

*1. [1.2] PONRAJ, Helen Vijitha - THAMBURAJ, Robinson - PARAMASIVAN, Meenakshi. 2D Oxide Picture Languages and Their Properties. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13348 LNCS, pp. 204-225. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-23612-9\_13*](https://doi.org/10.1007/978-3-031-23612-9_13)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB19 | HOSPODÁR, Michal - MLYNÁRČIK, Peter. Operations on permutation automata. In Lecture Notes in Computer Science : Developments in Language Theory, 2020, vol. 12086, p. 122-136. (2019: 0.427 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-030-48516-0_10> |

Citácie:

*1. [1.2] RADIONOVA, Maria - OKHOTIN, Alexander. Sweeping Permutation Automata. In Electronic Proceedings in Theoretical Computer Science, EPTCS, 2023-09-15, 388, pp. 110-124. ISSN 20752180. Dostupné na:* [*https://doi.org/10.4204/EPTCS.388.11*](https://doi.org/10.4204/eptcs.388.11)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB20 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Operations on Boolean and alternating finite automata. In Lecture Notes in Computer Science : Computer Science - Theory and Applications, 2018, vol. 10846, p. 181-193. (2017: 0.295 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-319-90530-3_16> |

Citácie:

*1. [1.1] DASSOW, J. - KUTRIB, M. - PIGHIZZINI, G. 25 EDITIONS OF DCFS: ORIGINS AND DIRECTIONS. In BULLETIN OF THE EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE. ISSN 0252-9742, OCT 2023, no. 141, p. 133-167., Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB21 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. A survey on fooling sets as effective tools for lower bounds on nondeterministic complexity. In Lecture Notes in Computer Science : Adventures Between Lower Bounds and Higher Altitudes, 2018, vol. 11011, p. 17-32. (2017: 0.295 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-319-98355-4_2> |

Citácie:

*1. [1.1] BERZISH, Murphy - DAY, Joel D. - GANESH, Vijay - KULCZYNSKI, Mitja - MANEA, Florin - MORA, Federico - NOWOTKA, Dirk. Towards more efficient methods for solving regular-expression heavy string constraints. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 943, no., pp. 50-72. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2022.12.009*](https://doi.org/10.1016/j.tcs.2022.12.009)*, Registrované v: WOS*

*2. [1.1] HOFFMANN, Stefan. State Complexity of Permutation and the Language Inclusion Problem up to Parikh Equivalence on Alphabetical Pattern Constraints and Partially Ordered NFAs. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE, 2023, vol. 34, no. 08, pp. 959-986. ISSN 0129-0541. Dostupné na:* [*https://doi.org/10.1142/S0129054123430025*](https://doi.org/10.1142/s0129054123430025)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB22 | JENČOVÁ, Anna. Comparison of quantum channels and statistical experiments. In IEEE International Symposium on Information Theory, 2016, vol., p. 2249-2253. (2015: 0.662 - SJR). (2016 - SCOPUS). ISSN 2157-8117. Dostupné na: [https://doi.org/10.1109/ISIT.2016.7541699](https://doi.org/10.1109/isit.2016.7541699) |

Citácie:

*1. [1.1] BUSCEMI, Francesco - KOBAYASHI, Kodai - MINAGAWA, Shintaro - PERINOTTI, Paolo - TOSINI, Alessandro. Unifying different notions of quantum incompatibility into a strict hierarchy of resource theories of communication. In QUANTUM, 2023, vol. 7, art. nr. 1035. ISSN 2521-327X., Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB23 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina\*. The exact complexity of star-complement-star. In Lecture Notes in Computer Science : Implementation and Application of Automata, 2018, vol. 10977, p. 223-235. (2017: 0.295 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-319-94812-6_19> |

Citácie:

*1. [1.2] CARON, Pascal - LUQUE, Jean Gabriel - PATROU, Bruno. Operational State Complexity Revisited: The Contribution of Monsters and Modifiers. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918   
  
LNCS, pp. 1-20. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_1*](https://doi.org/10.1007/978-3-031-34326-1_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB24 | JIRÁSKOVÁ, Galina - OKHOTIN, Alexander\*\*. State complexity of unambiguous operations on deterministic finite automata. In Lecture Notes in Computer Science : Descriptional Complexity of Formal Systems, 2018, vol. 10952, p. 188-199. (2017: 0.295 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-319-94631-3_16> |

Citácie:

*1. [1.2] CZERWISKI, Wojciech - DBSKI, Maciej - GOGASZ, Tomasz - HOI, Gordon - JAIN, Sanjay - SKRZYPCZAK, Micha - STEPHAN, Frank - TAN, Christopher. Languages Given by Finite Automata over the Unary Alphabet. In Leibniz International Proceedings in Informatics, LIPIcs, 2023-12-01, 284. ISSN 18688969. Dostupné na:* [*https://doi.org/10.4230/LIPIcs.FSTTCS.2023.22*](https://doi.org/10.4230/lipics.fsttcs.2023.22)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB25 | MEDVEĎ, Milan - POSPÍŠIL, Michal\*. Representation of solutions of systems of linear differential equations with multiple delays and linear parts given by nonpermutable matrices. In Journal of Mathematical Sciences, 2018, vol. 228, no. 3, p. 276-289. (2017: 0.304 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-017-3620-0> |

Citácie:

*1. [1.1] CASTRO, M. Angeles - MAYORGA, Carlos J. J. - SIRVENT, Antonio - RODRIGUEZ, Francisco. Exact numerical solutions and high order nonstandard difference schemes for a second order delay differential equation. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 2023, vol. 46, no. 17, pp. 17962-17979. ISSN 0170-4214. Dostupné na:* [*https://doi.org/10.1002/mma.9540*](https://doi.org/10.1002/mma.9540)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB26 | NEDELA, Roman\*\* - PONOMARENKO, Ilia. Recognizing and Testing Isomorphism of Cayley Graphs over an Abelian Group of Order 4p in Polynomial Time. In Springer Proceedings in Mathematics and Statistics 305 : Isomorphisms, Symmetry and Computations in Algebraic Graph Theory. - Springer, 2020, 2020, vol. 305, p. 195-218. ISBN 978-3-030-32808-5. Dostupné na: <https://doi.org/10.1007/978-3-030-32808-5_7> |

Citácie:

*1. [1.2] GUO, Jin - GUO, Wenbin - RYABOV, Grigory - VASIL'EV, Andrey V. On Cayley representations of central Cayley graphs over almost simple groups. In Journal of Algebraic Combinatorics, 2023-02-01, 57, 1, pp. 227-237. ISSN 09259899. Dostupné na:* [*https://doi.org/10.1007/s10801-022-01166-7*](https://doi.org/10.1007/s10801-022-01166-7)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB27 | POSPÍŠIL, Michal. Laplace transform, gronwall inequality and delay differential equations for general conformable fractional derivative. In Communications in Mathematical Analysis, 2019, vol. 22, no. 1, p. 14-33. (2018: 0.167 - SJR, Q4 - SJR). ISSN 1938-9787. |

Citácie:

*1. [1.1] MAHMUDOV, Nazim I. - AKGUN, Guelbahar. A Study on Existence and Controllability of Conformable Impulsive Equations. In AXIOMS, 2023, vol. 12, no. 8, art. nr. 787. Dostupné na:* [*https://doi.org/10.3390/axioms12080787*](https://doi.org/10.3390/axioms12080787)*, Registrované v: WOS*

*2. [1.1] QIU, Wanzheng - FECKAN, Michal - O';REGAN, Donal - WANG, JinRong. Convergence Analysis for Iterative Learning Control of Conformable Impulsive Differential Equations. In BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, 2022, vol. 48, no. 1, pp. 193-212. ISSN 1017-060X. Dostupné na:* [*https://doi.org/10.1007/s41980-020-00510-6*](https://doi.org/10.1007/s41980-020-00510-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB28 | POSPÍŠIL, Michal. A note on fractional difference equations with periodic and S-asymptotically periodic right-hand sides. In Journal of Mathematical Sciences, 2022, vol. 265, no. 4, p. 669-681. (2021: 0.357 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-022-06079-1> |

Citácie:

*1. [1.1] FECKAN, Michal - DANCA, Marius-F. Non-Periodicity of Complex Caputo Like Fractional Differences. In FRACTAL AND FRACTIONAL, 2023, vol. 7, no. 1, art. nr. 68, 13 p. Dostupné na:* [*https://doi.org/10.3390/fractalfract7010068*](https://doi.org/10.3390/fractalfract7010068)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB29 | REPICKÝ, Miroslav. Spaces not distinguishing ideal convergences of real-valued functions, II. In Real Analysis Exchange, 2021, vol. 46, no. 2, p. 395-422. (2020: 0.229 - SJR, Q4 - SJR). ISSN 0147-1937. Dostupné na: <https://doi.org/10.14321/realanalexch.46.2.0395> |

