**Matematický ústav SAV, v. v. i.**   
   
   
   
   
   
   
   
   
   
   
**Výročná správa o činnosti a hospodárení**   
**za rok 2023**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
február 2024

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

**Výročná správa o činnosti organizácie**

**za rok 2023**

**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 vedeckej rady:** [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2380)   
**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 | 6 | 4 | 69 | 46.89 | 32.87 | 1.31 |
| **Vedeckí pracovníci** | 51 | 37 | 14 | 2 | 2 | 48 | 33.3 | 32.84 | 0 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 4 | 2 | 2 | 2 | 2 | 4 | 0.64 | 0.03 | 0 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 6 | 2 | 4 | 2 | 0 | 4 | 3.71 | 0 | 0.71 |
| **Odborní pracovníci ÚS** | 9 | 0 | 9 | 0 | 0 | 9 | 6.55 | 0 | 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 31.12.2023 (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 31.12.2023 (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 31.12.2023)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 5 | 32 | 6 | 13 | 5 | 14 | 18 |
| **Ženy** | 4 | 11 | 0 | 3 | 4 | 4 | 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** | 0 | 0.0 | 1 | 1.0 | 5 | 4.2 | 2 | 2.0 | 5 | 1.9 | 4 | 2.4 | 3 | 2.1 | 7 | 5.0 | 8 | 5.4 |
| **Ženy** | 2 | 1.0 | 0 | 0.0 | 0 | 0.0 | 6 | 4.7 | 1 | 0.2 | 2 | 1.0 | 2 | 2.0 | 1 | 1.0 | 1 | 0.5 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov   
B - Prepočet so zohľadnením úväzkov zamestnancov*   
   
Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2023

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
| **Muži** | 53.1 | 55.3 | 56.1 |
| **Ženy** | 51.5 | 49.6 | 49.0 |
| **Spolu** | 52.4 | 53.7 | 53.9 |

**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 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. Žiadosti sa v súčasnej dobe vyhodnocujú na Ministerstve.

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 2020 Research and Innovation Programme základe projektu Marie Sklodowska-Curie. Dr. Zahiri pokračuje vo svojom projekte v rámci štipendia SASPRO. V r. 2023 nastúpil na ústav Dr. A. Lindenhovius z Holandska. Podarilo sa nám získať doktoranda z Egypta, ktorý si vybavuje povolenie na našej ambasáde.

V dňoch 23. a 24. júna sa konali v SND a na námestí pred SND oslavy 70. výročia založenia Slovenskej akadémie vied.

V piatok 23. júna 2023 Predseda SAV Pavol Šajgalík ocenil aj deväť osobností vedy. Odovzdal im Pamätnú medailu SAV k 70. výročiu založenia Slovenskej akadémie vied, medzi ocenenými bol aj K. Nemoga.

Počas oboch dní mal Matematický ústav vlastný stánok, kde E. Halušková a V. Olejár prezentovali *Model qubitu a jeho aplikácia* na popularizačných aktivitách. Dňa 23. júna poobede mal K. Nemoga mal na tomto fóre prednášku o kryptológii.

V rámci Týždňa vedy, november 2023, 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 3-5 ročníkov na ZŠ Hybe a ZŠ J.D. Matejovie.

V r. 2023 sme pokračovali, hoci v mierne obmedzenej miere kvôli epidemickej situácii, v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

Časopisu Mathematica Slovaca sa zvýšil impaktový faktor z IF(2021)=0,996 na IF(2022)=1,6, čím sa dostal do 1. kvartilu v sekcii matematika. Päťročný impakt faktor je 1,1. V databáze Scopus má časopis SJR(2022) = 0,418, ktorý je mierne znížený oproti SJR(2021)=0,432, (Scimago Journal Ranking), Cite Score = 1.9 a je v 2. kvartile. Počet zaslaných článkov v r. 2023 bol okolo 750.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR(2022)=0,217 (Scimago Journal Ranking), Cite Score = 0.8 a je v 4. kvartile.

Na obdobie od 5.5. do 31. 8. 2023 sme prijali na postdoktorandský pobyt Mgr. Jozefa Rajníka, PhD., absolventa FMFI UK ku prof. R. Nedelovi, pobočka Banská Bystrica.

V spolupráci s Trnavskou univerzitou a spoločnosťou Merchant, s.r.o. bol získaný nový grant InoCH -Výskum a vývoj v oblasti inovatívnych technológií a manažmente pacientov s CH (ITMS-2014+NFP313011BWH2), ktorý bol počas roku 2023 riešený.

K. Nemoga sa zúčastnil medzinárodnej diskusie o Open Access publikáciách v Nórskom Trømso v dňoch 8. až 10. novembra 2023, ktorá prebehla počas Munin conference 2023. Táto konferencia odráža súčasné trendy v Open Access a formuluje smery ďalšieho vývoja. K. Nemoga vystúpil s príspevkom: *International Open Access Monographs portal*.

Bohužiaľ, od začiatku marca 2020 celá spoločnosť bola zasiahnutá epidémiou Covid 19, teda aj Matematický ústav SAV, v. v. i., a museli sa rešpektovať protiepidemiologické opatrenia aj štvrtý rok, ale už to nebolo také drastické ako predtým. Nekonali sa niektoré konferencie, semináre, obhajoby prezenčnou formou, ale sa prešlo do on-line priestoru, mnohí pracovníci podľa potreby využíval tzv. home office. Situácia sa v r. 2023 pomaly vracala do normálu.

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

**2.1. Domáce projekty**   
   
Tabuľka 2a Domáce projekty riešené v roku 2023

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** | 12 | 3 | 69546 | 69546 | - | - | 4004 | - |
| **2. Projekty APVV** | 2 | 6 | - | - | 55604 | 36471 | - | 38693 |
| **3. Projekty EŠIF/OP ŠF,   Plán obnovy EÚ** | 0 | 1 | - | - | - | - | - | 158970 |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 0 | 0 | - | - | - | - | - | - |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 1 | 0 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2023

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2023** | - |  |  |
| **2. Projekty výziev EŠIF podané**  **r. 2023** | Bratislava |  |  |
| Regióny |  |  |
| **3. Projekty výziev Plánu obnovy** | Bratislava | 11 |  |
| Regióny |  |  |

**Celkový prehľad podaných projektov z Plánu obnovy:**

Projekty Plánu obnovy boli podávané v troch výzvach:

1. Výzva 09I03-03-V02 - Štipendiá pre excelentných PhD. študentov a študentky (R1)

* 1 žiadosť 09I03-03-V02-00040, Celkove 48 834,80 EUR

1. Výzva 09I03-03-V04, Štipendiá pre excelentných výskumníkov a výskumníčky R2-R4, Podali sme 9 žiadostí 09I03-03-V04-00(xxx), sumárny rozpočet 1 426 927,- EUR:

* 413, 510, 557, 706 (rozpočet 148 296,- EUR každá),
* 533 (rozpočet 137 203,- EUR),
* 541, 748 (rozpočet 171 504,- EUR každá)
* 549 (rozpočet 196 320,- EUR),
* 712 (rozpočet 157 212,- EUR),

1. Výzva 09I05-03-V02, Podpora výskumných projektov zameraných na digitalizáciu ekonomiky v TRL úrovniach 1-3.

* Projekt 09I05-03-V02-00084, Digital solutions in support of mental health in patients with CHF, Digitálne riešenia na podporu duševného zdravia u pacientov s CHF, DigiMent, TRL1- TRL3, spolu s Trnava University in Trnava TRUNI a MOVING MEDICAL MEDIA s.r.o., celkove 1 097 021,52 €, prostriedky mechanizmu 997 655,20 €, pre MÚ SAV, v. v. i. 310 000,- EUR.**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2023**

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** | 1 | 0 | - | - | 931 | 931 | - | - |
| **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 2023**

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

|  |  |  |
| --- | --- | --- |
|  | **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**

**2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023**

*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. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023**

**2.3.1. Výsledky na báze základného výskumu**

**Odmocniny na EMV-algebrách a pseudo MV-algebrách**

Square root, druhá odmocnina, je unárna operácia. Zaviedli sme square root na EMV-algebre. Známe vlastnosti na MV-algebrách boli zovšeobecnené a našli sme nové vlastnosti. Square root charakterizuje EMV-algebry. Našli sme niektoré vlastnosti, ktoré určovali vzťah medzi EMV-algebrou a reprezentujúcou EMV-algebrou s top elementom. Ukázali sme, že každá striktná EMV-algebra má top element a prezentovali sme vzťahy medzi deliteľnými EMV-algebrami a EMV-algebrami so špeciálnym square root. Ukázali sme square root na EMV-triboch a tiež kompletnú charakterizáciu všetkých druhých odmocnín na MV-algebrách a EMV-algebrách pomocou grupového sčítania v odpovedajúcej unitálnej l-grupe. Výsledky boli rozšírené aj na pseudo MV-algebry. V takom prípade sa uvažovali dva druhy square root operácií, ktoré sa pre MV-algebry zhodujú. Dôležité výsledky boli dosiahnuté pre symetrické reprezentovateľné pseudo MV-algebry.

**Autori: A. Dvurečenskij, O. Zahiri** (MÚ SAV, v. v. i.)

**Projekty:** APVV-20-0069 , VEGA No. 2/0142/20 SAV, European Union's Horizon 2020 Research and Innovation Programme on the basis of the Grant Agreement under the Marie Sklodowska-Curie funding scheme No. 945478 - SASPRO 2, project 1048/01/01

**Referencie:**

 **A. Dvurečenskij, O. Zahiri,** On EMV-algebras with square roots, J. Math. Anal. Appl. **524** (2023), Art. Num 127113. <https://doi.org/10.1016/j.jmaa.2023.127113>

 **A. Dvurečenskij, O. Zahiri,** Some results on pseudo MV-algebras with square roots, Fuzzy Sets and Systems **465** (2023), Art. Num 108527. <https://doi.org/10.1016/j.fss.2023.108527>

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**Square roots on EMV-algebras and pseudo MV-algebras.**

A square root is a unary operation with some special properties. We introduced and studied square roots on EMV-algebras. First, the known properties of square roots defined on MV-algebras were generalized for EMV-algebras, and we found some new ones for MV-algebras. We used square roots to characterize EMV-algebras. We find a relation between the square root of an EMV-algebra and the square root of its representing EMV-algebra with top element. We showed that each strict EMV-algebra has a top element, and we investigated the relation between divisible EMV-algebras and EMV-algebras with a special square root. Finally, we presented square roots on tribes, EMV-tribes, and we presented a complete characterization of any square root on an MV-algebra and an EMV-algebra by group addition in the corresponding unital -group. The results were extended for pseudo MV-algebras. In such a case, we have introduced two kinds of square roots which for MV-algebras coincide. Important results concern symmetric representable pseudo MV-algebras.

**Authors: A. Dvurečenskij, O. Zahiri** (MÚ SAV, v. v. i.)

**Projects:** APVV-20-0069 , VEGA No. 2/0142/20 SAV, European Union's Horizon 2020 Research and Innovation Programme on the basis of the Grant Agreement under the Marie Sklodowska-Curie funding scheme No. 945478 - SASPRO 2, project 1048/01/01

**References:**

 **A. Dvurečenskij, O. Zahiri,** On EMV-algebras with square roots, J. Math. Anal. Appl. **524** (2023), Art. Num 127113. <https://doi.org/10.1016/j.jmaa.2023.127113>

 **A. Dvurečenskij, O. Zahiri,** Some results on pseudo MV-algebras with square roots, Fuzzy Sets and Systems **465** (2023), Art. Num 108527. <https://doi.org/10.1016/j.fss.2023.108527>

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**Fréchetovské podpriestory minimálnych usco and minimálnych cusco zobrazení**

Minimálne usco/cusco zobrazenia sú veľmi dôležité vo funkcionálnej analýze, v optimalizácii, v selekčných vetách, pri štúdiu diferencovateľnosti Lipschitzovských funkcií a podobne. Študujeme topológie rovnomernej konvergencie na bornológiách na priestore minimálnych usco a minimálnych cusco zobrazení. Našli sme postačujúce podmienky pre metrizovateľnosť a úplnú metrizovateľnosť minimálnych usco a minimálnych cusco zobrazení s topológiou rovnomernej konvergencie na bornológiách. Skúmame aj Fréchetovské lokálne konvexné podpriestory týchto priestorov.

**Autori: Ľ. Holá** (MÚ SAV, v. v. i.), **B. Novotný** (MÚ SAV, v. v. i.)

**Projekty**: APVV-20-0045 and VEGA 2/0048/21.

**Referencia**: **Ľ. Holá**, **B. Novotný**, Fréchet subspaces of minimal usco and minimal cusco maps, Bull. Belg. Math. Soc. Simon Stevin, **29** (2022), 683-701. DOI: [10.36045/j.bbms.221005](https://doi.org/10.36045/j.bbms.221005)

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**Fréchet subspaces of minimal usco and minimal cusco maps**

Minimal usco/cusco maps are very important in functional analysis, in optimization, in selection theorems, in the study of differentiability of Lipschitz functions, etc. We study topologies of uniform convergence on bornologies in the space of minimal use and minimal cusco maps. We find sufficient conditions for metrizability and complete metrizability of minimal usco and minimal cusco maps equipped with the topology of uniform convergence on bornologies. We also investigate Fréchet locally convex subspaces of these bornologices we inversigate Fréchet local convex sunspcase of these spaces.