Citácie:

*1. [1.1] BARDYLA, Serhii - SUPINA, Jaroslav - ZDOMSKYY, Lyubomyr. IDEAL APPROACH TO CONVERGENCE IN FUNCTIONAL SPACES. In TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY, 2023, vol. 376, no. 12, pp. 8495-8528. ISSN 0002-9947. Dostupné na:* [*https://doi.org/10.1090/tran/9008*](https://doi.org/10.1090/tran/9008)*, Registrované v: WOS*

*2. [1.1] SUPINA, Jaroslav. Pseudointersection numbers, ideal slaloms, topological spaces, and cardinal inequalities. In ARCHIVE FOR MATHEMATICAL LOGIC, 2023, vol. 62, no. 1-2, pp. 87-112. ISSN 0933-5846. Dostupné na:* [*https://doi.org/10.1007/s00153-022-00832-8*](https://doi.org/10.1007/s00153-022-00832-8)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB30 | REPICKÝ, Miroslav. Spaces not distinguishing ideal convergences of real-valued functions. In Real Analysis Exchange, 2021, vol. 46, no. 2, p. 367-394. (2020: 0.229 - SJR, Q4 - SJR). ISSN 0147-1937. Dostupné na: <https://doi.org/10.14321/realanalexch.46.2.0367> |

Citácie:

*1. [1.1] BARDYLA, Serhii - SUPINA, Jaroslav - ZDOMSKYY, Lyubomyr. IDEAL APPROACH TO CONVERGENCE IN FUNCTIONAL SPACES. In TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY, 2023, vol. 376, no. 12, p. 8495-8528. ISSN 0002-9947. Dostupné na:* [*https://doi.org/10.1090/tran/9008*](https://doi.org/10.1090/tran/9008)*, Registrované v: WOS*

*2. [1.1] SUPINA, Jaroslav. Pseudointersection numbers, ideal slaloms, topological spaces, and cardinal inequalities. In ARCHIVE FOR MATHEMATICAL LOGIC, 2023, vol. 62, no. 1-2, pp. 87-112. ISSN 0933-5846. Dostupné na:* [*https://doi.org/10.1007/s00153-022-00832-8*](https://doi.org/10.1007/s00153-022-00832-8)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB31 | SOTIROVA, Evdokia\*\* - SHANNON, Anthony G. - KIM, Taekyun - KRAWCZAK, Maciej - MELO-PINTO, Pedro - RIEČAN, Beloslav. Intuitionistic fuzzy evaluations for the analysis of a student's knowledge in university e-learning courses. In Studies in Computational Intelligence : Ituitionistic Fuzziness and Other Intelligent Theories and Their Applications. - Springer Nature, 2019, vol. 757, p. 95-100. (2018: 0.183 - SJR, Q4 - SJR). ISBN 978-3-319-78930-9. ISSN 1860-949X. Dostupné na: <https://doi.org/10.1007/978-3-319-78931-6_6> |

Citácie:

*1. [1.1] HALVONIK, Dominik - KAPUSTA, Jozef - MUNK, Michal. Improve estimated time-on-task calculation in a Virtual Learning Environment. In INTERACTIVE LEARNING ENVIRONMENTS, 2023, vol. 31, no. 5, pp. 2914-2929. ISSN 1049-4820. Dostupné na:* [*https://doi.org/10.1080/10494820.2021.1913609*](https://doi.org/10.1080/10494820.2021.1913609)*, Registrované v: WOS*

*2. [1.2] PETROV, Petar - BUREVA, Veselina - ATANASSOV, Krassimir. Intuitionistic Fuzzy Evaluations of Garbage Sorting Using a Robotic Arm. In Lecture Notes in Networks and Systems, 2023-01-01, 758 LNNS, pp. 259-264. ISSN 23673370. Dostupné na:* [*https://doi.org/10.1007/978-3-031-39774-5\_32*](https://doi.org/10.1007/978-3-031-39774-5_32)*, Registrované v: SCOPUS*

*3. [1.2] TODOROV, Milen - BUREVA, Veselina. Selecting an Employer: Evaluation of University Students' Perception About Business Companies Assessed by Intuitionistic Fuzzy Logic. In Lecture Notes in Networks and Systems, 2023-01-01, 758 LNNS, pp. 227-233. ISSN 23673370. Dostupné na:* [*https://doi.org/10.1007/978-3-031-39774-5\_28*](https://doi.org/10.1007/978-3-031-39774-5_28)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB32 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. On the stability of first order impulsive evolution equations. In Opuscula Mathematica, 2014, vol. 34, no. 3, p. 639-657. (2013: 0.159 - SJR, Q4 - SJR). ISSN 1232-9274. |

Citácie:

*1. [1.1] SHAH, S.O. - RIZWAN, R. - XIA, Y.H. - ZADA, A. Existence, uniqueness, and stability analysis of fractional Langevin equations with anti-periodic boundary conditions. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, NOV 30 2023, vol. 46, no. 17, p. 17941-17961. Dostupné na:* [*https://doi.org/10.1002/mma.9539*](https://doi.org/10.1002/mma.9539)*, Registrované v: WOS*

*2. [1.1] SHAH, S.O. - TIKARE, S. - OSMAN, M. Ulam Type Stability Results of Nonlinear Impulsive Volterra-Fredholm Integro-Dynamic Adjoint Equations on Time Scale. In MATHEMATICS. NOV 2023, vol. 11, no. 21. Dostupné na:* [*https://doi.org/10.3390/math11214498*](https://doi.org/10.3390/math11214498)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADMB33 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order iterative functional differential equations with parameter. In Applied Mathematical Modelling, 2013, vol. 37, no. 8, p. 6055-6067. Dostupné na: <https://doi.org/10.1016/j.apm.2012.12.011> |

Citácie:

*1. [1.2] YONG, Zhou. BASIC THEORY OF Fractional Differential Equations, Third Edition. In Basic Theory of Fractional Differential Equations, Third Edition, 2023-01-01, pp. 1-501., Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADMB34 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Nonexistence of periodic solutions and asymptotically periodic solutions for fractional differential equations. In Communications in Nonlinear Science and Numerical Simulation, 2013, vol. 18, no. 2, p. 246-256. Dostupné na: <https://doi.org/10.1016/j.cnsns.2012.07.004> |

Citácie:

*1. [1.1] EDELMAN, M. - HELMAN, A.B. - SMIDTAITE, R. Bifurcations and transition to chaos in generalized fractional maps of the orders 0 &lt; a &lt; 1. In CHAOS. ISSN 1054-1500, JUN 2023, vol. 33, no. 6. Dostupné na:* [*https://doi.org/10.1063/5.0151812*](https://doi.org/10.1063/5.0151812)*, Registrované v: WOS*

*2. [1.1] SHANKAR, M. - BORA, S.N. Caputo-fabrizio fractional-order systems: periodic solution and stabilization of non-periodic solution with application to gunn diode oscillator. In PHYSICA SCRIPTA. ISSN 0031-8949, DEC 1 2023, vol. 98, no. 12. Dostupné na:* [*https://doi.org/10.1088/1402-4896/ad0c12*](https://doi.org/10.1088/1402-4896/ad0c12)*, Registrované v: WOS*

**ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADNA01 | ABBAS, Mohamed I. - FEČKAN, Michal. Investigation of an Implicit Hadamard Fractional Differential Equation with Riemann-Stieltjes Integral Boundary Condition. In Mathematica Slovaca, 2022, vol. 72, no. 4, p. 925-934. (2021: 0.996 - IF, Q2 - JCR, 0.432 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2022-0063> |

Citácie:

*1. [1.1] ALSULAMI, M. Existence theory for a third-order ordinary differential equation with non-separated multi-point and nonlocal Stieltjes boundary conditions. In AIMS MATHEMATICS. 2023, vol. 8, no. 6, p. 13572-13592. Dostupné na:* [*https://doi.org/10.3934/math.2023689*](https://doi.org/10.3934/math.2023689)*, Registrované v: WOS*

*2. [1.1] BOHNER, M. - DOMOSHNITSKY, A. - LITSYN, E. - PADHI, S. - SRIVASTAVA, S.N. Vallée-Poussin theorem for Hadamard fractional functional differential equations. In APPLIED MATHEMATICS IN SCIENCE AND ENGINEERING. DEC 31 2023, vol. 31, no. 1. Dostupné na:* [*https://doi.org/10.1080/27690911.2023.2259057*](https://doi.org/10.1080/27690911.2023.2259057)*, Registrované v: WOS*