**Authors: Ľ. Holá** (MÚ SAV, v. v. i.), **B. Novotný**  ( MÚ SAV, v. v. i.)

**Projects**: APVV-20-0045 and VEGA 2/0048/21.

**Reference**: **Ľ. Holá**, **B. Novotný**, Fréchet subspaces of minimal usco and minimal cusco maps, Bull. Belg. Math. Soc. Simon Stevin, **29** (2022), 683-701. DOI: [10.36045/j.bbms.221005](https://doi.org/10.36045/j.bbms.221005)

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**Operácia strojového zreťazenia v podtriedach konvexných jazykov**

Strojové zreťazenie dvoch jazykov je podmnožina ich zreťazenia daná zachytením maximálneho ľavého slova. Študujeme stavovú zložitosť operácie strojového zreťazenia za predpokladu, že oba operandy patria do nejakých, prípadne rôznych, podtried konvexných jazykov. Menovite skúmame triedy pravých, ľavých, obojstranných a všetkostranných ideálov, jazykov neobsahujúcich predpony, prípony, faktory a podslová, a jazykov uzavretých a vlastných konvexných na tieto štyri relácie. Stavová zložitosť tejto binárnej operácie na dvojici tried je definovaná ako funkcia, ktorá priradí maximálnu stavovú zložitosť výsledného jazyka strojového zreťazenia dvojici čísel *m* a *n,* ktoré reprezentujú veľkosti deterministických konečných automatov pre operandy patriace do týchto tried. Pre všetky uvažované dvojice tried dostávame presnú stavovú zložitosť strojového zreťazenia. Ukazujeme, že táto zložitosť je *m* alebo *1*, ak prvý jazyk je pravý ideál, a *m+n−1* alebo *m+n−2* ak prvý jazyk je bezpredponový, predponovo uzavretý alebo vlastný predponovo konvexný. V ostatných prípadoch je stavová zložitosť strojového zreťazenia medzi *mn−2n−m+4* a *mn−n+m*, pričom druhá z týchto hodnôt je známa stavová zložitosť strojového zreťazenia na regulárnych jazykoch. Všetky naše dosvedčujúce jazyky sú popísané nad konštantnou abecedou veľkosti najviac tri, okrem štyroch prípadov, kedy je veľkosť abecedy lineárne rastúca s veľkosťou prvého automatu.

**Autori**: **M. Hospodár** (MÚ SAV, v. v. i.), **V. Olejár** (MÚ SAV, v. v. i. a UPJŠ)

**Projekty:** VEGA 2/0096/23, VEGA 1/0177/21, OPII projekt 313011BWH2: “InoCHF - Research and development in the field of innovative technologies in the management of patients with CHF”

**Referencia**: **M. Hospodár**, **V. Olejár**: The cut operation in subclasses of convex languages. Theoretical Computer Science **969** (2023), art. nr. 114050. <https://doi.org/10.1016/j.tcs.2023.114050>

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**The cut operation in subclasses of convex languages**

The cut of two languages is a subset of their concatenation given by the leftmost maximal prefix match. We study the state complexity of the cut operation assuming that both operands belong to some, possibly different, subclasses of convex languages, namely, right, left, two-sided, and all-sided ideal, prefix-, suffix-, factor-, and subword-closed, -free, and proper convex languages. This state complexity is defined as the function that assigns the maximal state complexity of the language resulting from the cut operation to the pair of numbers *m* and *n* representing the sizes of deterministic finite automata recognizing the operands of this operation, which belong to the given classes. For all considered pairs of classes, we get the exact state complexity of the cut. We show that it is *m* or *1* whenever the first language is the right ideal, and it is *m+n−1* or *m+n−2* if the first language is prefix-closed, prefix-free, or proper prefix-convex. In the other cases, the state complexity of cut is between *mn−2n−m+4* and *mn−n+m*, the latter being the known state complexity of cut on regular languages. All our witnesses are described over a fixed alphabet of size at most three, except for four cases when the witness languages are described over an alphabet of size *m* or *m−1*.

**Authors**: **M. Hospodár** (MÚ SAV, v. v. i.), **V. Olejár** (MÚ SAV, v. v. i. a UPJŠ)

**Projects:** VEGA 2/0096/23, VEGA 1/0177/21, OPII projekt 313011BWH2: “InoCHF - Research and development in the field of innovative technologies in the management of patients with CHF”

**Reference:** **M. Hospodár**, **V. Olejár**: The cut operation in subclasses of convex languages. Theoretical Computer Science **969** (2023), art. nr. 114050. <https://doi.org/10.1016/j.tcs.2023.114050>

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**O počte agregačných funkcií na konečných reťazcoch ako zovšeobecnení Dedekindových čísel.**

V roku 1897 Richard Dedekind definoval voľný distributívny zväz s n generátormi. Mohutnosť tohto zväzu sa označuje ako tzv. n-té Dedekindovo číslo. Je známe, že n-té Dedekindovo číslo odpovedá počtu všetkých n-árnych binárných monotónnych funkcií, ktoré zachovávajú 0 a 1. Z tohto pohľadu, počet všetkých n-árnych agregačných funkcií definovaných na konečnom reťazci, ako monotónnych funkcií zachovávajúcich najmenší a najväčší prvok, reprezentuje prirodzené zovšeobecnenie n-tého Dedekindovho čísla. Bolo dokázané, že toto zovšeobecnenie je taktiež v súlade s pôvodnou Dedekindovov definíciou. Množina všetkých n-árnych agregačných funkcií spolu s vhodnými operáciami tvorí voľnú algebru s n generátormi v konečno-generovanej variete.

**Autori:** R. Halaš (UP Olomouc), R. Mesiar (STU Bratislava), **J. Pócs** (MÚ SAV, v. v. i.)

**Projekty:** APVV-20-0069, VEGA 2/0097/20, OPII project 313011BWH2: “InoCHF – Research and development in the field of innovative technologies in the management of patients with CHF”

**Referencia:** R. Halaš, R. Mesiar, **J. Pócs:** On the number of aggregation functions on finite chains as a generalization of Dedekind numbers, Fuzzy Sets and Systems **466** (2023), 108441. <https://doi.org/10.1016/j.fss.2022.11.012>

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**On the number of aggregation functions on finite chains as a generalization of Dedekind numbers**

In 1897, Richard Dedekind introduced the free distributive lattice over n generators. The cardinality of this lattice structure is denoted as the n-th Dedekind number. It is known that the n-th Dedekind number corresponds to the number of all n-ary binary monotone functions that preserve 0 and 1. From this point of view, the number of all n-ary aggregation functions defined on a finite chain, as monotone functions preserving the smallest and largest elements, represents a natural generalization of the n-th Dedekind number. It has been shown that this generalization is also consistent with Dedekind's original definition. The set of all n-ary aggregation functions equipped with suitable operations forms a free algebra with n generators in a finitely generated variety.

**Authors:** R. Halaš (UP Olomouc), R. Mesiar (STU Bratislava), **J. Pócs** (MÚ SAV, v. v. i.)

**Projects:** APVV-20-0069, VEGA 2/0097/20, OPII project 313011BWH2: “InoCHF – Research and development in the field of innovative technologies in the management of patients with CHF”

**Reference:** R. Halaš, R. Mesiar, **J. Pócs:** On the number of aggregation functions on finite chains as a generalization of Dedekind numbers, Fuzzy Sets and Systems **466** (2023), 108441. <https://doi.org/10.1016/j.fss.2022.11.012>

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**2.3.2. Výsledky aplikačného typu**

**Pozícia prízvuku v slovanských jazykoch s voľným prízvukom**

Zatiaľ čo napr. v slovenčine je prízvuk vždy na prvej slabike, v niektorých jazykoch sa hovorí o voľnom prízvuku. V článku analyzujeme ruské, slovinské a ukrajinské dáta a ukazujeme, že aj keď pozícia prízvuku v týchto jazykoch nie je deterministická, nie je ani úplne náhodná a dá sa hovoriť o štatistickej tendencii. Vo všetkých troch jazykoch sa prízvuk vyhýba periférii slova a uprednostňuje stred. Navyše sa s rastúcou dĺžkou slova pomaly presúva do druhej polovice slova, do slabiky za stredom.

**Autori: J. Mačutek** (MÚ SAV, v. v. i.), E. Kelih (University of Vienna)

**Projekt:** VEGA 2/0096/21

**Referencia:** **Mačutek, J.**, Kelih, E. Free or not so free? On stress position in Russian, Slovene, and Ukrainian. In: Yamazaki, M., Sanada, H., Köhler, R., Embleton, S., Vulanović, R., Wheeler, E.S. (eds.), *Quantitative Approaches to Universality and Individuality in Language* (pp. 89-100). Berlin, Boston: de Gruyter. <https://doi.org/10.1515/9783110763560-008>

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**Stress position in Slavic languages with free stress**

While, e.g., in Slovak, the stress is always on the first syllable, in some languages, one speaks about so-called free stress. In the paper, we analyze Russian, Slovene, and Ukrainian data. We show that, although the position of the accent in these languages is not deterministic, it is not entirely random either, and one can speak of a statistical tendency. In all three languages, stress avoids the periphery of the word and prefers the center. Moreover, as the length of the word increases, it slowly moves to the second half of the word, to the syllable after the middle.

**Authors: J. Mačutek** (MÚ SAV, v. v. i.), E. Kelih (University of Vienna)

**Project:** VEGA 2/0096/21

**Reference: Mačutek, J.**, Kelih, E. Free or not so free? On stress position in Russian, Slovene, and Ukrainian. In: Yamazaki, M., Sanada, H., Köhler, R., Embleton, S., Vulanović, R., Wheeler, E.S. (eds.), *Quantitative Approaches to Universality and Individuality in Language* (pp. 89-100). Berlin, Boston: de Gruyter. <https://doi.org/10.1515/9783110763560-008>

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**Navrhovanie a konštrukcia metrologického zariadenia pre torzné senzory   
s uhlíkovým ramenom**

Príspevok predstavuje komplexný návrh metrologického zariadenia na overenie a kalibráciu snímača krútiaceho momentu, podrobne popisuje proces od koncepcie až po konštrukciu a zdôrazňuje špecifiká konštrukčného návrhu tak, aby spĺňal metrologické požiadavky. Príspevok sa zaoberá kľúčovou otázkou neistoty merania a požadovanej presnosti dosiahnutej konštrukciou špeciálneho meracieho ramena vyrobeného z uhlíkového materiálu. Sú prezentované MKP analýzy uhlíkového ramena a porovnávané s požadovanými metrologickými presnosťami. Okrem toho rozoberáme rôzne vlastnosti rôznych uhlíkových štruktúr v predimpregnovaných materiáloch použitých pri konštrukcii meracieho ramena a prezentujeme výsledky meraní na takýchto uhlíkových materiáloch. Tento príspevok poskytuje komplexný pohľad na návrh a konštrukciu metrologického zariadenia pre snímače krútiaceho momentu so zameraním na jeho súlad s metrologickými požiadavkami. Je odvodený matematicko-štatistický model generovania statického silového momentu a odhad parametrov tohto modelu aj s určením ich neistôt. Navrhované zariadenie má za cieľ položiť základy primárnej metrológie krútiaceho momentu na Slovensku a má potenciálne uplatnenie v širokom spektre priemyselných odvetví.

**Autori:** Ľ. Kučera, T. Gajdošík, I. Gajdáč, L. Pompáš, L. Smetanka (Univer. of Žilina), V. Witkovský (ÚM SAV, v. v. i.), **G.** **Wimmer** (MÚ SAV, v. v. i.)

**Projekty:** APVV18-066, NFP313011BXF3

**Referencia:** Ľ. Kučera, T. Gajdošík, I. Gajdáč, L. Pompáš, L. Smetanka, V. Witkovský, **G.** **Wimmer**, Design and construction of metrological equipment for torque sensors with a carbon-based measuring arm, Measurement Science Review **23** (4) (2023), 163-167. <https://doi.org/10.2478/msr-2023-0021>

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**Design and construction of metrological equipment for torque sensors with   
a carbon-based measuring arm**

The paper presents a comprehensive design of metrological equipment for torque sensor verification and calibration, detailing the process from conception to construction and highlighting the specifics of the structural design to meet metrological requirements. The measuring device's functionality and the individual structural components are described, as is the methodology for creating a complete product. The paper addresses the crucial issue of measurement uncertainty and the required accuracy, achieved through the construction of a special measuring arm made of carbon material. FEM analyses of the carbon arm are presented and compared with the required metrological accuracies. In addition, we discuss the different properties of various carbon structures in Pre-preg materials used in the construction of the measuring arm and present the results of measurements on such carbon materials. This paper provides a comprehensive insight into the design and construction of metrological equipment for torque sensors, with a focus on its compliance with metrological requirements. A mathematical-statistical model of the generation of a static power moment is derived, and the parameters of this model are estimated, including the determination of their uncertainties. The proposed device aims to establish the foundations for primary metrology of torque in Slovakia and has potential applications in a wide range of industries.

**Authors:** Ľ. Kučera, T. Gajdošík, I. Gajdáč, L. Pompáš, L. Smetanka (Univer. of Žilina), V. Witkovský (ÚM SAV, v. v. i.), **G.** **Wimmer** (MÚ SAV, v. v. i.)

**Projects:** APVV18-066, NFP313011BXF3

**Reference:** Ľ. Kučera, T. Gajdošík, I. Gajdáč, L. Pompáš, L. Smetanka, V. Witkovský, **G. Wimmer**, Design and construction of metrological equipment for torque sensors with a carbon-based measuring arm, Measurement Science Review **23** (4) (2023), 163-167. <https://doi.org/10.2478/msr-2023-0021>

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**Predikčné modely pre pacientov s chronickým zlyhávaním srdca.**

V rámci riešenia úlohy "InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF", bol navrhnutý model pre pripravovanú klinickú štúdiu s využitím telemedicíny. Táto klinická štúdia bude realizovaná v priebehu roku 2024. Tento prístup umožňuje eliminovať problémy, ktoré prináša nedostatok lekárov a zvyšujúci sa priemerný vek obyvateľstva. Taktiež umožňuje systematickejšie sledovanie pacientov. Bol tiež vytvorený prehľad predikčných modelov pre skupiny pacientov s chorobami chronického zlyhávania srdca.

**Autori:** **T. Žáčik**, **I. Mračka**, **I. Odrobina**, **R. Hajossy** (MÚ SAV, v. v. i.)

**Projekt**: InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF, Operačný program Integrovaná infraštruktúra-313010, Kód výzvy: OPII-VA/DP/2021/9.3-01.

**Referencie**:

 **T. Žáčik**, **I. Mračka**, **R. Hajossy**: Správa o prediktívnych modeloch pacientov s chronickým srdcovým zlyhávaním.

 **I. Odrobina**: Clinical predictive modeling of heart failure: domain description, models' characteristics and literature review.

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**Prediction models for patients with chronic heart failure.**

As part of the solution to the Project "InoCHF - research and development in the field of innovative technologies in the management of patients with CHF", a model was designed for the proposed clinical study using telemedicine. This clinical study will be carried out in 2024. This approach makes it possible to eliminate the problems brought about by the lack of doctors and the increasing average age of the population. It also enables a more systematic follow-up of patients. An overview of prediction models for groups of patients with chronic heart failure diseases was also created.

**Authors**: **T. Žáčik**, **I. Mračka**, **I. Odrobina**, **R. Hajossy** (MI SAS)

**Project**: InoCHF – research and development in innovative technologies in managing patients with CHF, Operational program Integrated infrastructure-313010, Call code: OPII-VA/DP/2021/9.3-01.

**References:**

 **T. Žáčik**, **I. Mračka**, **R. Hajossy**: Report on predictive models of chronic heart failure patients.

 **I. Odrobina**: Clinical predictive modeling of heart failure: domain description, models' characteristics and literature review.

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**2.3.3. Výsledky na báze medzinárodnej spolupráce**

**Je možné šírenie skutočne kvantovej informácie?**

Jedným z najdôležitejších výsledkov kvantovej teórie informácie je tzv. no-broadcasting; táto vlastnosť zaručuje, že najjednoduchšie útoky na akýkoľvek kvantový protokol, založené na odpočúvaní a kopírovaní kvantovej informácie, sú nemožné. Vzhľadom na jeho zásadný význam je nevyhnutné pochopiť presné hranice tohto obmedzenia. V článku sme zovšeobecnili štandardnú definíciu broadcastingu obmedzením množiny uvažovaných stavov a obmedzením množiny meraní, ktoré používame na testovanie broadcastingu. Ukázali sme, že v niektorých skúmaných prípadoch je broadcasting ekvivalentný s komutatívnosťou, zatiaľ čo v iných prípadoch komutatívnosť nie je potrebná.

**Autori:** T. Heinosaari (Univ. of Turku, Turku, Finland), **A. Jenčová** (MÚ SAV, v. v. i.)**, M. Plávala**

**Projekty** VEGA 1/0142/20, APVV-20-0069

**Referencia:** T. Heinosaari (Univ. of Turku, Turku, Finland)**, A. Jenčová, M. Plávala**, Dispensing of quantum information beyond no-broadcasting theorem -- is it possible to broadcast anything genuinely quantum? J. Phys. A: Math. Theor. 56 135301, 2023. DOI: [10.1088/1751-8121/acbc5b](https://doi.org/10.1088/1751-8121/acbc5b)

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**Is it possible to broadcast anything genuinely quantum?**

No-broadcasting theorem is one of the most fundamental results in quantum information theory; it guarantees that the simplest attacks on any quantum protocol, based on eavesdropping and copying of quantum information, are impossible. Due to the fundamental importance of the no-broadcasting theorem, it is essential to understand the exact boundaries of this limitation. We generalize the standard definition of broadcasting by restricting the set of states we want to broadcast and the sets of measurements we use to test the broadcasting. We show that in some of the investigated cases, broadcasting is equivalent to commutativity, while commutativity is not necessary in other cases.

**Authors:** T. Heinosaari, **A. Jenčová (**MU SAV, v. v. i.)**, M. Plávala**

**Projects:** VEGA 1/0142/20, APVV-20-0069

**Reference:** T. Heinosaari**, A. Jenčová, M. Plávala**, Dispensing of quantum information beyond no-broadcasting theorem -- is it possible to broadcast anything genuinely quantum? J. Phys. A: Math. Theor. 56 135301, 2023. DOI: [10.1088/1751-8121/acbc5b](https://doi.org/10.1088/1751-8121/acbc5b)

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**Riešiteľnosť symetrických nelineárnych diferenciálnych rovníc**

Zaoberali sme sa diferenciálnymi rovnicami s odchýlkami argumentu. Hlavným zámerom našich bádaní bolo hľadanie riešení so všeobecnými symetrickými vlastnosťami, ktoré môžu byť popísané vlastnosťami párnosti, nepárnosti, periodickosti, antiperiodickosti riešenia (zaoberáme sa prípadom bez rezonancie). Najmä symetrické funkcie môžu byť typu Floke alebo časopriestorové symetrie. Okrem toho, idea obrátenia času (*t →* −*t*) - symetrická invariancia, je dôležitá v kvantovej mechanike. Pre spomínanú symetrickú úlohu sme našli podmienky riešiteľnosti používajúc teóriu okrajových úloh.

**Autori:** **N. Dilna, M. Fečkan** (MÚ SAV, v. v. i)**,** A. Rontó (MÚ AV ČR, Brno)

**Projekty**: VEGA 2/0127/20

**Referencia:** **N. Dilna, M. Fečkan,** A. Rontó. Solvability of the symmetric nonlinear functional differential equations, Mathematical Methods in the Applied Sciences, **46** No.18 (2023),18975-18984. <https://doi.org/10.1002/mma.9603>

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**Solvability of the symmetric nonlinear functional differential equations**

We consider the class of differential equations with argument deviations. Our investigation's main interest is finding solutions with a general symmetric property that can describe the parity, oddness, periodicity, or antiperiodicity of solutions (here, we focus on the no-resonance case). In particular, the symmetric function may be in the form of a Floquet type solution or spatio-temporal symmetries. Moreover, the idea of time-reversal (*t →* −*t*) symmetry invariance is important in quantum mechanics. For the mentioned problem, we find the solvability condition using the theory of boundary value problem.

**Authors: N. Dilna, M. Fečkan** (MÚ SAV, v. v. i)**,** A. Rontó (MÚ AV ČR, Brno)

**Projects**: VEGA 2/0127/20

**Reference:** **N. Dilna, M. Fečkan,** A. Rontó. Solvability of the symmetric nonlinear functional differential equations, Mathematical Methods in the Applied Sciences, **46** No.18 (2023),18975-18984. <https://doi.org/10.1002/mma.9603>

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**Charakterizácia spojitých zúplnení podmienečne kancelatívnych pre-t-noriem, ktoré sú potrebné v probléme charakterizácie (S,N)-implikácií**

Charakterizovali sme spojité zúplnenia podmienečne kancelatívnych pre-t-noriem definovaných v regiónoch súvisiacich s charakterizáciou (S,N)-implikácií, v prípade kde S je spojitá t-konorma a N je fuzzy negácia s jedným bodom nespojitosti. Ukázali sme podmienky existencie a tvar aditívneho generátora kancelatívnej pre-t-normy, ktorá je známa nad rezom v danej hodnote, a pomocou tohto výsledku sme charakterizovali spojité zúplnenia pre-t-noriem zadaných na dvoch základných regiónoch. Na rozdiel od prípadu kancelatívnych pre-t-noriem, kde sú tieto zúplnenia jedinečné, v prípade podmienečne kancelatívnych pre-t-noriem tieto zúplnenia nemusia byť jednoznačne dané. V druhej časti tejto práce sme charakterizovali zúplnenia pre-t-noriem zadaných na poslednom z uvažovaných regiónov, kde je situácia najzložitejšia a preto sa problém musel rozdeliť na šesť rôznych prípadov.

**Autori**: **A. Zemánková** (MÚ SAV, v. v. i.), R. Fernandez-Peralta, S. Massanet ,   
A. Mir (Univ. Balearic Islands, Palma, Spain)

**Projekt**: APVV-20-0069

**Referencie**:

 R. Fernandez-Peralta, S. Massanet, **A. Mesiarová-Zemánková**, A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part I, Fuzzy Sets and Systems **468** (2023), 108614. DOI: [10.1016/j.fss.2023.108614](https://doi.org/10.1016/j.fss.2023.108614)

 R. Fernandez-Peralta, S. Massanet, **A. Mesiarová-Zemánková,** A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part II, Fuzzy Sets and Systems **471** (2023), 108675. DOI: [10.1016/j.fss.2023.108675](https://doi.org/10.1016/j.fss.2023.108675)

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**Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications**

The continuous completions of conditionally cancellative pre-t-norms defined in the regions linked to the characterization of (S, N)-implications when S is a continuous t-conorm, and N is a fuzzy negation with one point of discontinuity have been characterized. We have determined the existence and expression of the additive generator of a cancellative pre-t-norm known above a level curve, and, using this result as a basis, we have provided the continuous completions of pre-t-norms determined in two main regions. Note that, unlike the cancellative case, where all the results provide unique continuous completions, in the analogous situations in the conditionally cancellative case, the corresponding continuous completions might not be unique. In the second part of this work, we have characterized the completions in the last region, where the results are even more complex, and thus, six different cases have to be discussed.

**Authors:** **A. Zemánková** (MÚ SAV, v. v. i.), R. Fernandez-Peralta, S. Massanet , A. Mir (Univ. Balearic Islands, Palma, Spain)

**Projects:** APVV-20-0069

**References:**

 R. Fernandez-Peralta, S. Massanet, **A. Mesiarová-Zemánková**, A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part I, Fuzzy Sets and Systems **468** (2023), 108614. DOI: [10.1016/j.fss.2023.108614](https://doi.org/10.1016/j.fss.2023.108614)

 R. Fernandez-Peralta, S. Massanet, **A. Mesiarová-Zemánková**, A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part II, Fuzzy Sets and Systems **471** (2023), 108675. DOI: [10.1016/j.fss.2023.108675](https://doi.org/10.1016/j.fss.2023.108675)

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**Kombinované účinky nelineárnej difúzie a grandientovo-závislého obmedzenia toku v chemotaxicko-haptotaxickom modeli**

Zaoberali sme sa zovšeobecnením známeho Chaplain-Lolasovho modelu pre šírenie nádorového ochorenia, ktorý popisuje vývoj populácie pomocou chemotaxie (riadený pohyb baktérií a buniek v reakcii na chemickú látku v ich okolitom prostredí) stimulovanej podnetom produkovaným samotnými nádorovými bunkami, ako aj ďalším mechanizmom haptotaxie, riadeným v smere vzostupného gradientu nedifúznej veličiny. Na rozdiel od väčšiny predchádzajúcich štúdií, v tejto práci je uvažovaný problém skúmaný v podmienkach, ktoré sú popísané triedou nelineárnych, na gradiente závislých variantov chemotaktických procesov krížovej difúzie, zahŕňajúcich, v súlade s príslušnou modelovou literatúrou, určitý saturačný mechanizmus závislý od toku. Okrem toho sa predpokladá, že uvažovaný chemoatraktant je produkovaný podľa všeobecného mocninového zákona. Hlavné výsledky zaručujú globálnu existenciu ohraničených riešení za miernych obmedzení pre počiatočné dáta, vhodne zvolených tlmiacich účinkov, pri ľubovoľnom výbere kľúčového parametra merania intenzity produkcie chemoatraktantov. Okrem toho je zahrnuté tvrdenie o časovej perzistencii hmoty v populácii nádorových buniek, ako aj o rozpade haptoatraktantu.

**Autori**: Z. Jiao (Shandong University Jinan, China), **I. Jadlovská** (MÚ SAV, v. v. i.), T. Li (Shandong University Jinan, China).

**Projekty:** NNSF of P. R. China (Grant No. 61503171), CPSF (Grant No. 2015M582091), NSF of Shandong Province (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII) 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.

**Referencia:** Z. Jiao, **I. Jadlovská,** and T. Li: Combined effects of nonlinear diffusion and gradient-dependent flux-limitation on a chemotaxis-haptotaxis model, *Z. Angew. Math. Phys.* **75**, 4 (2024). DOI: [10.1007/s00033-023-02134-2](http://dx.doi.org/10.1007/s00033-023-02134-2)

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**Combined effects of nonlinear diffusion and gradient-dependent flux-limitation on a chemotaxis-haptotaxis model**

We have been concerned with a generalization of the renowned Chaplain-Lolas model for tumor invasion, describing the evolution of a population by means of attractive chemotaxis stimulated by a cue produced by tumor cells themselves, as well as an additional haptotaxis mechanism, directed upward gradients of a non-diffusible quantity. In contrast to most previous studies in this regard, the present paper examines the considered problem in a setting that accounts for a class of nonlinear, gradient-dependent variants of the chemotactic cross-diffusion processes that involve, in accordance with relevant literature, a certain flux-dependent saturation mechanism. Apart from that, the considered chemoattractant is assumed to be produced according to a general power law. In our main theorems, we have established the global existence of bounded solutions under mild assumptions on the initial data and appropriate conditions on the strength of damping effects, and for arbitrary choices of the key parameter measuring the intensity of chemoattractant production. Beyond this, a statement on the large-time persistence of mass in the tumor cell population, as well as on the decay of haptoattractant, is included.

**Authors**: Z. Jiao (Shandong University Jinan, China), **I. Jadlovská** (MÚ SAV, v. v. i.), T. Li (Shandong University Jinan, China).

**Projects:** NNSF of P. R. China (Grant No. 61503171), CPSF (Grant No. 2015M582091), NSF of Shandong Province (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII) 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.