*3. [1.1] NYAMORADI, N. - AHMAD, B. Generalized Fractional Differential Systems with Stieltjes Boundary Conditions. In QUALITATIVE THEORY OF DYNAMICAL SYSTEMS. ISSN 1575-5460, MAR 2023, vol. 22, no. 1. Dostupné na:* [*https://doi.org/10.1007/s12346-022-00703-w*](https://doi.org/10.1007/s12346-022-00703-w)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA02 | ALI, Muhammad Aamir - BUDAK, Huseyin - FEČKAN, Michal - KHAN, Sundas. A new version of q-Hermite-Hadamard's midpoint and trapezoid type inequalities for convex functions. In Mathematica Slovaca, 2023, vol. 73, no. 2, p. 369-386. (2022: 1.6 - IF, Q1 - JCR, 0.418 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2023-0029> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

Citácie:

*1. [1.1] BIN-MOHSIN, B. - JAVED, M.Z. - AWAN, M.U. - KHAN, A.G. - CESARANO, C. - NOOR, M.A. Exploration of Quantum Milne-Mercer-Type Inequalities with Applications. In SYMMETRY-BASEL. MAY 16 2023, vol. 15, no. 5. Dostupné na:* [*https://doi.org/10.3390/sym15051096*](https://doi.org/10.3390/sym15051096)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA03 | BORSÍK, Ján - HOLOS, J. Some properties of porouscontinuous functions. In Mathematica Slovaca, 2014, vol. 64, p. 741-750. (2013: 0.451 - IF, Q3 - JCR, 0.284 - SJR, Q3 - SJR). (2014 - WOS). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-014-0237-3> |

Citácie:

*1. [1.1] KOWALCZYK, S. - TUROWSKA, M. On Topologies Generated by Lower Porosity. In RESULTS IN MATHEMATICS. ISSN 1422-6383, DEC 2022, vol. 77, no. 6. Dostupné na:* [*https://doi.org/10.1007/s00025-022-01754-w*](https://doi.org/10.1007/s00025-022-01754-w)*, Registrované v: WOS*

*2. [2.1] KOWALCZYK, S. - TUROWSKA, M. Topologies generated by symmetric porosity on normed spaces. In MATHEMATICA SLOVACA. ISSN 0139-9918, AUG 26 2022, vol. 72, no. 4, p. 1031-1046. Dostupné na:* [*https://doi.org/10.1515/ms-2022-0072*](https://doi.org/10.1515/ms-2022-0072)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA04 | ČERNÁK, Štefan - JAKUBÍK, Ján. Weak relatively uniform convergences on MV-algebras. In Mathematica Slovaca, 2013, vol. 63, s. 13-32. (2012: 0.394 - IF, Q4 - JCR, 0.443 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-012-0078-x> |

Citácie:

*1. [1.2] RAJABISOTUDEH, Farzaneh - KOUHESTANI, Nader - REZAEI, Gholam Reza. SOME RESULTS ON UNIFORM MV-ALGEBRAS. In Algebraic Structures and their Applications, 2023-02-01, 10, 1, pp. 95-112. Dostupné na:* [*https://doi.org/10.22034/as.2022.2818*](https://doi.org/10.22034/as.2022.2818)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADNA05 | CHOVANEC, Ferdinand. Graphic representation of MV-algebra pastings. In Mathematica Slovaca, 2013, vol. 63, no. 2, s. 349-380. (2012: 0.394 - IF, Q4 - JCR, 0.443 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-013-0102-9> |

Citácie:

*1. [1.1] CHAJDA, Ivan - FAZIO, Davide - LANGER, Helmut - LEDDA, Antonio - PASEKA, Jan. Algebraic Properties of Paraorthomodular Posets. In LOGIC JOURNAL OF THE IGPL, 2022, vol. 30, no. 5, pp. 840-869. ISSN 1367-0751. Dostupné na:* [*https://doi.org/10.1093/jigpal/jzab024*](https://doi.org/10.1093/jigpal/jzab024)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA06 | JAKUBEC, Stanislav. Connection between multiplication theorem for Bernoulli polynomials and first factor h\_{p}^{‾}. In Mathematica Slovaca, 2017, vol. 67, no. 2, p. 345-348. (2016: 0.346 - IF, Q4 - JCR, 0.498 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2016-0270> |

Citácie:

*1. [1.1] WANG, N.L. - CHAKRABORTY, K. - KANEMITSU, S. Unification of Chowla';s Problem and Maillet- Demyanenko Determinants. In MATHEMATICS. FEB 2023, vol. 11, no. 3. Dostupné na:* [*https://doi.org/10.3390/math11030655*](https://doi.org/10.3390/math11030655)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA07 | JAKUBÍK, Ján. Torsion classes of abelian cyclically ordered groups. In Mathematica Slovaca, 2012, vol. 62, no. 4, s. 633-646. (2011: 0.269 - IF, Q4 - JCR, 0.407 - SJR, Q3 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.2478/s12175-012-0036-7> |

Citácie:

*1. [1.1] ROSJANUARDI, R. - GOZALI, S.M. - ALBANIA, I.N. c-Convex Subgroups of Finite Dimensional Cyclically Ordered Free Abelian Groups. In INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE. ISSN 1814-0424, 2023, vol. 18, no. 1, p. 37-45., Registrované v: WOS*

|  |  |
| --- | --- |
| ADNA08 | KAŇUCHOVÁ, Mária - ORAVCOVÁ, Andrea - SISOL, Martin - KOŠČOVÁ, Michaela - KOZÁKOVÁ, Ľubica. Leaching of gold from flotation waste by thiourea. In Acta Montanistica Slovaca, 2021, vol. 26, no. 1, p. 98-105. (2020: 1.413 - IF, Q3 - JCR, 0.472 - SJR, Q2 - SJR). ISSN 1335-1788. Dostupné na: [https://doi.org/10.46544/AMS.v26i1.08](https://doi.org/10.46544/ams.v26i1.08) |

Citácie:

*1. [1.2] ACKER, Sophie - NAMYSLO, Jan C. - RUDOLPH, Martin - STRUBE, Franziska - FITTSCHEN, Ursula E.A. - QIU, Hao - GOLDMANN, Daniel - SCHMIDT, Andreas. Polyether-tethered imidazole-2-thiones, imidazole-2-selenones and imidazolium salts as collectors for the flotation of lithium aluminate and spodumene. In RSC Advances, 2023-02-27, 13, 10, pp. 6593-6605. Dostupné na:* [*https://doi.org/10.1039/d2ra07627f*](https://doi.org/10.1039/d2ra07627f)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADNA09 | LIU, Shengda - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Iterative learning control with pulse compensation for fractional differential systems. In Mathematica Slovaca, 2018, vol. 68, no. 3, p. 563-574. (2017: 0.314 - IF, Q4 - JCR, 0.339 - SJR, Q3 - SJR). (2018 - WOS, SCOPUS). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2017-0125> |

Citácie:

*1. [1.1] LI, L. Convergence properties concerning Lebesgue-p norm of iterative learning control for a class of fractional differential systems. In ASIAN JOURNAL OF CONTROL. ISSN 1561-8625, SEP 2023, vol. 25, no. 5, p. 3965-3977. Dostupné na:* [*https://doi.org/10.1002/asjc.3090*](https://doi.org/10.1002/asjc.3090)*, Registrované v: WOS*

*2. [1.2] SHIRI, Babak - WU, Guo Cheng - BALEANU, Dumitru. Applications of Short Memory Fractional Differential Equations with Impulses. In Discontinuity, Nonlinearity, and Complexity, 2023-01-01, 12, 1, pp. 167-182. ISSN 21646376. Dostupné na:* [*https://doi.org/10.5890/DNC.2023.03.012*](https://doi.org/10.5890/dnc.2023.03.012)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADNA10 | ŠIMKOVÁ, Zuzana\*\* - KRZYZEWSKA, Iwona - KOŠČOVÁ, Michaela - DANDA, Roman. Evaluation of the connection of innovation activities within selected OECD countries in the area of Construction Minerals. In Acta Montanistica Slovaca, 2022, vol. 27, p. 190-200. (2021: 1.833 - IF, Q3 - JCR, 0.284 - SJR, Q3 - SJR). ISSN 1335-1788. Dostupné na: [https://doi.org/10.46544/AMS.v27il.14](https://doi.org/10.46544/ams.v27il.14) |

Citácie:

*1. [1.1] NGUYEN, T.L.P. - NGUYEN, T.T.H. - KLJUCNIKOV, A. The influence of socially responsible human resource management on green behaviours in the aviation industry. In JOURNAL OF COMPETITIVENESS. ISSN 1804-171X, JUN 2023, vol. 15, no. 2. Dostupné na:* [*https://doi.org/10.7441/joc.2023.02.10*](https://doi.org/10.7441/joc.2023.02.10)*, Registrované v: WOS*