**Reference:** Z. Jiao, **I. Jadlovská,** and T. Li: Combined effects of nonlinear diffusion and gradient-dependent flux-limitation on a chemotaxis-haptotaxis model, *Z. Angew. Math. Phys.* **75**, 4 (2024). DOI: [10.1007/s00033-023-02134-2](http://dx.doi.org/10.1007/s00033-023-02134-2)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2023/ doplnky z r. 2022** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich   vydavateľstvách** (AAB, ABB) | **1 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných   vydavateľstvách** (AAA, ABA) | **0 / 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) | **55 / 4** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **33 / 3** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **3 / 2** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **1 / 0** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **1 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **0 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** |
| **18. Ostatné vydané periodiká** | **0** |
| **19. Zostavovateľské práce knižného charakteru**   (FAI) | **0 / 1** |
| **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. 2022 (zdroj JCR)**   *Počet článkov / doplnky* | 39 / 2 | 14 / 0 | 10 / 3 | 6 / 2 | 69 / 7 |
| **Podľa SJR z r. 2022 (zdroj Scimago)**   *Počet článkov / doplnky* | 24 / 2 | 27 / 2 | 26 / 3 | 11 / 0 | 88 / 7 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2022/ doplnky z r. 2021** |
| **Citácie vo WOS (1.1, 2.1)** | 887 / 6 |
| **Citácie v SCOPUS (1.2, 2.2)** | 144 / 5 |
| **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)** | 28 / 3 |
| **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** | 43 |
| **Prednášky a vývesky na národných vedeckých podujatiach** | 1 |

**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:** J. Makovský (hosť), P. Eliaš (2x), J. Haluška (2x), E. Halušková (2x), M. Hospodár, I. Jadlovská, G. Jirásková, J. Pócs, M. Repický, V. Olejár

**Účasť:** P. Mlynárčik

**Seminár z kvantových logík**

**Vedúci:** A. Dvurečenskij, S. Pulmannová

**Poznámka:** 5 konaní, 8 účastníkov.

**Set-Valued Analysis**

**Vedúci:** Ľ. Holá

**Referáty:** Ľ. Holá (6x), B. Novotný (6x)

**Poznámka:** 12 konaní, 2 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 (2x), M. Repický

**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

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

**Vedúci:** D. Studenovská-Jakubíková (PF UPJŠ)

**Referáty:** E. Halušková (3x), J. Pócs (3x), V. Olejár (2x)

**Poznámka:** Seminár sa uskutočňoval aj online formou.

**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)

**Seminár z matematickej štatistiky na FMFI UK**

**Vedúci:** A. Pázman (FMFI UK)

**Účasť:** A. Jenčová, G. Wimmer

**Poznámka:** Konaný online formou.

**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

**Poznámka:** Konal sa online. 18 konaní, priemerne 32 účastníkov.

**RCQI seminár**

**Vedúci:** M. Sedlák (FÚ SAV)

**Účasť:** A. Jenčová

**Seminár z teoretickej informatiky na UPJŠ**

**Vedúci:**V. Geffert (UPJŠ)

**Referáty:** V. Olejár

**Seminár z kryptológie na FEI STU**

**Vedúci:** O. Grošek

**Účasť:** K. Nemoga, P. Sýs

**Seminár ORBIS – ontologický prístup ku bezpečnosti na FEI STU**

**Vedúci:** spoločný seminár FEI STU, ÚI SAV, MÚ SAV, FMFI UK

**Účasť:** K. Nemoga, P. Sýs

**Categorical Quantum Mechanics**

**Vedúci:** G. Jenča (SvF STU)

**Referáty:** A. Jenčová

**Poznámka:** Konal sa online. 10 konaní, 5 účastníkov.

**Seminár na pologrupy, automaty a jazyky Centra Matematiky Portskej Univerzity**

**Referáty:** V. Olejár

**Poznámka:** Konal sa online.

**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**

 **HOLÁ, Ľ.**—HOLÝ, D.: *Quasicontinuity, measurability and the topology of uniform convergence on compacta*, Ιnternational Conference on Topology and its Applications, Nafpaktos, Grécko, 3. 7.–7. 7. 2023. **Pozvaná prednáška.**

 **JENČOVÁ, A.**: *Recoverability of quantum channels via hypothesis testing* , Linear algebra and quantum information theory minisymposium, 25th Conference of the International Linear Algebra Society, Madrid, 12. 6.–16. 6. 2023. **Pozvaná prednáška.**

 **JENČOVÁ, A.**: *Is it possible to broadcast anything genuinely quantum?*, Quantum Information Theory and Mathematical Physics 2023, Budapest, Maďarsko, 28. 8.–30. 8. 2023. **Pozvaná prednáška.**

 **JIRÁSKOVÁ, G.**: *Operations on Boolean and alternating finite automata*, AFL '23, Eger, Maďarsko, 5. 9.–7. 9. 2023. **Pozvaná prednáška.**

 **KARABÁŠ, J.**: *Snarks with minimal colouring defect*, 58th Czech and Slovak Conference on Graph Theory 2023 (CSGT 2023), Bardejovské kúpele, 29. 5.–2. 6. 2023. **Pozvaná prednáška.**

 **NEDELA, R.**:*Classification of disrete groups of small genera up to the topological equivalence***,** 4th International Conference on Groups, Graphs and Combinatorics**,** SUSTech, Shenzhen, China**,** 10. 11.–14. 11. 2023. **Pozvaná prednáška.**

 **ZEMÁNKOVÁ, A.**: *Uninorms, n-uninorms and pseudo-uninorms with continuous underlying functions*, 40th Linz Seminar on Fuzzy Set Theory (LINZ 2023), Linz, Rakúsko, 6. 6.–9. 6. 2023. **Pozvaná prednáška.**

 **ZEMÁNKOVÁ, A.**: *Construction and representation of associative functions*, 13th Conference of the European Society for Fuzzy Logic and Technology jointly with the AGOP and FQAS conferences (EUSFLAT 2023), Palma de Mallorca, Španielsko, 4. 9.–8. 9. 2023. **Pozvaná prednáška.**

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

 **KARABÁŠ, J.**: *On the relationships in the class of highly symmetric maps*, 21. Konferencia košických matematikov, Herľany, 20. 4.–22. 4. 2023. **Pozvaná prednáška.**

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

1. **JENČOVÁ, A.**: *On some characterizations of sufficient quantum channels*, Mini Workshop: Recent Advances in Quantum Mathematical Statistics, Nagoya University, Japonsko, 21. 11. 2023.

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

 **AGU, F.I.**—**MAČUTEK, J.**: *On an estimation of parameters of discrete distributions from the Schröter family*, ODAM 2023, Olomouc, ČR, 12. 6.–14. 6. 2023.

 **AGU, F.I.**: *A Simple Generalized Schröter family of discrete distributions*, The 10th International Congress on Industrial and Applied Mathematics (ICIAM 2023), Tokyo, Japan, 19. 8.–27. 8. 2023.

 **ČUNDERLÍKOVÁ, K.**: *A note about almost uniformly convergence and a variation on the Egorov's theorem*, ISFS'2023, Rzeszów, Poľsko, 19. 5.–21. 5. 2023.

 **ČUNDERLÍKOVÁ, K.**: *About the Lp space of intuitionistic fuzzy observables*, ICIFS'2023, Sofia, Bulharsko, 26. 6.–27. 6. 2023

 **ČUNDERLÍKOVÁ, K.**: *About the completeness of Lp space of intuitionistic fuzzy observables*, IWIFSGN'2023, Varšava, Poľsko, 20. 10. 2023.

 **ČUNDERLÍKOVÁ, K.**: *Almost uniformly convergence on MV-algebra of intuitionistic fuzzy sets*, Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 15. 12. 2023.

 **DILNA, N.**: *Exact Conditions on the Unique Solvability of the Linear Fractional Functional Differential Equations*, New Trends in the Applications of Differential Equations in Sciences (NTADES'23), St. Constantine and Helena, Bulharsko, 17. 7.–20. 7. 2023.

 **DILNA, N.**: *General Exact Solvability Conditions for the Initial Value Problems for Linear Fractional Functional Differential Equations*, The 34th International Workshop on Operator Theory and is Applications (IWOTA 2023), Helsinki, Finsko, 31. 7–4. 8. 2023.

 **DOBREV, S.**: *Finer modeling of dynamic networks using transition graph*, Moving and Computing workshop (MAC 2023), Tokyo, Japan, 9. 12.–10. 12. 2023.

 **DVUREČENSKIJ, A.**—**ZAHIRI, O.**: *Square roots and their applications on pseudo MV-algebras*, Summer School on General Algebra and Ordered Sets 2023 (SSAOS 2023), Stará Lesná, 2. 9.–8. 9. 2023.

 **ELIAŠ, P.**: *On three characterization results*, 37th International Summer Conference on Real Functions Theory, Rowy, Poľsko, 10. 9.–15. 9. 2023.

 **HALUŠKA, J.**: *Three principles of the European 12-TET system applied to organs of the constant mensure*, 16th International Conference "Material – Acoustics – Place 2023", Zvolen, 20. 9.–22. 9. 2023.

 **HALUŠKOVÁ, E.**: *On discrete properties of monotone mappings*, SSAOS 2023, Stará Lesná, 2. 9.–8. 9. 2023.

 **HOSPODÁR, M.**—JIRÁSEK, J.—**JIRÁSKOVÁ, G.**—ŠEBEJ, J.: *Operational complexity: NFA-to-DFA trade-off*, DCFS '23, Potsdam, Nemecko, 4. 7.–6. 7. 2023.

 **HOSPODÁR, M.**— **JIRÁSKOVÁ, G.**: *Operational complexity in subregular classes*, CIAA '23, Famagusta, Severný Cyprus (Turecko), 19. 9.–22. 9. 2023.

 CHARVÁTOVÁ, CAMPBELL, A.—ŠLESINGER, R.— KLAPETEK, P.—CHVOSTEKOVÁ, M.—HAJZOKOVÁ, L.—WITKOVSKÝ, V.— **WIMMER, G.**: *Locally Best Linear Unbiased Estimation of Regression Curves Specified by Nonlinear Constraints on the Model Parameters*, AMCTM 2023 - Advanced Mathematical and Computational Tools in Metrology and Testing 2023, Institute of Metrology of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 26. 9.–28. 9. 2023.

 CHARVÁTOVÁ, CAMPBELL, A.—KLAPETEK, P.—ŠLESINGER, R.—**WIMMER, G.**—WITKOVSKÝ, V.: *A new algorithm for function fitting: applications in AFM data analysis*, Nanoscale 2023, Helsinki, Finsko, 10. 10.-12. 10. 2023.

 CHARVÁTOVÁ, CAMPBELL, A.—ŠLESINGER, R.— KLAPETEK, P.—**WIMMER, G.**—WITKOVSKÝ, V.—BURŠÍKOVÁ, V.: *OEFPIL: A New Algorithm for Data Fitting in AFM*, NANOCON 2023, Brno, ČR, 18. 10.–20. 10. 2023.

 KUBÁT, M.— ČECH, R.— **MAČUTEK, J.**— NOGOLOVÁ, M.: *An automatic syntax-based genre classification of Czech texts*, CILC 2023, Oviedo, Španielsko, 10. 5.–12. 5. 2023.

 **HOLÁ, Ľ.**—HOLÝ, D.—: *Quasicontinuity, measurability and the topology of uniform convergence on compacta*, XXXVII International Summer Conferenc on Real Functions Theory, Rowy, Poľsko, 10. 9.–15. 9. 2023.

 **LINDENHOVIUS, A.**: *Quantum Suplattices*, 20th International Conference on Quantum Physics and Logic (QPL 2023), Paris, France, 17. 7.–21. 7. 2023.

 **LINDENHOVIUS, A.**: *Quantum Suplattices*, Summer School on General Algebra and Ordered Sets 2023 (SSAOS 2023), Stará Lesná, 2. 9.–8. 9. 2023.

 **MACKO, T.**: *The homological part of the total surgery obstruction*, Winter school on geometry and physics, Srní, ČR, 14. 1.–21. 1. 2023.

 **MAČUTEK, J.**— KELIH, E.— **KOŠČOVÁ, M.**: *A quantitative approach to noun declension in Slavic language*, QUALICO 2023, Lausanne, Švajčiarsko, 28. 6.–30. 6. 2023.

 **MAČUTEK, J.**— KELIH, E.— **KOŠČOVÁ, M.**: *Morphology of nouns in Slavic languages: A quantitative approach*, International Workshop on Corpus Stylistics and Stylometrics, Ostrava, ČR, 21. 6. 2023.

 NOGOLOVÁ, M.— **MAČUTEK, J.**— ČECH, R.: *Distributional properties of linear dependency segments*, QUALICO 2023, Lausanne, Švajčiarsko, 28. 6.–30. 6. 2023.

 **NEDELA, R.**: *Automorphisms and isomorphisms of maps in linear time*, 58th Czech and Slovak Conference on Graph Theory 2023 (CSGT 2023), Bardejovské kúpele, 29. 5.–2. 6. 2023.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**,: *Fréchet subspaces of minimal usco/cusco maps*, International Conference on Topology and its Applications, Nafpaktos, Greece, 3. 7.–7. 7. 2023.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**,: *Fréchet subspaces of minimal usco and minimal cusco maps*, XXXVII International Summer Conference on Real Functions Theory, Rowy, Poľsko, 10. 9.–15. 9. 2023.

 WIMMER, G. ML.— **WIMMER, G.**: *Algorithm for gum-compliant uncertainty matrix in straight-line calibration*, Measurement 2023, 14th International Conference on Measurement, Smolenice, 29. 5.–31. 5. 2023.

 **WIMMER, G.**—WITKOVSKÝ, V.: *Straight-Line Errors-in-Variables Calibration Model*, ODAM 2023 - Olomoucian Days of Applied Mathematics 2023, Olomouc, ČR, 12. 6.–14. 6. 2023.

 **WIMMER, G.**—WITKOVSKÝ, V.—FIŠEROVÁ, E.: *Linearization Region in Straight-Line Calibration*, AMCTM 2023 - Advanced Mathematical and Computational Tools in Metrology and Testing 2023, Institute of Metrology of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 26. 9.–28. 9. 2023.

 **WIMMER, G.**—WITKOVSKÝ, V.: *Straight-line errors-in-variables calibration model versus linear regression model*, Measurement 2023, 14th International Conference on Measurement, Smolenice, 29. 5.–31. 5. 2023.

 **ZAHIRI, O.**: *Lattice ordered groups and their relations with Bezout domains and MV-algebras* *(Part 1)*, International workshop on “Ordered Algebraic Structure”, Beheshti University, Tehran, Iran, 13. 12. 2023.

 **ZAHIRI, O.**: *Lattice ordered groups and their relations with Bezout domains and MV-algebras* *(Part 2)*, International workshop on “Ordered Algebraic Structure”, Beheshti University, Tehran, Iran, 24. 12. 2023.

**2.6.5. Prednášky na domácich vedeckých podujatiach**

**2.6.6. Prednášky na významných vedeckých inštitúciách**

1. **JENČOVÁ, A.**: *Some characterizations of reversibility of quantum channels*, Budapest Institute of Technology and Economics, prednáška na Rényi Institute, Budapešt, Maďarsko, 19. 10. 2023.

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2023**

**2.7.1. Vynálezy, na ktoré bol v roku 2023 udelený patent**

**a) na Slovensku**

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2023**

**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 2023**

**b) udelené v roku 2023**

**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 2023 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** |
| Čunderlíková Katarína | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Dilna Natália | 0 | 0 | 7 | 1 | 0 | 0 | 0 |
| Dvurečenskij Anatolij | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Halušková Emília | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Holá Ľubica | 0 | 1 | 3 | 0 | 0 | 0 | 0 |
| Hospodár Michal | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hyčko Marek | 0 | 0 | 9 | 6 | 0 | 0 | 0 |
| Jadlovská Irena | 0 | 0 | 15 | 0 | 0 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 15 | 0 | 0 | 0 | 0 |
| Kochol Martin | 0 | 0 | 3 | 14 | 0 | 0 | 0 |
| Macko Tibor | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Mačutek Ján | 0 | 0 | 10 | 0 | 0 | 1 | 0 |
| Pócs Jozef | 0 | 0 | 6 | 4 | 0 | 0 | 0 |
| Strauch Oto | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Wimmer Gejza | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Zemánková Andrea | 0 | 0 | 22 | 0 | 0 | 0 | 1 |
| **Spolu** | **0** | **1** | **115** | **27** | **0** | **1** | **1** |

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

**Ostatné dosiahnuté výsledky**

 Definovali sme skoro rovnomernú konvergenciu pre intuitionistické fuzzy pozorovateľné a pre MV-algebru intuitionistických fuzzy množín a formulovali sme variáciu Egorovovej . Ukázali sme súvislosť medzi skoro rovnomernou konvergenciou postupnosti intuitionistických fuzzy pozorovateľných a skoro rovnomernou konvergenciou náhodných premenných. Rovnakú súvislosť sme ukázali aj pre MV-algebru intuitionistických fuzzy množín. Definovali sme Lp priestor intuitionistických fuzzy pozorovateľných a príslušnú intuitionistickú fuzzy pseudometriku. Ukázali sme, že tento priestor spolu s jeho pseudometrikou je úplný pseudometrický priestor.

 Sme sa zaoberali funkcionálno-diferenciálnymi rovnicami ktoré sú formálnou analógiou Eulerovej rovnice pre Stiltjesovu strunu. Našli sme podmienky pre D-stabilitu jediného riešenia modelu Stiltjesovej struny na intervale s nelokálnymi okrajovými podmienkami. Našli sme podmienky pre jednoznačnú riešiteľnosť lineárnej okrajovej úlohy pre frakcionálne funkcionálne diferenciálne rovnice predstavene izotónnymi operátormi. Pre lineárne dynamické systémy s quaterniónmi sme sa zaoberali podmienkami pre stabilitu a nestabilitu.

 Perfektná alebo n-perfektná pseudo efektová algebra sa dá rozložiť na (n+1) veľa neprázdnych navzájom porovnateľných vrstiev. Charakterizovali sme takúto pseudo efektovú algebru ako interval v semidirektnom súčine grupy Z alebo 1/nZ s usmernenou grupou G splňujúcej silnejší druh Rieszovej dekompozičnej vlastnosti RDP1; semidirektný súčin je usporiadaný lexikograficky. Ukázali sme, že kategória perfektných alebo n-perfektných pseudo efektových algebier s RPD1 je kategoriálne ekvivalentná špeciálnej kategórii usmernených po-grúp s RDP1.

 g-stav definovaný na wPEMV-algebre M je také zobrazenie z M do pozitívnej časti reálnych čísel, že zachováva čiastočný súčet a vo fixnej silnej jednotke nadobúda hodnotu 1. g-stavy tvoria B-simplex a extremálne stavy sú presne stavy, ktorých jadro je maximálny a normálny ideál. Ukázali sme, že g-stavy generujú všetky g-stavy. No môže sa stať, dokonca v komutatívnej wPEMV-algebre, že neexistuje g-stav. Predstavili sme niektoré podmienky pre existenciu g-stavov a ukázali sme integrálnu reprezentáciu g-stavov. Predstavili sme topologickú charakterizáciu stavového priestoru g-stavov a extremálnych g-stavov. Okrem toho sa skúmali diskrétne g-stavy.

 Študovali sme adjunkciu voľných a zabúdajúcich funktorov medzi kategóriami ohraničených posetov s involúciou, ortoposetov a ortomodulárnych posetov. Popísali sme konštrukciu voľného ortomodulárneho posetu nad daným ortoposetom.

 Ukázali sme, že organový zvuk produkovaný množinou registrov konštantnej menzúry v zovšeobecnenom 12-tónovom rovnomerne temperovanom systéme nad reálnou osou a s tým istým kamertónom je lineárna varieta nad reálnou osou asociovaná so zvukom normovaného principálového registra.

 Dokázali sme, že pre každú mono-unárnu algebru (A,h) okrem súvislej s cyklom nepárnej dĺžky platí, že existuje netriviálne čiastočné usporiadanie ε také, že operácia h je monotónna vzhľadom na ε. Ďalej, popísali sme všetky mono-unárne algebry, ktorých nosnú množinu je možné lineárne usporiadať tak, že operácia algebry je monotónna vzhľadom na toto lineárne usporiadanie; v prípade, že algebra (A,h) pozostáva z nekonečne veľa komponentov súvislosti, tak počet takýchto lineárnych usporiadaní sa rovná mohutnosti potenčnej množiny A.

 Študovali sa vlastnosti equi-Baire 1 systémov funkcií medzi metrickými priestormi. Uvažujeme tiež equi-Lebesgue systémy funkcií. Skúmame chovanie equi-Baire 1 a equi-Lebesgue systémov funkcií vzhľadom na bodovú a rovnomernú konvergenciu. Našli sme kritérium na výber rovnomerne konvergentnej podpostupnosti z postupnosti funkcií, ktoré tvoria equi-Baire 1 systém. Toto kritérium rieši problém položený v článku M. Balcerzak, O. Karlova, P. Szuca, Equi-Baire 1 families of functions, Topol. Appl. 305 (2022) 107900.

 Stavová zložitosť regulárnej operácie je funkcia, ktorá veľkostiam deterministických konečných automatov pre jazyky vstupujúce do operácie priradí najväčšiu zo stavových zložitostí jazykov, ktoré sú výsledkom tejto operácie. Študujeme stavovú zložitosť prieniku, zjednotenia, zreťazenia, uzáveru a zrkadlového obrazu na triedach kombinačných jazykov. Všetky naše dosvedčujúce jazyky, s výnimkou zrkadlového obrazu na konečne generovaných ľavých ideáloch a usporiadaných jazykoch, sú popísané nad konštantnou abecedou.

 Skúmame operačnú zložitosť za predpokladu, že argumenty sú dané ako nedeterministické konečné automaty a výsledný jazyk je reprezentovaný deterministickým konečným automatom. Ukazujeme, že známe horné odhady zložitostí pre booleovské operácie a zreťazenie sú dosiahnuté ternárnymi jazykmi, a dokazujeme, že v binárnom prípade sú asymptoticky tesné. Pre strojové zreťazenie a štvorec dosiahneme presné hodnoty zložitostí pomocou jazykov nad abecedou veľkosti štyri (strojové zreťazenie) a desať (štvorec). Ukazujeme tiež výsledky pre syntaktickú zložitosť a druhú odmocninu jazyka.

 Študujeme nedeterministickú stavovú zložitosť základných regulárnych operácií na subregulárnych rodinách jazykov. Dostávame presnú zložitosť vo všetkých prípadoch okrem doplnku jednoslovných jazykov, kde máme dolný odhad √n a horný odhad n. Zložitosť všetkých operácií na kombinačných jazykoch je daná konštantnou funkciou, okrem k-tej mocniny, kde je zložitosť k. Zložitosť všetkých operácií na konečných jazykoch, okrem prieniku a doplnku, je dosiahnutá jednoslovnými jazykmi. Pre ostatné triedy je zložitosť

väčšiny operácií rovnaká ako pre regulárne jazyky, ale niekedy je potrebné použiť väčšiu abecedu na popísanie dosvedčujúcich jazykov.

 Odvodili sa vzorce pre výpočet počtu fuzzy a normálnych fuzzy podgrúp parametrickej grupy U6n.

 Aplikovali sme novú metódu iterovaných apriórnych odhadov monotónností neoscilatorických riešení s cieľom získať oscilačné kritériá pre vybrané triedy pololineárnych funkcionálnych diferenciálnych rovníc s neutralitou. Táto metóda sa ukázala mimoriadne efektívna pri štúdiu príslušných obyčajných diferenciálnych rovníc (bez neutrality), kedy vedie k získaniu nevylepšiteľných oscilačných konštánt. V predmetných publikáciách sme sa zamerali na štúdium vplyvu posunutého (zvlášť oneskoreného a predbiehavého) argumentu, ako aj rôznych typov neutralít.

 Našli sme jednoduchý dôkaz charakterizácie (aproximatívnej) reverzibility kvantového kanála na množine stavov pomocou veľkosti nárastu pravdepodobností chýb v testovaní hypotéz.

 Zavádzame cyklické bázy matroidových perspektív a množinovo ohraničených matroidov ako dvojice podmnožín základnej množiny charakterizované cyklami a kocyklami. Prezentujeme novú charakterizáciu Tuttových polynómov matroidivých perspektív a množinovo ohraničených matroidov ako súčet mocnín dvoch premenných pričom mocniny sú určené vlastnosťami dvojíc cyklických báz.

 Našli sme jedno-jednoznačné zobrazenie medzi interpretáciou Tuttového polynómu matroidovej perspektívy a klasickou interpretáciou založenou na vnútorných a vonkajších aktivitách.

 Získali sme kvantizáciu úplných zväzov, ktoré v kontexte suprémum zachovávajúcich zobrazení ako morfizmy, sa nazývajú supzväzy. Dokázali sme klasické vety o úplných zväzoch ako existencia Galoisovej súvislosti a Knasterova-Tarského veta o pevnom bode pre kvantovú štruktúru.

 Dokončili sme monografiu o teórií chirurgií, ktorej finálna verzia má 994 strán. V novembri 2023 bola kniha akceptovaná na publikovanie v sérii Grundlehren der mathematischen Wissenschaften vydavateľstva Springer, kde má vyjsť prvej polovici roka 2024.

 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. 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.

 V Schröterovej triede diskrétnych rozdelení, ktorá obsahuje viaceré modely kolektívneho rizika z teórie poistenia, navrhujeme odhady parametrov, ktoré síce nemajú ideálne vlastnosti, sú ale explicitné a môžu slúžiť ako štartovacie hodnoty v iteračných metódach.

 Bolo ukázané, že v jazykoch s voľným prízvukom síce pozícia prízvuku nie je deterministická, ale ani úplne náhodná – prízvuk sa vyhýba perifériám slova a uprednostňuje slabiky v strede. Boli spresnené podmienky, za platnosti ktorých sa vzťah medzi dĺžkami jazykových jednotiek dá modelovať Menzerathovým-Altmannovým zákonom. Nové výsledky boli dosiahnuté pre morfológiu podstatných mien v slovanských jazykoch, kde sa podarilo zistiť, že kategória životnosti má na tvary podstatných mien väčší vplyv ako kategória rodu.

 Trieda jazykov je uzavretá na danú operáciu, ak výsledný jazyk po aplikovaní operácie patrí do danej triedy vždy, keď do nej patria aj jej operandy. Skúmame uzáverové vlastnosti rôznych podtried regulárnych jazykov pri základných operáciách prieniku, zjednotenia, zreťazenia, mocniny, kladného uzáveru, hviezdy, zrkadlového obrazu a doplnku. Uvažujeme tieto triedy: definitné jazyky a ich varianty (ľavý ideál, konečne generovaný ľavý ideál, symetricky definitný jazyk, zovšeobecnený definitný jazyk a kombinačný jazyk), obojstranné kométy a ich varianty (kométy a hviezdičkové jazyky) a triedy singletonových,

 Študovali sme order unit priestory s vlastnosťami komparability a spektrality vo Foulisovom zmysle. Definovali sme spojitý funkcionálny kalkulus pre order unit priestory s komparabilitou, a Borelov funkcionálny kalkulus pre spektrálne order unit priestory. Použitím podmienok Alfsena a Schultza sme charakterizovali order unit priestory s komparabilitou, ktoré sú JB-algebry. Dokázali sme charakterizáciu Rickartových JB-algebier ako tých JB-algebier, v ktorých každá maximálna asociatívna podalgebra je monotónne sigma-úplná.

 Študovali sme spektralitu vo Foulisovom zmysle pre konvexné a sekvenciálne efektové algebry. Ukázali sme, že za dodatočných podmienok (silná archimedovskosť, uzavretosť v norme a istá podmienka monotonicity pre sekvenciálny súčin), taká efektová algebra je spektrálna vtedy a len vtedy, keď jej každá maximálna komutatívna podalgebra je monotónne sigma-úplná. Ukázali sme, že dva predchádzajúce výsledky o existencii spektrálnych rozkladov v konvexných sekvenciálnych algebrách vyžadujú silnejšie predpoklady.

 Navrhli sme novú výpočtovú metódu na fitovanie nelineárnej krivky údajmi so všeobecnou kovariančnou štruktúrou. Táto metóda sa aplikuje na Oliver-Pharrovu analýzu kriviek odľahčenia a riešia sa rozdiely medzi rôznymi regresnými metódami. Numerické simulácie ukazujú, že nová metóda poskytuje odhady parametrov v súlade s inými metódami pre jednoduché kovariančné štruktúry. Získané odhady neistoty sú v súhlase so štúdiami Monte Carlo.

 Model lineárnej kalibrácie možno považovať za lineárny regresný model s chybami v premenných (straight-line errors-in-variables regression model). V prípade, že tento model nemôžeme považovať za lineárny regresný model, odporúča sa na odhad parametrov použiť metódu vážených celkových najmenších štvorcov (WTLS) a určiť maticu neistôt aplikáciou zákona šírenia neistoty (LPU), ako je uvedené v GUM (Guide to the expression of uncertainty in measurement). Podrobne sme popísali LPU maticu neistôt.

 Určili sme podmienky, za ktorých regresný model s chybami v premenných stimulu aj odozvy možno považovať za tradičný model lineárnej regresie. Okrem toho sa snažíme vytvoriť pravidlá na stanovenie lokálne najlepších lineárnych nevychýlených odhadov (BLUE) optimálnym spôsobom pre odhadovanie parametrov modelu, ich kovariančnej matice a intervalov spoľahlivosti pre všetky možné lineárne kombinácie parametrov modelu tak, aby tieto odhady zaručovali spoľahlivé inferencie.

 Uvažujeme merací model lineárnej komparatívnej kalibrácie. Vektory meraní sú normálne rozdelené náhodné vektory, μ a ν sú vektory ich stredných hodnôt a platí μ = a1 + bν. Rozvíjame funkciu strednej hodnoty modelu pomocou Taylorovho rozvoja vo vhodne zvolených počiatočných hodnotách μ0;a0;b0 parametrov modelu. V uvažovanom prípade lineárno-kvadratický regresný model priamych meraní sa získa s novými parametrami δμ;δa;δb. Ak sú členy druhého rádu v Taylorovom rozvoji funkcie stredných hodnôt štatisticky významné, odporúčame použiť metódu vážených celkových najmenších. Ako alternatívny prístup možno použiť metódu Monte Carlo.