*2. [1.1] SIDOR, C. - KRSáK, B. - STRBA, L. Basic Input Data for Audiences'; Geotargeting by Destinations'; Partial Accessibility: Notes from Slovakia. In DATA. FEB 2023, vol. 8, no. 2. Dostupné na:* [*https://doi.org/10.3390/data8020024*](https://doi.org/10.3390/data8020024)*, Registrované v: WOS*

**ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADNB01 | ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/measurement47340.2019.8779893> |

Citácie:

*1. [1.1] XIE, Y. - YU, Y.T. - LI, L.T. Discrete Wavelet Transform-Based Metal Material Analysis Model by Constant Phase Angle Pulse Eddy Current Method. In APPLIED SCIENCES-BASEL. MAR 2023, vol. 13, no. 5. Dostupné na:* [*https://doi.org/10.3390/app13053207*](https://doi.org/10.3390/app13053207)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNB02 | LUO, Dahui - WANG, JinRong - FEČKAN, Michal. Applying fractional calculus to analyze economic growth modelling. In Journal of Applied Mathematics, Statistics and Informatics, 2018, vol. 14, no. 1, p. 25-36. ISSN 1339-0015. Dostupné na: <https://doi.org/10.2478/jamsi-2018-0003> |

Citácie:

*1. [1.1] ALZABUT, J. - SELVAM, A.G.M. - VIGNESH, D. - ETEMAD, S. - REZAPOUR, S. Stability analysis of tempered fractional nonlinear Mathieu type equation model of an ion motion with octopole-only imperfections. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, MAY 30 2023, vol. 46, no. 8, p. 9542-9554. Dostupné na:* [*https://doi.org/10.1002/mma.9073*](https://doi.org/10.1002/mma.9073)*, Registrované v: WOS*

*2. [1.1] BEDDANI, M. - BEDDANI, H. Compactness of boundary value problems for impulsive integro-differential equation. In FILOMAT. ISSN 0354-5180, 2023, vol. 37, no. 20, p. 6855-6866. Dostupné na:* [*https://doi.org/10.2298/FIL2320855B*](https://doi.org/10.2298/fil2320855b)*, Registrované v: WOS*

*3. [1.1] HOLEL, M.A. - HASAN, S.Q. The Necessary and Sufficient Optimality Conditions for a System of FOCPs with Caputo-Katugampola Derivatives. In BAGHDAD SCIENCE JOURNAL. ISSN 2078-8665, 2023, vol. 20, no. 5, p. 1713-1721. Dostupné na:* [*https://doi.org/10.21123/bsj.2023.7515*](https://doi.org/10.21123/bsj.2023.7515)*, Registrované v: WOS*

*4. [1.1] KUMAR, A. - SANTRA, P.K. - MAHAPATRA, G.S. Fractional order inventory system for time-dependent demand influenced by reliability and memory effect of promotional efforts?. In COMPUTERS & INDUSTRIAL ENGINEERING.   
  
ISSN 0360-8352, MAY 2023, vol. 179. Dostupné na:* [*https://doi.org/10.1016/j.cie.2023.109191*](https://doi.org/10.1016/j.cie.2023.109191)*, Registrované v: WOS*

*5. [1.1] UZUN, T.Y. - ÖZTüRK, S. Oscillation criteria for fractional differential equations with a distributed delay. In SOFT COMPUTING. ISSN 1432-7643, JUL 2023, vol. 27, no. 13, p. 8517-8523. Dostupné na:* [*https://doi.org/10.1007/s00500-023-08228-3*](https://doi.org/10.1007/s00500-023-08228-3)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNB03 | PELEGRINOVÁ, Kateřina - MAČUTEK, Ján - ČECH, Radek. The Menzerath-Altmann law as the relation between lengths of words and morphemes in Czech. In Jazykovedný časopis, 2021, roč. 72, č. 2, s. 405-414. (2020: 0.186 - SJR, Q2 - SJR). (2021 - SCOPUS). ISSN 0021-5597. Dostupné na: <https://doi.org/10.2478/jazcas-2021-0037> |

Citácie:

*1. [1.1] MILICKA, Jiri. Menzerath';s law: Is it just regression toward the mean? In GLOTTOMETRICS, 2023, vol. 55, no., pp. 1-16. ISSN 1617-8351. Dostupné na:* [*https://doi.org/10.53482/2023\_55\_409*](https://doi.org/10.53482/2023_55_409)*, Registrované v: WOS*

|  |  |
| --- | --- |
| ADNB04 | SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In Tatra Mountains Mathematical Publications, 2016, vol. 66, p. 103-120. (2015: 0.244 - SJR, Q4 - SJR). ISSN 1210-3195. Dostupné na: <https://doi.org/10.1515/tmmp-2016-0024> |

Citácie:

*1. [1.1] ARYA, Adarsh Kumar - JAIN, Rishi - YADAV, Shreyash - BISHT, Sachin - GAUTAM, Shashank. Recent trends in gas pipeline optimization. In MATERIALS TODAY-PROCEEDINGS, 2022, vol. 57, no., pp. 1455-1461. ISSN 2214-7853. Dostupné na:* [*https://doi.org/10.1016/j.matpr.2021.11.232*](https://doi.org/10.1016/j.matpr.2021.11.232)*, Registrované v: WOS*

*2. [1.1] ARYA, Adarsh Kumar - KATIYAR, Rajesh - KUMAR, P. Senthil - KAPOOR, Ashish - PAL, Dan Bahadur - RANGASAMY, Gayathri. A multi-objective model for optimizing hydrogen injected-high pressure natural gas pipeline networks. In INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 2023, vol. 48, no. 76, pp. 29699-29723. ISSN 0360-3199. Dostupné na:* [*https://doi.org/10.1016/j.ijhydene.2023.04.133*](https://doi.org/10.1016/j.ijhydene.2023.04.133)*, Registrované v: WOS*

*3. [1.2] BATAYEV, Nurlan - SULEIMENOV, Batyrbek - BATAYEVA, Sagira. Centrifugal compressor anti-surge control system modelling. In International Journal of Electrical and Computer Engineering, 2022-04-01, 12, 2, pp. 1419-1428. ISSN 20888708. Dostupné na:* [*https://doi.org/10.11591/ijece.v12i2.pp1419-1428*](https://doi.org/10.11591/ijece.v12i2.pp1419-1428)*, Registrované v: SCOPUS*

*4. [1.2] PRYTULA, Myroslav - PRYTULA, Nazar - PYANYLO, Yaroslav - PRYTULA, Zoia - KHYMKO, Olga. PLANNING OPTIMAL OPERATING MODES OF UNDERGROUND GAS STORAGE FACILITIES AS PART OF THE GAS TRANSMISSION SYSTEM. In Eastern-European Journal of Enterprise Technologies, 2022-01-01, 3, 2-117, pp. 76-91. ISSN 17293774. Dostupné na:* [*https://doi.org/10.15587/1729-4061.2022.258953*](https://doi.org/10.15587/1729-4061.2022.258953)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| ADNB05 | WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALENČÁR, R. Brief overview of methods for measurement uncertainty analysis: GUM uncertainty framework, Monte Carlo method, characteristic function approach. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 35-38. ISBN 978-80-972629-0-7. Dostupné na: [https://doi.org/10.23919/MEASUREMENT.2017.7983530](https://doi.org/10.23919/measurement.2017.7983530) |

Citácie:

*1. [1.1] CHEN, Y.F. - CHEN, J.X. - QU, J.Y. - LI, T. - SUN, S.W. Health risk assessment of dietary cadmium intake in children aged 2-17 years in East China. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, JUL 2023, vol. 45, no. 7, p. 5311-5322. Dostupné na:* [*https://doi.org/10.1007/s10653-023-01562-3*](https://doi.org/10.1007/s10653-023-01562-3)*, Registrované v: WOS*

*2. [1.1] GUO, C. - QIU, S. - NI, T.L. - WANG, B.J. - LIU, Q.X. Fast Phase Recognition of Mechanical Helical Phased Array Antenna Element Based on Line-Scan Machine Vision. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. ISSN 0018-9456, 2023, vol. 72. Dostupné na:* [*https://doi.org/10.1109/TIM.2023.3329160*](https://doi.org/10.1109/tim.2023.3329160)*, Registrované v: WOS*

*3. [1.1] HUANG, H.N. A propensity-based framework for measurement uncertainty analysis. In MEASUREMENT. ISSN 0263-2241, MAY 31 2023, vol. 213. Dostupné na:* [*https://doi.org/10.1016/j.measurement.2023.112693*](https://doi.org/10.1016/j.measurement.2023.112693)*, Registrované v: WOS*

*4. [1.2] CHU, Z.K. - HU, D.F. Analysis of uncertainty relationship of mechanical structure based on hole-shaft clearance fit. In JIXIE QIANGDU/JOURNAL OF MECHANICAL STRENGTH, 2023, vol. 45, no. 4, p. 850-855. ISSN 1001-9669. Dostupné na:* [*https://doi.org/10.16579/j.issn.1001.9669.2023.04.013*](https://doi.org/10.16579/j.issn.1001.9669.2023.04.013)*, Registrované v: SCOPUS*

**\*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

|  |  |
| --- | --- |
| AEC01 | AHMAD, Khurshid - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Choosing t-norms and t-conorms for fuzzy controllers. In Proc. FSKD'07. - Haikou, China : Hainan University, 2007, s. 641-646. |

Citácie:

*1. [1.2] MOHAMAD, D. - RAHIN, N. S.N. Similarity-Based Generalized Prioritized Information Fusion Algorithm with T-operator for Solving Decision Making Problems. In AIP Conference Proceedings, 2023-10-06, 2746, 1, art. nr. 060015. ISSN 0094243X. Dostupné na:* [*https://doi.org/10.1063/5.0152683*](https://doi.org/10.1063/5.0152683)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AEC02 | BOSÁK, Juraj. Graphs with unique walks, trails or paths of given lengths. In Theory and Applications of Graphs, Lecture Notes in Mathematics, Vol. 642. - Berlin : Springer, 1978, s. 75-85. ISBN 978-3-540-08666-6. ISSN 0075-8434. |

Citácie:

*1. [1.1] TUITE, James - ERSKINE, Grahame. On Networks with Order Close to the Moore Bound. In GRAPHS AND COMBINATORICS, 2022, vol. 38, no. 5, pp. ISSN 0911-0119. Dostupné na:* [*https://doi.org/10.1007/s00373-022-02535-6*](https://doi.org/10.1007/s00373-022-02535-6)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC03 | BOSÁK, Juraj. The graphs of semigroups. In Theory of Graphs and its Applications. - 1964, s. 119-125. |

Citácie:

*1. [1.1] ALHUBAIRAH, Fozaiyah Ayed - ALI, Nor Muhainiah Mohd - ERFANIAN, Ahmad. Cyclic Intersection Graph of Subgroups of Dihedral Groups and its Properties. In INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE, 2023, vol. 18, no. 4, pp. 661-674. ISSN 1814-0424., Registrované v: WOS*

*2. [1.1] BALODA, Barkha - KUMAR, Jitender. On the Inclusion Ideal Graph of Semigroups. In ALGEBRA COLLOQUIUM, 2023, vol. 30, no. 03, pp. 411-428. ISSN 1005-3867. Dostupné na:* [*https://doi.org/10.1142/S1005386723000342*](https://doi.org/10.1142/s1005386723000342)*, Registrované v: WOS*

*3. [1.1] HAMIDI, Mohammad - AMERI, Reza - MOHAMMADI, Hoda. Hyperideal-based intersection graphs. In INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, 2023, vol. 54, no. 1, pp. 120-132. ISSN 0019-5588. Dostupné na:* [*https://doi.org/10.1007/s13226-022-00238-5*](https://doi.org/10.1007/s13226-022-00238-5)*, Registrované v: WOS*

*4. [1.1] KHOJASTEH, Soheila. The complement of the intersection graph of ideals of a poset. In JOURNAL OF ALGEBRA AND ITS APPLICATIONS, 2023, vol. 22, no. 11, pp. ISSN 0219-4988. Dostupné na:* [*https://doi.org/10.1142/S0219498823502365*](https://doi.org/10.1142/s0219498823502365)*, Registrované v: WOS*

*5. [1.2] BEHESHTIPOUR, Arezoo - JAFARIAN AMIRI, Seyyed Majid. The Clique Number of the Intersection Graph of a Finite Group. In Bulletin of the Iranian Mathematical Society, 2023-10-01, 49, 5, pp. ISSN 10186301. Dostupné na:* [*https://doi.org/10.1007/s41980-023-00804-5*](https://doi.org/10.1007/s41980-023-00804-5)*, Registrované v: SCOPUS*

*6. [1.2] DALAL, Sandeep - KUMAR, Jitender - SINGH, Siddharth. On the Connectivity and Equality of Some Graphs on Finite Semigroups. In Bulletin of the Malaysian Mathematical Sciences Society, 2023-01-01, 46, 1, pp. ISSN 01266705. Dostupné na:* [*https://doi.org/10.1007/s40840-022-01411-z*](https://doi.org/10.1007/s40840-022-01411-z)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AEC04 | CMORIK, Roland - JIRÁSKOVÁ, Galina. Basic operations on binary suffix-free languages. In Lecture Notes in Computer Science, vol. 7119. - Heidelberg : Springer, 2012, s. 94-102. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. The cut operation in subclasses of convex languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 969, art. nr. 114050. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114050*](https://doi.org/10.1016/j.tcs.2023.114050)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC05 | CZYZOWICZ, J. - DOBREV, Stefan - KRANAKIS, E. - KRIZANC, D. The Power of Tokens: Rendezvous and Symmetry Detection for Two Mobile Agents in a Ring. J. Czyzowicz, S. Dobrev, E. Kranakis, D. Krizanc. In SOFSEM 2008: Theory and Practice of Computer Science, Vol. 4910. - Heidelberg : Springer, 2008, s. 234-246. ISBN 978-3-540-77565-2. |

Citácie:

*1. [1.1] BOUCHARDDAGGER, Sebastien - DIEUDONNE, Yoann - PELCDAGGER, Andrzej. WANT TO GATHER? NO NEED TO CHATTER! In SIAM JOURNAL ON COMPUTING, 2023, vol. 52, no. 2. ISSN 0097-5397. Dostupné na:* [*https://doi.org/10.1137/20M1362899*](https://doi.org/10.1137/20m1362899)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC06 | ČEVOROVÁ, Kristína - JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, I. On the Square of Regular Languages. In Implementation and Application of Automata - 19th International Conference: CIAA 2014, Giessen, Germany, July 30 - August 2, 2014, Proceedings. Lecture Notes in Computer Science, vol. 8587. Theoretical Computer Science and general Issues. - Cham : Springer International Publishing, 2014, p. 136-147. ISBN 978-3-319-08845-7. |

Citácie:

*1. [1.1] HOLZER, Markus - RAUCH, Christian. The Range of State Complexities of Languages Resulting from the Cascade Product The Unary Case. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE, 2023, vol. 34, no. 08, pp. 987-1022. ISSN 0129-0541. Dostupné na:* [*https://doi.org/10.1142/S0129054123430049*](https://doi.org/10.1142/s0129054123430049)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC07 | ČEVOROVÁ, Kristína - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter - PALMOVSKÝ, M. - ŠEBEJ, J. Operations on Automata with All States Final. In Proceedings 14th International Conference on Automata and Formal Languages (AFL 2014): Szeged, Hungary, May 27-29, 2014. EPTCS, vol. 151. - Szeged, Hungary : [http://dx.doi.org/10.4204/EPTCS.151,](http://dx.doi.org/10.4204/eptcs.151,) 2014, p. 201-215. ISSN 2075-2180. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 972, art. nr. 114075. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC08 | DOBREV, Stefan - KRÁLOVIČ, R. - PARDUBSKÁ, D. How much information about the future is needed? In SOFSEM 2008: Theory and Practice of Computer Science, Vol. 4910. - Heidelberg : Springer, 2008. ISBN 978-3-540-77565-2. |

Citácie:

*1. [1.1] BöKENHAUER, H.J. - KLASING, R. - MöKE, T. - ROSSMANITH, P. - STOCKER, M. - WEHNER, D. Online Knapsack with Removal and Recourse. In COMBINATORIAL ALGORITHMS, IWOCA 2023. ISSN 0302-9743, 2023, vol. 13889, p. 123-135. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34347-6\_11*](https://doi.org/10.1007/978-3-031-34347-6_11)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC09 | DOBREV, Stefan - KRANAKIS, E. - KRIZANC, D. - OPATRNY, J. - MORALES, O. - STACHO, Ladislav. Strong Connectivity in Sensor Networks with Given Number of Directional Antennae of Bounded Angle. S. Dobrev, E. Kranakis, D. Krizanc, J. Opatrny, O. Morales, L. Stacho. In Combinatiorial Optimization and Applications: Lecture Notes in Computer Science, Vol. 6509. - Springer, 2010, s. 72-86. ISBN 978-3-642-17460-5. Discrete Mathematics, Algorithms and Applications, 2012, vol. 4, no. 3. Dostupné na: <https://doi.org/10.1007/978-3-642-17461-2_6> |

Citácie:

*1. [1.1] BINIAZ, Ahmad - DALIRI, Majid - MORADPOUR, Amir Hossein. A 10-APPROXIMATION OF THE π2-MST. In JOURNAL OF COMPUTATIONAL GEOMETRY, 2023, vol. 14, no. 1, pp. 157-173. ISSN 1920-180X., Registrované v: WOS*

*2. [1.1] LAM, Tan D. - HUYNH, Dung T. Improved algorithms in directional wireless sensor networks. In JOURNAL OF COMBINATORIAL OPTIMIZATION, 2023, vol. 45, no. 4, art. no. 99. ISSN 1382-6905. Dostupné na:* [*https://doi.org/10.1007/s10878-023-01031-8*](https://doi.org/10.1007/s10878-023-01031-8)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC10 | HRICKO, M. - JIRÁSKOVÁ, Galina - SZABARI, A. Union and intersection of regular languages and descriptional complexity. In Proc. 7th Workshop Descriptional Complexity of Formal Systems. - Milano : University of Milano, 2005, s. 170-181. |

Citácie:

*1. [1.1] HOLZER, Markus - RAUCH, Christian. The Range of State Complexities of Languages Resulting from the Cascade Product The Unary Case. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE, 2023, vol. 34, no. 08, pp. 987-1022. ISSN 0129-0541. Dostupné na:* [*https://doi.org/10.1142/S0129054123430049*](https://doi.org/10.1142/s0129054123430049)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC11 | CHAVEZ, Edgar - DOBREV, Stefan - KRANAKIS, Evangelos - OPATRNY, Jaroslav - STACHO, Ladislav - TEJEDA, Hector - URRUTIA, Jorge. Half-Space Proximal: A new local test for extracting a bounded dilation spanner of a unit disk graph. E. Chavez, S. Dobrev, E. Kranakis, J. Opatrny, L. Stacho, H. Tejeda, J. Urrutia. In Principles of Distributed Systems, Book Series: LECTURE NOTES IN COMPUTER SCIENCE, Vol. 3974. - Germany : Springer-Verlag Berlin, 2006, s. 235-245. ISBN 978-3-540-36321-7. ISSN 0302-9743. |

Citácie:

*1. [1.1] AGUEERO-CHAPIN, Guillermin - ANTUNES, Agostinho - MORA, Jose R. - PEREZ, Noel - CONTRERAS-TORRES, Ernesto - VALDES-MARTINI, Jose R. - MARTINEZ-RIOS, Felix - ZAMBRANO, Cesar H. - MARRERO-PONCE, Yovani. Complex Networks Analyses of Antibiofilm Peptides: An Emerging Tool for Next-Generation Antimicrobials'; Discovery. In ANTIBIOTICS-BASEL, 2023,   
  
vol. 12, no. 4, art. no. 747. ISSN 2079-6382. Dostupné na:* [*https://doi.org/10.3390/antibiotics12040747*](https://doi.org/10.3390/antibiotics12040747)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC12 | JIRÁSKOVÁ, Galina. On the state complexity of complements, stars, and reversals of regular languages. In Lecture Notes in Computer Science, Vol. 5257. - Heidelberg : Springer, 2008, s. 431-442. ISBN 978-3-540-85779-2. ISSN 0302-9743. |

Citácie:

*1. [1.2] KRECZMAN, Savinien - PRIGIONIERO, Luca - ROWLAND, Eric - STIPULANTI, Manon. Magic Numbers in Periodic Sequences. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 206-219. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_16*](https://doi.org/10.1007/978-3-031-33180-0_16)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AEC13 | JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Complement on Prefix-Free, Suffix-Free, and Non-Returning NFA Languages. In Proc. Descriptional Complexity of Formal Systems - 16th International Workshop (DCFS 2014), Lecture Notes in Computer Science, vol. 8614. - Turku, Finland : Springer, 2014, s. 222-233. |

Citácie:

*1. [1.1] HOSPODAR, Michal - OLEJAR, Viktor. Nondeterministic operational complexity in subregular languages. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 972, art. nr. 114075. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114075*](https://doi.org/10.1016/j.tcs.2023.114075)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC14 | JIRÁSKOVÁ, Galina - SHALLIT, J. The state complexity of star-complement-star. In Developments in Language Theory: 16th International Conference, DLT 2012, Taipei, Taiwan, August 14-17, 2012, Proceedings. Lecture Notes in Computer Science, vol. 7410. - Heidelberg : Springer, 2012, p. 380-391. ISBN 978-3-642-31652-4. |

Citácie:

*1. [1.2] CARON, Pascal - LUQUE, Jean Gabriel - PATROU, Bruno. Operational State Complexity Revisited: The Contribution of Monsters and Modifiers. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13918 LNCS, pp. 1-20. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-34326-1\_1*](https://doi.org/10.1007/978-3-031-34326-1_1)*, Registrované v: SCOPUS*

|  |  |
| --- | --- |
| AEC15 | JIRÁSKOVÁ, Galina - MASOPUST, T. On state complexity of projected regular languages. In Proc. Descriptional Complexity of Formal Systems, LNCS, vol. 6808. - Vicinity of Vicinity Giessen, Germany, 2011, s. 198-211. |

Citácie:

*1. [1.1] ALBAYRAK, Seda - BELL, Jason P. Quantitative estimates for the size of an intersection of sparse automatic sets. In THEORETICAL COMPUTER SCIENCE, 2023, vol. 977, art. nr. 114144. ISSN 0304-3975. Dostupné na:* [*https://doi.org/10.1016/j.tcs.2023.114144*](https://doi.org/10.1016/j.tcs.2023.114144)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC16 | MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Fuzzy integrals. In Modeling Decisions for Artificial Intelligence, Vol. LNAI 3131. - Berlin : Springer, 2004, s. 7-14. |

Citácie:

*1. [1.1] TORRA, Vicenc. The transport problem for non-additive measures. In EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, 2023, vol. 311, no. 2, pp. 679-689. ISSN 0377-2217. Dostupné na:* [*https://doi.org/10.1016/j.ejor.2023.03.016*](https://doi.org/10.1016/j.ejor.2023.03.016)*, Registrované v: WOS*

|  |  |
| --- | --- |
| AEC17 | ROSA, Alexander. On certain valuations of the vertices of a graph. In Theory of Graphs, International Symposium, ICC Rome. - Paris : Dunod-Gordon and Breach, 1967, s. 349-355. |

Citácie:

*1. [1.1] BOHNERT, Alan - BRANSON, Luke - OTTO, Patrick. On decompositions of complete graphs into unicyclic disconnected bipartite graphs on nine edges. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS, 2023, vol. 11, no. 1, pp. 329-341. ISSN 2338-2287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.1.24*](https://doi.org/10.5614/ejgta.2023.11.1.24)*, Registrované v: WOS*

*2. [1.1] SIMARMATA, Nikson - SANDY, Ikhlas Pratama - SUGENG, Kiki Ariyanti. Graceful labeling construction for some special tree graph using adjacency matrix. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS, 2023, vol. 11, no. 2, pp. 343-356. ISSN 2338-2287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.2.1*](https://doi.org/10.5614/ejgta.2023.11.2.1)*, Registrované v: WOS*

*3. [1.1] UMA, L. - RAJASEKARAN, G. On alpha labeling of tensor product of paths and cycles. In HELIYON, 2023, vol. 9, no. 11, pp. Dostupné na:* [*https://doi.org/10.1016/j.heliyon.2023.e21430*](https://doi.org/10.1016/j.heliyon.2023.e21430)*, Registrované v: WOS*

*4. [1.2] ASHARI, Yeva Fadhilah - SALMAN, A. N.M. - SIMANJUNTAK, Rinovia - SEMANIČOVÁ-FEŇOVČÍKOVÁ, Andrea - BAČA, Martin. On (F,H)-sim-magic labelings of graphs. In Electronic Journal of Graph Theory and Applications, 2023-01-01, 11, 1, pp. 49-64. ISSN 23382287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.1.5*](https://doi.org/10.5614/ejgta.2023.11.1.5)*, Registrované v: SCOPUS*

*5. [1.2] PATODIA, Harish - SAIKIA, Helen K. A note on m-Zumkeller cordial labeling of graphs. In Proyecciones, 2023-02-01, 42, 1, pp. 65-84. ISSN 07160917. Dostupné na:* [*https://doi.org/10.22199/issn.0717-6279-5190*](https://doi.org/10.22199/issn.0717-6279-5190)*, Registrované v: SCOPUS*

**\*AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

|  |  |
| --- | --- |
| AEE01 | ALEKAL, Y. - BRUNOVSKÝ, Pavol - CHYUNG, D.H. - LEE, E.B. The quadratic problem for systems with time delays. Y. Alekal, P. Brunovský, D.H. Chyung, E.B. Lee. In IEEE Transactions on Automatic Control, 1971, vol. 16, no. 6, p. 673-687. ISSN 0018-9286. |