 Zamerali sme sa na odhad parametrov v rámci Errors-in-Variables (EIV) model (model s chybami v premenných) s nelineárnymi ohraničeniami a určením neistôt odhadov. Tu sa stretávame s výzvou presne prispôsobiť krivky špecifikované nelineárnymi obmedzeniami parametrov k výsledkom meraní, ktoré prichádzajú so súvisiacimi neistotami, pri súčasnom rešpektovaní ich korelácií. Náš navrhovaný prístup je založený na iteračných linearizáciách modelu EIV s nelineárnymi ohraničeniami parametrov, ktoré sú špecifikované v implicitnej forme. Používame lokálnu metódu najlepšieho nevychýleného lineárneho odhadovania (LBLUE). Táto metóda bola efektívne implementovaná v rôznych výpočtových prostrediach vrátane R a C a je tu uvedená v kontexte programu MATLAB, doplnená o názorné príklady.

 Správny spôsob, ako fitovať dáta F-D (force-distance, sila-vzdialenosť) krivky, je použiť ortogonálnu regresiu so správnou kovariančnou maticou. Ak sa použije iba LSM (metóda najmenších štvorcov), výsledné hodnoty odhadov môžu byť v praxi s reálnymi experimentálnymi údajmi viac ako X percent nesprávne a odhadované neistoty môžu byť Y percent nesprávne. Najviac populárna metóda najmenších štvorcov dosahuje svoj limit v nanometrii. Ak relatívne neistoty rastú, pojem exaktne známej nezávislej premennej a pojem neznámej závislej premennej, ktorá je jadrom najmenších štvorcov, stráca svoju platnosť. Rastúca zložitosť procesu merania môže viesť ku koreláciám. Nový algoritmus - Optimálny odhad funkcie parametre iterovanej linearizácie (OEFPIL) dokáže spracovať širokú triedu funkcií, ako aj všeobecné kovariančné matice. V tejto práci je algoritmus OEFPIL aplikovaný na analýzu F-D kriviek v AFM mikroskopii (mikroskopia atómových síl).

 Kompletne sme charakterizovali pseudo-uninormy so spojitými Archimedovskými pridruženými funkciami a ukázali sme, že každá pseudo-uninorma so spojitými Archimedovskými pridruženými funkciami je komutatívna vo vnútri jednotkového štvorca.

 Ukázali sme, že každá nekomutatívna, idempotentná (internálna) asociatívna funkcia sa dá reprezentovať pomocou (lineárneho) združeného usporiadania. Navyše, každá nekomutatívna, internálna asociatívna funkcia sa dá vyjadriť ako ordinálny súčet triviálnych pologrúp a pologrúp, kde je príslušná pologrupová operácia projekcia na niektorú zo súradníc. Ukázali sme tiež podmienky pre asociativitu funkcie indukovanej združeným usporiadaním.

 Popísali sme komutatívne, asociatívne a monotónne funkcie definované na horizontálnom súčte reťazcov ako aj rôzne nutné a postačujúce podmienky ktoré zabezpečia, že sa takáto funkcia dá vyjadriť ako netriviálny (*z*-)ordinálny súčet pologrúp. Charakterizovali sme niektoré špeciálne triedy takýchto funkcií a ukázali sme konštrukčné metódy pre špeciálne funkcie, ako sú napr. t-normy, t-konormy, uninormy, či nullnormy definované na horizontálnom súčte reťazcov.

 Kompletne sme charakterizovali idempotentné uninormy definované na ohraničených zväzoch, v ktorých je každý prvok porovnateľný s neutrálnym prvkom danej uninormy, ako aj idempotentné uninormy definované na ohraničených zväzoch, kde je práve jeden prvok neporovnateľný s neutrálnym prvkom danej uninormy.

 Boli vyvinuté techniky na elimináciu útokov typu SQL injection v databázach webových aplikácií. Bola vytvorená ontológia OBSQL na riešenie detekcie slepej SQL zraniteľnosti. Preukázala sa tým aj ďalšia využiteľnosť ontológií v kybernetickom priestore v reálnom režime.

**3. Medzinárodná vedecká spolupráca**

**3.1. Medzinárodné vedecké podujatia**

**3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2023 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
IWIFS-2023 - Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 18 účastníkov, 15.01.-15.01.2023

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 ako napr. z Indie, Poľska, Mexika.

Summer School on General Algebra and Ordered Structures (SSAOS 2023), KC Academia, Stará Lesná, Slovensko, 45 účastníkov, 02.09.-08.09.2023

**3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2024 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets/IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 13.12.-13.12.2024, (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 |
| Holá Ľubica | 1 | 0 | 0 |
| Hospodár Michal | 1 | 0 | 0 |
| Jenčová Anna | 1 | 1 | 0 |
| Jirásková Galina | 1 | 0 | 0 |
| Nemoga Karol | 2 | 0 | 0 |
| Olejár Viktor | 0 | 3 | 0 |
| Zemánková Andrea | 1 | 0 | 0 |
| **Spolu** | 7 | 4 | 1 |

**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)

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 | Projekty NATO SFP | 46 |

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

Kvôli sprísneným protiepidemiologickým opatrenia proti šíreniu Covid 19, väčšina medzinárodných konferencií sa buď presunula na neurčitý čas alebo prešli do on-line priestoru. V r. 2023 sa situácia začala zlepšovať.

*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: 2022

Rok využívania do: trvá

Projekt:

Rok vytvorenia výsledku: 2022

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 2023

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2023** | | | | **Počet doktorandov po doktorandskej skúške** | | **Počet ukončených doktorantúr v r. 2023** | | | | | |
| **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 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Denná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 5 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Z toho zahraničných** | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Súhrn** | 6 | | 1 | | 3 | | 0 | | 0 | | 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 2023 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 2023 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 2023 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 2023 (obhajoba leto 2023)** | **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 |

*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

|  |  |  |  |
| --- | --- | --- | --- |
| **Cotutelle** | **Co-direction** | **Iné** | **Zahraniční doktorandi  štátne občianstvo/počet** |
| 0 | 0 | 0 | EGY/1, NGA/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) |
| aplikovaná matematika | 9.1.9 |  | 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.   
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.*

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. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | Ing. Michal Hospodár, PhD. (IIa) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | doc. RNDr. Ľubica Holá, DrSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| 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) |  |

Tabuľka 5h Účasť na pedagogickom procese (pokr.)

|  |  |  |
| --- | --- | --- |
| **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** |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) |  |  |
| Mgr. Anna Jenčová, DrSc. (aplikovaná matematika) |  |  |
| doc. Mgr. Ján Mačutek, PhD. (odbor v zahraničí) |  |  |
| 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 2023

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 6 | 1 | 6 | 0 |
| **Celkový počet hodín v r. 2023** | 584 | 78 | 537 | 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** | 5 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 14 |
|
| **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** | 1 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 1 |
|
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc.   prác** | 0 |
|
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD.   prác** | 1 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 2 |
|

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

Pracovníci Matematického ústavu SAV úspešne školia doktorandov na iných školiacich pracoviskách mimo MÚ SAV.

T. Macko:

* Ajay Ray (FMFI UK) - Geometria a topológia
* Serhii Dylda (FMFI UK) - Geometria a topológia
* Mgr. Samuel Kalužný (FMFI UK) - Geometria a topológia

A. Zemánková: Mgr. Juraj Kalafut (Svf STU, Bratislava) - Aplikovaná matematika

**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:** 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:** 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.

**Názov projektu:** InoCHF–výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF

**Agentúra:** Výskumná agentúra

**číslo projektu:** NFP313011BWH2

**Spolupracujúce inštitúcie:** Trnavská univerzita v Trnave, Merchant, s.r.o.

**Koordinátor projektu:** Trnavská univerzita v Trnave

**Začiatok spolupráce:** 2022

**Koniec spolupráce:** 2023

**Zhodnotenie:** Pracujeme na problematike predikčných modelov pre vyhodnotenie stavu pacienta s chorobou chronického zlyhávania srdca.

**Plánované projekty:**

V spolupráci s Trnavskou univerzitou v Trnave a firmou MOVING MEDICAL MEDIA s.r.o. bol podaný projekt DigiMent: 09I05-03-V02-00084 „Digitálne riešenia na podporu duševného zdravia u pacientov s CHF (Digital solutions in support of mental health in patients with CHF)“.

*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 | 11 | tlač | 0 | TV | 0 |
| rozhlas | 0 | internet | 2 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 4 |  |  |  |  |

**7.2. Vedecko-organizačná činnosť**

Tabuľka 7b Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| IWIFS-2023 - Workshop on Intuitionistic Fuzzy Sets | medzinárodná | Banská Bystrica | 15.1.-15.1.2023 | 18 |
| Summer School on General Algebra and Ordered Structures (SSAOS 2023) | medzinárodná | KC Academia, Stará Lesná, Slovensko | 2.9.-8.9.2023 | 45 |

**7.3. Účasť na výstavách**

V dňoch 23. a 24. júna sa konali v SND a na námestí pred SND oslavy 70. výročia založenia Slovenskej akadémie vied. Počas oboch dní mal Matematický ústav vlastný stánok, kde E. Halušková a V. Olejár prezentovali *Model qubitu a jeho aplikácia* na popularizačných aktivitách.

**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.

Communications in Mathematical Analysis (funkcia: editor)

Differential Equations & Applications (funkcia: editor)

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

Dynamics of Partial Differential Equations (funkcia: editor)

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

Journal of Applied Mathematics (funkcia: editor)

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

Journal of Modeling, Simulation, Identification, and Control (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)

prof. RNDr. Juraj Hromkovič, DrSc.

Computing and Informatics (funkcia: člen)

Grammars (funkcia: člen)

Pokroky matematiky, fysiky a astronomie (funkcia: člen)

RAIRO­ Theoretical Information and Applications (funkcia: člen)

Ing. Irena Jadlovská, PhD.

Applied Mathematics in Science and Engineering (funkcia: editor)

Journal of Mathematics and Computer Science (funkcia: editor)

Mathematics (funkcia: editor špeciálneho čísla s názvom Mathematical Modeling and Simulation of Oscillatory Phenomena)

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)

RNDr. Alžbeta Michalíková, PhD.

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

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

Krajská komisia matematickej olympiády Prešovský kraj (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**

Bol získaný projekt MPS SAV (Malá projektová schéma SAV na podporu popularizácie a propagácie vedy) s názvom "*Modelovanie qubitu a jeho aplikácia na popularizačných aktivitách*".

**Riešitelia:** E. Halušková, V. Olejár.

**Dosiahnuté výsledky:** Pripravili sme 25 modelov qubitu. Modely boli použité na Víkende so SAV a počas aktivít košického pracoviska v rámci TVT.

**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 |
| doc. RNDr. Karol Nemoga, CSc. | Poradný výbor člena Správnej rady NATO Diana za SR | člen |

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

Riešenie problémov ochrany informácií MO SR.

**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)

- Komisia SAV pre rovnosť (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. – 31. 12. 2023)

- Rada riaditeľov (Predseda RR1 SAV (Rada riaditeľov 1. oddelenia vied SAV))

**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](https://hrs4r.sav.sk/wp-content/uploads/Europska_charta_a_kodex_vyskumnych_pracovnikov.pdf) (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 2023 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**

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** | 12 | 8 | 4 | 3 | 2 | 1 |
| **2. Projekty APVV** | 2 | 1 | 1 | 6 | 5 | 1 |
| **3. Projekty EŠIF/OP ŠF,   Plán obnovy EÚ** | 0 | 0 | 0 | 1 | 1 | 0 |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 0 | 0 | 0 | 0 | 0 | 0 |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 1 | 1 | 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 |

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov (pokr.)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Organizácia SAV je nositeľom projektu** | | | **Organizácia SAV je zmluvným partnerom** | | |
| **Počet** | **Hlavný riešiteľ** | | **Počet** | **Hlavný riešiteľ  za organizáciu** | |
|  | **Muž** | **Žena** |  | **Muž** | **Žena** |
| **5. Projekty v rámci medzivládnych   dohôd** | 1 | 1 | 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**

*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. Organizačné a právne zmeny v organizácii**

**11.1. Informácie o vnútorných organizačných zmenách**

V období roku 2023 nenastali žiadne zmeny.

*Uveďte stručné, základné informácie k problematike.*

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

V období roku 2023 nenastali žiadne zmeny.

*Uveďte stručné, základné informácie k problematike.* **12. Činnosť knižnično-informačného pracoviska organizácie**

**12.1. Knižničný fond**

Tabuľka 12a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | | **27 238** |
| z toho | knihy a zviazané periodiká | 27 135 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | 2 |
| Rukopisy, vzácne tlače | - |
| Počet titulov dochádzajúcich periodík | | 76 |
| z toho zahraničné periodiká | | 66 |
| Ročný prírastok knižničných jednotiek | | 101 |
| v tom | kúpou | 9 |
| darom | 4 |
| 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)** | | **16** |
| v tom z r. 1 | prezenčné výpožičky | 5 |
| absenčné výpožičky | 11 |
| v tom z r. 1 | odborná literatúra pre dospelých | 10 |
| výpožičky periodík | 6 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 27 |

**12.3. Používatelia**

Tabuľka 12c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 10 |

**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 € | 933,50 |

**12.5. Iné informácie o knižničnej činnosti**

V roku 2023 bol zabezpečený voľný prístup do matematickej databázy Zentralblatt MATH (FIZ Karlsruhe GmbH), súčasť práce Slovenskej jednotky redakcie, ktorú zabezpečuje Matematický ústav SAV, v. v. i.

**13. Nadácie a fondy pri organizácii**

Pri Matematickom ústave SAV, v. v. i. nepôsobia žiadne nadácie alebo fondy.   
 **14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie**

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

Hodnotenie Akreditačného panelu bolo B/C. Jeho vyjadrenia a odporúčania prerokovalo vedenie ústavu ako aj Vedecká rada ústavu. Zásadné návrhy boli nasledujúce:

1. **Panel:** Na ústave je výskum v najmenej 10 zameraniach, čo je pri 30 výskumných pracovníkoch veľa.