Citácie:

*1. [1.1] YAN, Tingjin - CHIU, Mei Choi - WONG, Hoi Ying. Pairs trading under delayed cointegration. In QUANTITATIVE FINANCE, 2022, vol. 22, no. 9, pp. 1627-1648. ISSN 1469-7688. Dostupné na:* [*https://doi.org/10.1080/14697688.2022.2064760*](https://doi.org/10.1080/14697688.2022.2064760)*, Registrované v: WOS*

*2. [1.1] YAN, Tingjin - CHIU, Mei Choi - WONG, Hoi Ying. Portfolio liquidation with delayed information. In ECONOMIC MODELLING, 2023, vol. 126, no., pp. ISSN 0264-9993. Dostupné na:* [*https://doi.org/10.1016/j.econmod.2023.106398*](https://doi.org/10.1016/j.econmod.2023.106398)*, Registrované v: WOS*

*3. [1.1] YAN, Tingjin - WONG, Hoi Ying. Equilibrium pairs trading under delayed cointegration. In AUTOMATICA, 2022, vol. 144, no., pp. ISSN 0005-1098. Dostupné na:* [*https://doi.org/10.1016/j.automatica.2022.110498*](https://doi.org/10.1016/j.automatica.2022.110498)*, Registrované v: WOS*

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| AEE02 | CLEMONS, P. A. - WILSON, J. A. - DANČÍK, Vladimír - MULLER, S. - CARRINSKI, H. A. - WAGNER, B. K. - KOEHLER, A. N. - SCHREIBER, S. L. Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. P. A. Clemons, J. A. Wilson, V. Dančík, S. Muller, H. A. Carrinski, B. K. Wagner, A. N. Koehler, S. L. Schreiber. In Proceedings of the National Academy of Sciences of the United States of America. - Washington : National Academy of Sciences, 2011, vol. 108, no. 17, p. 6817-6822. (2010: 9.771 - IF, Q1 - JCR, 6.898 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0027-8424. |

Citácie:

*1. [1.1] BHAT, A.A. - TANDON, N. - SINGH, I. - TANDON, R. Structure-activity relationship (SAR) and antibacterial activity of pyrrolidine based hybrids: A review. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, JUL 5 2023, vol. 1283. Dostupné na:* [*https://doi.org/10.1016/j.molstruc.2023.135175*](https://doi.org/10.1016/j.molstruc.2023.135175)*, Registrované v: WOS*

*2. [1.1] LATTANZI, A. From Three- to Six-Membered Heterocycles Bearing a Quaternary Stereocenter: an Asymmetric Organocatalytic Approach. In CHEMICAL RECORD. ISSN 1527-8999, MAY 2023, vol. 23, no. 5. Dostupné na:* [*https://doi.org/10.1002/tcr.202300066*](https://doi.org/10.1002/tcr.202300066)*, Registrované v: WOS*

|  |  |
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| AEE03 | HOLÁ, Ľubica - PELANT, J. Recent progress in hyperspace topologies. In Recent Progress in General Topology II. - North - Holland, 2002, s. 253-285. |

Citácie:

*1. [1.1] LIU, Chuan - LIN, Fucai. Hyperspaces with a countable character of closed subsets. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 328, art. nr. 108461. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108461*](https://doi.org/10.1016/j.topol.2023.108461)*, Registrované v: WOS*

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| AEE04 | JIRÁSKOVÁ, Galina. Deterministic blow-ups of minimal NFA´s. In RAIRO-THEORETICAL INFORMATICS AND APPLICATIONS, 2006, vol. 40, no. 3, s. 485-499. |

Citácie:

*1. [1.2] KRECZMAN, Savinien - PRIGIONIERO, Luca - ROWLAND, Eric - STIPULANTI, Manon. Magic Numbers in Periodic Sequences. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 206-219. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_16*](https://doi.org/10.1007/978-3-031-33180-0_16)*, Registrované v: SCOPUS*

|  |  |
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| AEE05 | KOREC, Ivan. Real-time generation of primes by a one-dimensional cellular automaton with 9 states. In Actes de MCU';98 (Proc. MCU';98). - 1998, s. 100-116. |

Citácie:

*1. [1.1] DOLCE, Francesco - TAHAY, Pierre-Adrien. Column Representation of Sturmian Words in Cellular Automata. In DEVELOPMENTS IN LANGUAGE THEORY (DLT 2022), 2022, vol. 13257, no., pp. 127-138. ISSN 0302-9743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-05578-2\_10*](https://doi.org/10.1007/978-3-031-05578-2_10)*, Registrované v: WOS*

*2. [1.1] DURAN, Alexis Garcia - SOTO, Jose Manuel Gomez. Real-time Generation of Positive Integer Geometric Sequences by One-Dimensional Cellular Automata. In JOURNAL OF CELLULAR AUTOMATA, 2023, vol. 17, no. 3-4, pp. 281-338. ISSN 1557-5969., Registrované v: WOS*

*3. [1.2] TAHAY, Pierre Adrien. Characteristic Sequences of the Sets of Sums of Squares as Columns of Cellular Automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 288-300. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_22*](https://doi.org/10.1007/978-3-031-33180-0_22)*, Registrované v: SCOPUS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | MAČUTEK, Ján - ČECH, Radek - COURTIN, Marine. The Menzerath-Altmann law in syntactic structure revisited: Combining linearity of language with dependency syntax. In Second Workshop on Quantitative Syntax.Proceedings. Rec. Chiara   Alzetta, Aditya Bhargava. - Stroudsburg, USA : The Association for Computational Linguistics, 2021, p. 65-73. ISBN 978-1-955917-15-5. |

Citácie:

*1. [1.1] MILICKA, Jiri. Menzerath';s law: Is it just regression toward the mean? In GLOTTOMETRICS, 2023, vol. 55, no., pp. 1-16. ISSN 1617-8351. Dostupné na:* [*https://doi.org/10.53482/2023\_55\_409*](https://doi.org/10.53482/2023_55_409)*, Registrované v: WOS*

*2. [1.2] CHEN, Heng - WANG, Yaqin. How does language evolve as a multi-level system? A quantitative exploration of written Chinese. In Language Sciences, 2023-07-01, 98, pp. ISSN 03880001. Dostupné na:* [*https://doi.org/10.1016/j.langsci.2023.101554*](https://doi.org/10.1016/j.langsci.2023.101554)*, Registrované v: SCOPUS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

|  |  |
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| AFD01 | KOREC, Ivan - WIEDERMANN, Jiří. Deterministic verification of integer matrix multiplication in quadratic time. In SOFSEM 2014: theory and practice of computer science : proceedings, LNCS 8327. V. Geffert, B. Preneel, B. Rovan, J. Štuller, A.M. Tjoa (eds.). - Cham : Springer, 2014, s. 375-382. ISBN 978-3-319-04297-8. ISSN 0302-9743. (SOFSEM 2014) |

Citácie:

*1. [1.1] BAJARD, Jean-Claude - FUKUSHIMA, Kazuhide - PLANTARD, Thomas - SIPASSEUTH, Arnaud. Fast verification and public key storage optimization for unstructured lattice-based signatures. In JOURNAL OF CRYPTOGRAPHIC ENGINEERING, 2023, vol. 13, no. 3, pp. 373-388. ISSN 2190-8508. Dostupné na:* [*https://doi.org/10.1007/s13389-023-00309-1*](https://doi.org/10.1007/s13389-023-00309-1)*, Registrované v: WOS*

*2. [1.2] CHISTIKOV, Dmitry - MAJUMDAR, Rupak - SCHEPPER, Philipp. Subcubic certificates for CFL reachability. In Proceedings of the ACM on Programming Languages, 2022-01-01, 6, pOPL, pp. Dostupné na:* [*https://doi.org/10.1145/3498702*](https://doi.org/10.1145/3498702)*, Registrované v: SCOPUS*

**GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií**

|  |  |
| --- | --- |
| GII01 | FEČKAN, Michal - DANCA, Marius-F.\*\*. Stability, Periodicity, and Related Problems in Fractional-Order Systems : Editorial. In Mathematics, 2022, vol. 10, art. no. 2040. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10122040> |

Citácie:

*1. [1.1] YAN, F. - HOU, X.R. - TIAN, T.T. Fractional-Order Multivariable Adaptive Control Based on a Nonlinear Scalar Update Law. In MATHEMATICS. SEP 2022, vol. 10, no. 18. Dostupné na:* [*https://doi.org/10.3390/math10183385*](https://doi.org/10.3390/math10183385)*, Registrované v: WOS*

***Príloha A-4***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra matematickej analýzy a numerickej matematiky

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 2

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 1

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Teorie grafů

Počet hodín za semester: 39

Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Topológia

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 60

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Dátové štruktúry a algoritmy

Počet hodín za semester: 48

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Aplikovaná štatistika + Finančná Matematika

Počet hodín za semester: 72

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Aplikovaná štatistika + Matematika 2

Počet hodín za semester: 72

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Viktor Olejár

Názov semestr. predmetu: Klasické a kvantové výpočty

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

Mgr. Viktor Olejár

Názov semestr. predmetu: Programovanie, algoritmy, zložitosť

Počet hodín za semester: 52

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Základy matematiky (3)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Semináre:

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Proseminár z TEX-u

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha A-5***

**Medzinárodná mobilita organizácie**

**(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Karol Nemoga | 4 |
| Česko |  |  |  |  | Ján Mačutek | 6 |
|  |  |  |  |  | Karol Nemoga | 2 |
| Francúzsko |  |  |  |  | Jana Valigurská | 15 |
| Kanada |  |  |  |  | Stefan Dobrev | 19 |
| Katar |  |  |  |  | Ján Mačutek | 6 |
| Maďarsko |  |  |  |  | Anna Jenčová | 5 |
| Nórsko |  |  |  |  | Ján Mačutek | 4 |
|  |  |  |  |  | Karol Nemoga | 5 |
| Poľsko |  |  |  |  | Ján Mačutek | 6 |
| Portugalsko |  |  |  |  | Viktor Olejár | 250 |
| Rakúsko |  |  |  |  | Gabriel Okša | 6 |
| USA |  |  |  |  | Galina Jirásková | 9 |
| **Počet vyslaní spolu** |  |  |  |  | **13** | **337** |

**(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Maďarsko |  |  |  |  | Gusztáv Fekete | 90 |
| Rakúsko |  |  |  |  | Camillo Breiling | 2 |
|  |  |  |  |  | Emmerich Kelih | 1 |
| Uzbekistan |  |  |  |  | Aygul Babadjanova | 28 |
| **Počet prijatí spolu** |  |  |  |  | **4** | **121** |

**(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Belgicko | JADT 2024 | Ján Mačutek | 5 |
| Bulharsko | ICIFS 2024 | Katarína Čunderlíková | 8 |
|  | NDATES 2024 | Martina Langerová | 7 |
| Česko | AAA105 | Emília Halušková | 4 |
|  | CSGT24 | Roman Nedela | 5 |
|  | HOMONOLO 2024 | Roman Nedela | 5 |
|  | IWCCL2024 | Ján Mačutek | 3 |
|  | PPAM 2024 | Martin Bečka | 4 |
|  |  | Gabriel Okša | 4 |
|  | SSAOS 2024 | Emília Halušková | 6 |
|  |  | Jozef Pócs | 6 |
| Egypt | ICMA24 | Ahmed Ibrahim Mohamed Mahmoud Abo Saied | 12 |
| Francúzsko | ICFDA 2024 | Natália Dilna | 7 |
| Japonsko | CIAA 2024 | Galina Jirásková | 10 |
|  |  | Viktor Olejár | 10 |
| Maďarsko | Focused 2024 | Anna Jenčová | 7 |
| Nemecko | IMEKO 2024 | Gejza Wimmer | 5 |
| Nigéria | ASC1st-2024 | Friday Ikechukwu Agu | 5 |
| Poľsko | InsRA-II | Ľubica Holá | 8 |
|  |  | Branislav Novotný | 8 |
| Srbsko | ATA 2024 | Ľubica Holá | 7 |
|  |  | Branislav Novotný | 7 |
| Španielsko | BIRS2024 | Anna Jenčová | 6 |
|  | NATO Workshop SCQT 2024 | Karol Nemoga | 3 |
| Švédsko | EQUADIFF 2024 | Natália Dilna | 5 |
| **Spolu** | **20** | **25** | **157** |

*Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd*

Skratky použité v tabuľke C:

AAA105 - 105. Arbeitstagung Allgemeine Algebra

ASC1st-2024 - The 1st Annual Statistical Conference and the 1 st Pre-Conference Workshop

ATA 2024 - Analysis, Topology and Applications 2024

BIRS2024 - BIRS-IMAG Workshops 2024 - Towards Infinite Dimension and Beyond in Quantum Information

CIAA 2024 - The 28th International Conference on Implementation and Application of Automata

CSGT24 - The 59th Czech-Slovak Conference on Graph Theory 2024

EQUADIFF 2024 - The Equadiff conference 2024

Focused 2024 - Focused Workshop on Quantum Rényi Divergences

HOMONOLO 2024 - Workshop HOMONOLO 2024

ICFDA 2024 - 12th IFAC Conference on Fractional Differentiation and its Applications

ICIFS 2024 - The 27th International Conference on Intuitionistic Fuzzy Sets

ICMA24 - The 6th International Conference for Mathematics & Its Applications (ICMA24): Artificial Intelligent and Computational Mathematics

IMEKO 2024 - XXIV IMEKO World Congress

InsRA-II - Inspirations in Real Analysis II

IWCCL2024 - International Workshop on Corpus and Computational Linguistics

JADT 2024 - 17es Journées internationales d'Analyse statistique des Données Textuelles

NATO Workshop SCQT 2024 - Workshop NATO “Secure Communication via Classical and Quantum Technologies”

NDATES 2024 - The 11th International Conference New Trends in the Applications of Differential Equations in Sciences

PPAM 2024 - 15th International Conference on Parallel Processing and Applied Mathematics

SSAOS 2024 - Summer School on General Algebra and Ordered Sets 2024 ***Príloha A-6***

**Vedecko-popularizačná činnosť pracovníkov organizácie**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Exponenciála a trvanie imunity po prekonaní COVIDu-19 (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ J. D. Matejovie, Liptovský Hrádok | 11.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ Komenského, Svit | 15.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ s MŠ Liptovský Ján | 15.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ s MŠ Okoličné | 12.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | Rozprávka s tangramom - geometria pre deti netradične | MÚ SAV, Košice, DOD | 14.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | Veľké čísla okolo nás | Liptovský Ján, denný detský tábor ECAV | 9.7.2024 |
| RNDr. Emília Halušková, CSc. |  | iné | Vianoce s tangramom | SZŠ pre žiakov s autizmom, Juhoslovanská 2, Košice | 13.12.2024 |
| RNDr. Galina Jirásková, CSc. |  | PB | Formálne jazyky a magické čísla | Matematický piatok, Slezská univerzita, Opava | 13.12.2024 |
| doc. Mgr. Ján Mačutek, PhD. |  | TV | účasť v diskusii RTVS "Prečo je matematika nenahraditeľná" | https://www.rtvs.sk/televizia/archiv/15289/472004 | 5.6.2024 |
| Ing. Igor Mračka, PhD. |  | PB | Po stopách obchodného cestujúceho (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | SAVinci Sú naše peniaze v bezpečí. Minulosť a súčasnosť kryptológie. | KC Bratislava | 3.6.2024 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Vedecká kaviareň Košice - Matematika – Strašiak? – Zábavka? – Pomôcka? | Košice | 30.10.2024 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární? (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| Mgr. Andrea Zemánková, DrSc. |  | PB | Fígle s fúznymi funkciami (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Niekoľko poznámok k výrokovej logike | Matematický ústav, detašované pracovisko Košice | 1 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Niekoľko poznámok k výrokovej logike | Matematický ústav, Slezská univerzita, Opava, Česká republika | 1 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Škriatkovia, čarodejník a klobúky | LŠ Pytagoras/ Hronec (okres Brezno) | 1 |
| Mgr. Viktor Olejár |  | PB | Classes Without Frontiers - cyklus prednášok na stredných školách v Porte | Porto, Portugalsko | 2 |

*1 PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film* ***Príloha A-7***

**Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024**

**Domáce ocenenia**

**Ocenenia SAV**

**Hospodár Michal**

Súťaž mladých vedeckých pracovníkov SAV do 35 rokov (3. miesto v I. oddelení vied)

*Oceňovateľ: predseda SAV*

*Opis: Dňa 13.6.2024 som prezentoval výber svojich prác na tému "Zložitosť operácií v podtriedach regulárnych jazykov" počas seminára na Watsonovej 47 v Košiciach. Tento výber bol hodnotený komisiou SAV na seminári dňa 30.4.2024 v Bratislave a umiestnil sa na 3. mieste zo 7 prezentovaných prác.*

**Wimmer Gejza**

Medaila SAV za podporu vedy

*Oceňovateľ: SAV*

**Iné domáce ocenenia**

**Dvurečenskij Anatolij**

Cena mesta Kysucké Nové Mesto za rok 2024

*Oceňovateľ: Mesto Kysucké Nové Mesto*

*Opis: Cena za osobitný a celoživotný významný prínos na poli vedeckej a publikačnej činnosti*

**Medzinárodné ocenenia**

*Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.*