**Naše stanovisko:** Zásadne sme nesúhlasili. 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.

1. Panel vymenoval 7 oblastí, v ktorých vidí možný ďalší rozvoj. Tieto oblasti koincidujú s naším rozdelením, iba niektoré zamerania boli spojené. Navrhol vyvinúť stratégiu na zvýšenie počtu výskumníkov.

**Naše stanovisko:** S týmto možno súhlasiť, ale zvýšenie počtu pracovníkov z rozpočtu je problematické až nemožné. Rozšíriť sa dá iba z mimorozpočtových prostriedkov. To je cesta, ktorú sledujeme, ale táto vyžaduje silne aplikovaný výskum. Navyše výziev na vhodné projekty je málo.

1. **Panel**: Nemáme ujasnenú publikačnú stratégiu. Publikujeme v rôznych časopisoch a to hlavne tam, kde je článok prijatý.

**Naše stanovisko:** Zásadný nesúhlas. Stratégia ústavu je publikovať v kvalitných časopisoch, čo sa dnes hodnotí hlavne kvartilom. Ústav sa za posledné roky vo svojich výstupoch posunul vo svojich výstupoch výrazne do 1. a tiež 2. kvartilu. V niektorých oblastiach, vzhľadom na rôznu citovanosť sú najlepšie svetové časopisy až v druhom alebo treťom kvartile (napr. teória čísel alebo aj moderná kryptológia). Časopis, ktorý vydáva ústav je v prvom kvartile hodnotenie WOS, Clarivate. Všetko to preukazuje zameranie na kvalitné výstupy.

1. **Panel:** Publikačný ohlas je priemerný.

**Naše stanovisko:** Zásadne nesúhlasíme. Vzhľadom na citovanosť v matematike je náš ohlas nadpriemerný. Prof. RNDr. Michal Fečkan, DrSc. patril medzi 1 % najcitovanejších vedcov na svete pracujúcich v rôznych výskumných zameraniach v r. 2019 a 2021.

1. **Panel:** Spolupráca s vysokými školami je náhodná a nie štruktúrovaná.

**Naše stanovisko:** Zásadne nesúhlasíme. Naša spolupráca je jedna z najrozsiahlejších v SAV a je tradične zameraná na dlhoročnú spoluprácu s konkrétnymi fakultami.

1. **Panel:** Príjmy z mimorozpočtových aktivít sú symbolické.

**Naše stanovisko:** Príjmy z interakcií s firmami poklesli vzhľadom na rapídne zníženie prepravy plynu cez Ukrajinu. Preto sme sa zamerali na riešenie projektov. V tejto oblasti sme dosiahli príjmy za niekoľko miliónov EUR, čo nie je symbolické.

1. **Panel:** Navrhol zlepšiť vizualizáciu na WEBe a zvýšiť popularizáciu.

**Naše stanovisko:** Súhlasíme s tým, že v tejto oblasti sa môžeme zlepšiť. Nie v tom, že tam máme staré príspevky a mix. Staršie príspevky na WEBe majú svoju cenu a snažíme sa pokryť všetky oblasti činnosti.

1. **Panel:** Boli sme kritizovaní, že publikujeme/produkujeme až tri časopisy.

**Naše stanovisko:** 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.

1. **Panel:** Dôležité je omladiť ústav.

**Naše stanovisko:** S týmto odporúčaním súhlasíme. Všetci kvalitní mladí pracovníci majú u nás otvorené dvere. Posilnili sme aj

* + Stáže študentov na ústave,
  + Prijímanie postdotorandov na dobu určitú. V roku 2023 dvaja.
  + Vypisovanie projektov na postdoktorandské miesta. V roku 2023 9 projektov.

1. **Panel:** Treba posilniť funkciu medzinárodného poradného panelu.

**Naše stanovisko:** S týmto sa stotožňujeme. Čiastočne boli kontakty s panelom pribrzdené pandémiou.

1. **Panel:** Treba zvýšiť počet pracovníkov a rozpočet na jedného pracovníka.

**Naše stanovisko:** Silne súhlasíme, ale to nie je v našej kompetencii.

1. **Panel:** Treba zvýšiť počet PhD. študentov.

**Naše stanovisko:** Súhlasíme. V roku 2023 sme vypísali konkurz prostredníctvo EUROAXES. Prihlásili sa nám 4 študenti (Bangladéš, Maroko, Egypt, Egypt). Bol prijatý iba jeden, lebo nemá zmysel prijímať menej kvalitných študentov kvôli naplneniu počtov.

Celkove bol pohľad a odporúčania panelu nezodpovedajúce skutočnosti a nedalo sa so všetkými stotožniť. Často to bolo dané tým, že sú z iného prostredia a naše zatiaľ nie je totožné s prostredím na západných vysokých školách. Z toho vyplýva, že hlavne pracovisko samé musí hlboko zvažovať svoju činnosť a vedieť, na čo sa zamerať. Pri budúcej akreditácii sa bude treba vyvarovať takýchto postupov.

Matematický ústav SAV, v. v. i. prijal návrh opatrení na zlepšenie akreditácie 2026/2027.

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

**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. 2020 boli.

 Doktorandské štúdium

 Spolupráca s VŠ

 Diverzita pracovníkov

 Projektová aktivita, medzinárodné projekty

 Medziakademická spolupráca

 Strategické zameranie

 Multidisciplinárny výskum

 Strategické formovanie ústavu

 Pomenovanie ústavu

 Publikačné prostredie

 Publikovanie vlastných výsledkov

 Vydávanie časopisov

 Problematika duševného vlastníctva

 Rozpočet pracoviska

 Manažment a infraštruktúra pracoviska

Akčný plán je každoročne prehodnocovaný.

**14.3. Aktualizácia Akčného plánu organizácie v roku 2023**

V roku 2023 sme urobili niekoľko výrazných krokov v jeho plnení:

* Dr. Omid Zahiri, Teherán, Irán, nastúpil mladý kolega v rámci štipendia SASPRO II na MÚ SAV, v. v. i. na 36 mesiacov, Dr. Zahiri pokračujem v projekte.
* Na doktorandské štúdium na ústave sme prijali kolegu z Egypta.
* V r. 2023 nastúpil na ústav mladý Dr. A. Lindenhovius z Holandska.

S Výskumnou agentúrou pokračujeme realizovaní jednej zmluvy na realizáciu projektu Operačného programu Výskum a inovácie a podali sme jeden veľký nový projekt a 10 R1 až R4 projektov.

Časopisu Mathematica Slovaca sa zvýšil impaktový faktor z IF(2021)=0,996 na IF(2022)=1,6, čím sa dostal do 1. kvartilu v sekcii matematika. Päťročný impakt faktor 1.1. V databáze Scopus má časopis SJR(2022)=0,418, ktorý je mierne znížený oproti SJR(2021)=0,432, (Scimago Journal Ranking), Cite Score = 1.9 a je v 2. kvartile.

Týmito krokmi sme plnili odporúčania akreditačného panelu smerom ku omladeniu ústavu, posilneniu počtu postdoktorandov. Súčasne sme rozšírenie spolupráce zamerali na získavanie ďalších mimorozpočtových zdrojov, čo umožní ďalšie zvýšenie počtu mladých pracovníkov.

Na základe odporúčania panelu ústav vytvoril novú WEB stránku, na ktorú postupne presúva všetky položky. (adresa: <https://mat.sav.sk>)

Medzinárodný poradný panel Matematického ústavu SAV má nasledujúce zloženie:

 **Prof. István Gáal**, Univ. of Debrecen, Debrecén, Maďarsko

 **Prof. Antonio Di Nola**, University of Salerno, Salerno, Taliansko,

 **Prof. Lajos Molnár, DSc.,** Dep. of Analysis, Bolyai Institute, University of Szeged, Szeged, Maďarsko

 **RNDr. Jiří Rákosník, CSc.,** bývalý riaditeľ Matematického ústavu AV ČR v Prahe.

**15. Iné významné činnosti organizácie SAV**

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 druhého 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 550 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(2022)=1,6, päťročný impakt faktor 1.1 a je v 1. kvartile v sekcii matematika. V databáze Scopus má časopis SJR(2022)=0,418 (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. 2023 vyšiel 82. zväzok. 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 0,217 a je v 4. 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>.

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2022 vyšiel 17. ročník. Adresa je http://udt.mat.savba.sk a http://www.boku.ac.at/MATH/udt. Časopis vydávame spolu s BOKU University vo Viedni. 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>.

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.

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

**Matematický ústav SAV, v. v. i. 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, v. v. i. 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, v. v. i. tieto informácie:

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

Matematický ústav SAV, v. v. i. (ďalej len MÚ SAV, v. v. i.) 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.

 zákona č. 243/2017 Z.z.

|  |  |
| --- | --- |
| **Názov organizácie:** | Matematický ústav SAV, v. v. i. |
| **Sídlo MÚ SAV, v. v. i.:** | Bratislava, Štefánikova 49, 814 73 Bratislava |
| **Identifikačné číslo:** | 166791 |
| **Forma hospodárenia:** | Verejná výskumná inštitúcia |
| **Dátum zriadenia:** | 01.03.1959 (v. v. i. od 01.01.2022) |
| **Označenie štatutárneho orgánu:** | riaditeľ |

MÚ SAV, v. v. i. je verejná výskumná 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, v. v. i.:**

 Matematický ústav SAV, v. v. i., Štefánikova 49, 814 73 Bratislava

 Oddelenie informatiky MÚ SAV, v. v. i., Dúbravská cesta 9, 841 04 Bratislava

 Detašované pracovisko MÚ SAV, v. v. i., Grešákova 6, 040 01 Košice

 Inštitút matematiky a informatiky MÚ SAV, v. v. i., Ďumbierska 1, 974 11 Banská Bystrica

**Orgány MÚ SAV, v. v. i.:**

 Správna rada MÚ SAV, v. v. i.

 Dozorná rada MÚ SAV, v. v. i.

 Vedecká rada MÚ SAV, v. v. i.

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

**Financovanie MÚ SAV, v. v. i.:**

MÚ SAV, v. v. i. je financovaný z rozpočtovej kapitoly štátneho rozpočtu, ktorej správcom je SAV. Práva a povinnosti MÚ SAV, v. v. i. 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, v. v. i. 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, v. v. i. 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, v. v. i. 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, v. v. i. (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. poštou,

g. e-mailom,

h. 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, v. v. i., Štefánikova 49, 814 73 Bratislava

 telefonicky na telefónnom čísle : 02 / 5751 0414

 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, v. v. i., 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, v. v. i.. Odpoveď podpisuje riaditeľ MÚ SAV, v. v. i..

(10) Žiadosť s dokumentáciou sa po vybavení ukladá na MÚ SAV, v. v. i.. 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:**

 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.

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

 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.

 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 1,00- EUR.

|  |  |
| --- | --- |
| Internet | zadarmo |
| Rozmnoženie 1 ČB strany | 0.10,- EUR |
| Rozmnoženie 1 farebnej strany | 0,15,- EUR |

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

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

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

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

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

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

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

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

 zákon č. 243/2017 Z. z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov

 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**

V tejto časti sme v predchádzajúcich výročných správach uvádzali porovnanie vo financovaní ústavu. Vzhľadom na zmenenú štruktúru toto porovnanie vykonáme neskôr.

V niektorých parametroch je porovnanie problematické, lebo vo výkazoch sa nerozlišuje prostriedky získané a prostriedky použité, čo by bolo treba doplniť.

V priebehu roku 2023 sme ukončili riešenie projektu 313011BWH2 „InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF“ s predpokladaným príjmom cca 450 tisíc EUR. V roku 2023 sa realizovali sa príjmy vo výške 150 tisíc EUR, rovnako ako v roku 2022. V roku 2024 bude pokračovať realizácia žiadostí o platbu, ako refundácie výdavkov. Rovnako bude pokračovať riešenie projektu v rámci udržateľnosti projektu.

V APVV sme v roku 2023 riešili rovnaký počet projektov ako v roku 2022 s príjmami zhruba v rovnakej výške. Časť príjmov transferujeme na vysoké školy, ale je to dôležitý nástroj spolupráce.

V projektoch VEGA sme zaznamenali nárast počtu projektov a tiež zvýšenie príjmov o 22% oproti roku 2022. Prejavuje sa tu stále dynamika v počte pracovníkov, ktorí riešia projekty VEGA.

Aby sme udržali financovanie podali sme v roku 2023 11 projektov v rámci Plánu obnovy.

V roku 2022 sme zaznamenali ďalší nárast počtu pracovníkov o 1,62 pracovníka (k 31. 12.), vo vedeckých pracovníkoch 1,64 pracovníka. V strednej hodnote prekročili limit pracovníkov spred roku 2019 o troch pracovníkov (limit 46). Priemerný vek vedeckých pracovníkov zostal rovnaký, ako v roku 2021, čo odzrkadľuje nevyhnutné malé omladenie. Omladenie pracoviska stále považuje za kľúčové.

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

Vyhodnocujeme skúsenosti z prechodu na v. v. i. Bolo by potrebné zmeniť niektoré predpisy, napríklad, aby sa dalo vyraďovať nepoužiteľné predmety z majetku organizácie.

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.

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 2023 neobnovili.

Popularizačná aktivita ústavu sa v poslednom roku bola priemerná. Zúčastnili sme sa akcie Deň otvorených dverí, v rámci Týždňa otvorených dverí.

**18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok**

Vedecká rada Matematického ústavu SAV, v. v. i. prerokovala dňa 14. 2. 2024 túto výročnú správu, časť A.

Dosiahnuté výsledky za rok 2023 sú z hľadiska parametrov vyššie ako v roku 2022 (články CC, WOS, kvartily). To znamená, že stále drží pozitívny trend v oblasti merateľných parametrov. V oblasti ohlasov sú tieto mierne nižšie, ale v rámci bežnej odchýlky.

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

Prerokovala Vedecká rada MÚ SAV dňa 14. 2. 2024

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

**Výročnú správu o činnosti organizácie za rok 2023 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, 15. 2. 2024

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

**PRÍLOHY k časti A**

***Príloha A-1***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2023**

**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. | [Mgr. Natália Dilna, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7075) | 100 | 1.00 |
| 3. | [RNDr. Stefan Dobrev, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5681) | 100 | 1.00 |
| 4. | [prof. RNDr. Michal Fečkan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2373) | 50 | 0.50 |
| 5. | [prof. RNDr. Otokar Grošek, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13381) | 45 | 0.45 |
| 6. | [doc. RNDr. Ján Haluška, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5687) | 100 | 1.00 |
| 7. | [prof. RNDr. Miroslav Haviar, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12402) | 11 | 0.11 |
| 8. | [Ing. Michal Hospodár, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10212) | 100 | 1.00 |
| 9. | [Ing. Irena Jadlovská, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12670) | 100 | 1.00 |
| 10. | [RNDr. Galina Jirásková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5691) | 100 | 1.00 |
| 11. | [doc. Mgr. Ján Karabáš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5693) | 20 | 0.20 |
| 12. | [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2369) | 100 | 1.00 |
| 13. | [doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5701) | 100 | 1.00 |
| 14. | [doc. RNDr. Milan Paštéka, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6691) | 3 | 0.03 |
| 15. | [RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5704) | 100 | 1.00 |
| 16. | [RNDr. Michal Pospíšil, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6622) | 20 | 0.20 |
| 17. | [doc. PhDr. Silvia Puteková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13296) | 16 | 0.16 |
| 18. | [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. Katarína Čunderlíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11192) | 100 | 1.00 |
| 3. | [RNDr. Peter Eliaš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5682) | 100 | 1.00 |
| 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) | 20 | 0.00 |
| 8. | [Ing. Fedor Lehocki, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13295) | 40 | 0.39 |
| 9. | [Albertus Lindenhovius, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13845) | 100 | 0.58 |
| 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. | [RNDr. Alžbeta Michalíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11193) | 11 | 0.11 |
| 13. | [Mgr. Peter Mlynárčik, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=9397) | 11 | 0.11 |
| 14. | [Ing. Igor Mračka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7987) | 100 | 1.00 |
| 15. | [Mgr. Branislav Novotný, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5700) | 100 | 1.00 |
| 16. | [RNDr. Igor Odrobina, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12404) | 100 | 1.00 |
| 17. | [doc. PaedDr. Martin Papčo, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=8050) | 5 | 0.05 |
| 18. | [RNDr. Martin Plávala, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10048) | 100 | 0.00 |
| 19. | [Mgr. Eva Plávalová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11194) | 3 | 0.03 |
| 20. | [Mgr. Ladislav Stacho, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5714) | 100 | 0.00 |
| 21. | [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 |
| 22. | [Mgr. Elena Vinceková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5727) | 100 | 1.00 |
| 23. | [Dr. Omid Zahiri, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13294) | 100 | 1.00 |
| 24. | [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. | [Mgr. Barbora Rajčeková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13846) | 60 | 0.55 |
| 3. | [Ing. Peter Sýs](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11919) | 3 | 0.03 |
| 4. | [Mgr. Jana Valigurská](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13041) | 3 | 0.03 |
| **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) | 71 | 0.71 |
| 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. | [Ing.arch. Terézia Sedláková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6653) | 59 | 0.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Marianna Bečková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12405) | 60 | 0.00 |
| 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) | 71 | 0.71 |
| 5. | [Zuzana Kvapilová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11783) | 100 | 1.00 |
| 6. | [Katarína Nagyová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6694) | 60 | 0.60 |
| 7. | [Eugénia Ondrušková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2374) | 100 | 1.00 |
| 8. | [Bc. Henrieta Paľová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6720) | 24 | 0.24 |
| 9. | [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** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [prof. RNDr. Juraj Hromkovič, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5689) | 31.1.2023 | 0.00 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Ing.arch. Terézia Sedláková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6653) | 31.12.2023 | 0.00 |

**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 | 9.1.9 aplikovaná matematika |
| 2. | Ing. Ferdinand Čapka | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Mgr. Viktor Olejár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Ahmed Ibrahim Mohamed Mahmoud Abo Saied | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 5. | Ing. Peter Sýs | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 6. | Mgr. Jana Valigurská | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| *organizácia nemá interných doktorandov hradených z iných zdrojov* | | | |
| **Externí doktorandi** | | | |
| *organizácia nemá externých doktorandov* | | | |

**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**

|  |  |
| --- | --- |
|  | **Meno s titulmi** |
| 1. | RNDr. Imrich Vrťo, DrSc. |
| 2. | prof. RNDr. Marián Vajteršic, DrSc. |

***Príloha A-2***

**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Programy: Medzivládna dohoda**

**1.) Frekvencia a skloňovanie v slovanských jazykoch (ruština, slovenčina, slovinčina)** *(Frequency and declensional morphology in Slavic languages (Russian, Slovak and Slovene))*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Mačutek |
| **Trvanie projektu:** | 1.4.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | SK-AT-20-0003 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Rakúsko: 1, Slovensko: 1 |
| **Čerpané financie:** | APVV: 931 € |

*Dosiahnuté výsledky:*

1. KELIH, Emmerich\*\* - MAČUTEK, Ján - KOŠČOVÁ, Michaela - BENKO, Vladimír. Nouns more similar to the nominative form are more frequent: a case study in Slovak. In Glottotheory : International Journal of Theoretical Linguistics, 2023, vol. 14, no. 1, p. 69-80.   
   
2. MAČUTEK, Ján - KOŠČOVÁ, Michaela - KELIH, Emmerich - ČECH, Radek. Frequency and morphological behaviour of nouns in Czech and Russian. In Bohemistyka, 2023, vol. 1, p. 109-117.   
   
**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: 1359 € |

*Dosiahnuté výsledky:*   
Zaoberali sme sa definovaním Lp priestoru pre intuitionistické fuzzy pozorovateľné a ukázali sme, že tento priestor spolu s príslušnou pseudometrikou je pseudometrický priestor. Takisto sme formulovali skoro rovnomernú konvergenciu pre intuitionistické fuzzy pozorovateľné definované v príslušnej MV-algebre a dokázali sme variáciu Ergovovovej vety.   
   
1. ČUNDERLÍKOVÁ, Katarína. About the Lp space of intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2023, vol. 29, no. 2, p. 90-98. ISSN 1310-4926. Dostupné na: https://doi.org/10.7546/nifs.2023.29.2.90-98   
   
2. ČUNDERLÍKOVÁ, Katarína. A note about almost uniformly convergence and a variation on the Egorov´s theorem. In ISFS 2023 International Symposium on Fuzzy Sets : Abstracts.Uncertainty Modelling. - Rzeszow, Poland : University of Rzeszow, 2023, p. 33-34. ISBN 978-83-8277-077-3.   
   
**2.) Modely a algoritmy pre výpočty s neúplnou informáciou** *(Models and algorithms for computing with incomplete information)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stefan Dobrev |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 1/0601/20 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FMFI UK |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 2002 € |

*Dosiahnuté výsledky:*   
   
   
**3.) Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov** *(Qualitative properties and bifurcations of differential equations and dynamical system)*

|  |  |
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| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0127/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 13636 € |

*Dosiahnuté výsledky:*

1. Q. Li, M. Fečkan, J.R. Wang: Velocity field and pressure analysis of equatorial flows beneath solitary water waves, Nonlinear Analysis: Real World Applications (2023), 103754

2. Y. Zou, M. Fečkan, J.R. Wang: Hyers-Ulam stability of linear recurrence with constant coefficients over the quaternion skew yield, Qualitative Theory of Dynamical Systems 22 (2023), Art. no. 3

3. L. Suo, Fečkan, J.R. Wang: Existence of periodic solutions to quaternion-valued impulsive differential equations, Qualitative Theory of Dynamical Systems 22 (2023), Art. no. 1

4. M. A. Ali, Z. Zhang, M. Fečkan: On some error bounds for Milne's formula in fractional calculus, Mathematics 11 (2023), 146.

5. Q. Wen, M. Fečkan, J.R. Wang: The controllability for second-order semilinear impulsive systems, Qualitative Theory of Dynamical Systems 22 (2023), 1-34.

6. M.-F. Danca, M. Fečkan: Non-periodicity of complex Caputo like fractional differences, Fractal and Fractional 7 (2023), 68.

7. M. Fečkan: Travelling waves in nonlinear lattices, Contemporary Mathematics, H. Dutta, Eds., American Mathematical Society 787 (2023), 1-25.

8. N. Dilna, M. Fečkan, A. Rontó: Solvability of the symmetric nonlinear functional differential equations, Mathematical Methods in Applied Sciences 46 (20230, 18975-18984.

9. M. Fečkan, K. Marynets, J.R. Wang: Existence of solutions to the generalized periodic fractional boundary value problem, Mathematical Methods in the Applied Sciences 46 (2023), 11747-12124.

10. J.M. Jonnalagadda, J. Alzabu, M. Fečkan: Existence and stability of solutions for nonlinear impulsive nabla fractional boundary value problems of order less than one, Discontinuity, Nonlinearity, and Complexity 11 (2023), 231-244.

11. N. Z. Dilna, M. Fečkan, J.R. Wang: Note on quaternion linear dynamical systems, Nonlinear Oscillations 26 (2023), 22-32.

12. L. Suo, M. Fečkan, J.R. Wang: Controllability and observability for linear quaternion-valued impulsive differential equations, Communications in Nonlinear Science and Numerical Simulation 124 (2023), 107276.

13. Y. Zou, M. Fečkan, J.R. Wang: Hyers-Ulam-Rassias stability of linear recurrence over the quaternion skew yield, Rocky Mountain Journal of Mathematics 53 (2023), 661-670.

14. M.-F. Danca, M. Fečkan: Mandelbrot set and Julia sets of fractional order, Nonlinear Dynamics 111 (2023), 9555–9570.

15. M. Fečkan, K. Marynets, J.R. WaNG: Non-local fractional boundary value problems with applications to predator-prey models, Electronic Journal of Differential Equations 2023 (2023), No. 58, pp. 1-17.

16. J.R. Wang, M. Fečkan, Y. Guan: Local and global analysis for discontinuous atmospheric Ekman equations, Journal of Dynamics and Differential Equations 35 (2023), 663-677.

17. T. Yang, M. Fečkan, J.R. Wang: On some azimuthal equatorial flows, Monatshefte fur Mathematik 200 (2023), 955-970.

18. T. Yang, M. Fečkan, J.R. Wang: Explicit solutions of atmospheric Ekman flows for some eddy viscosities in ellipsoidal coordinatess, Dynamics of Partial Differential Equations 20 (2023), 99-115.

19. Y. Guan, M. Fečkan, J.R. Wang: The Ekman spiral for two types of eddy viscositieson, Applicable Analysis 102 (2023), 2925-293.

20. W. Qiu, M. Fečkan, J.R. Wang: Convergence analysis for iterative learning control of fractional-order nonlinear differential inclusion system, Journal of the Franklin Institute 360 (2023), 5392-5410.

21. M. Li, M. Fečkan, J.R. Wang: Representation and finite time stability of solution and relative controllability of conformable type oscillating systems, Mathematical Methods in the Applied Sciences 46 (2023), 3966-3982.

22. B. Babajanov, M. Fečkan, A. Babadjanova: On the differential-difference Sine-Gordon equation with an integral type source, Mathematical Slovaca 73 (2023), 1499-1510.

23. M. Medveď, M. Pospíšil, E. Brestovanská: Nonlinear integral inequalities involving tempered Psi-Hilfer fractional integral and fractional equations with tempered Psi-Caputo fractional derivative, Fractal and Fractional 7 (2023), 611.

24. M. Medveď, M. Pospíšil: Generalized Laplace transform and tempered Psi-Caputo fractional derivative, Mathematical Modelling and Analysis 28 (2023), 146-162.

25. N. Dilna: General exact solvability conditions for the initial value problems for linear fractional functional differential equations, Archivum Mathematicum 59 (2023), 11–19.

26. N. Dilna: Precise conditions on the unique solvability of the linear fractional functional differential equations related to the Sigma-nonpositive operators, Fractal and Fractional 7 (2023), 720.

27. N. Dilna: Unique solvability of the initial-value problem for fractional functional differential equations—Pantograph-type model, Fractal and Fractional 7 (2023), 65.

28. N. Dilna, S. Leshchuk: D-stability of the model of the Stieltjes string, Applicable Analysis 102,18 (2023), 100092, 5157–5169.

29. M. Bohner, S.R. Grace, I. Jadlovská: Sharp results for oscillation of second-order neutral delay differential equations. In Electronic Journal of Qualitative Theory of Differential Equations 2023, No. 4 (2023), 1-23.   
   
**4.) 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: 5286 € |

*Dosiahnuté výsledky:*

1. L'ubica Holá, Dušan Holý, and Branislav Novotný, Spaces of Minimal Usco and Minimal Cusco Maps as Fréchet Topological Vector Spaces, Advances in Topology and Their Interdisciplinary Applications, Springer, 2023   
2. Marek Balcerzak , L'ubica Holá, Dušan Holý, Properties of equi-Baire 1 and equi-Lebesgue families of functions, predložené   
   
- V článku študujeme vlastnosti equi-Baire 1 systémov funkcií medzi metrickými priestormi. Uvažujeme tiež equi-Lebesgue systémy funkcií. Skúmame chovanie equi-Baire 1 a equi-Lebesgue systémov funkcií vzhľadom na bodovú a rovnomernú konvergenciu. Našli sme kritérium na výber rovnomerne konvergentnej podpostupnosti z postupnosti funkcií, ktoré tvoria equi-Baire 1 systém. Toto kritérium rieši problém položený v článku M. Balcerzak, O. Karlova, P. Szuca, Equi-Baire 1 families of functions, Topol. Appl. 305 (2022) 107900.   
   
**5.) Matematické modely neklasických javov a neurčitosti** *(Mathematical models of non-classical events and uncertainty)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0142/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 10194 € |

*Dosiahnuté výsledky:*

1. A. Dvurečenskij: Representation of perfect and n-perfect pseudo effect algebras. In Fuzzy Sets and Systems, 2023, vol. 455, p. 19-34. DOI: 10.1016/j.fss.2022.08.015   
   
2. A. Dvurečenskij: g-States on unital weak pseudo EMV-algebras. In Soft Computing, 2023, vol. 27, no. 8, p. 4353-4368. DOI: 10.1007/s00500-023-07850-5   
   
3. A. Dvurečenskij, O. Zahiri: Some results on pseudo MV-algebras with square roots. In Fuzzy Sets and Systems, 2023, vol. 465, art. no. 108527. DOI: 10.1016/j.fss.2023.108527   
   
4. A. Dvurečenskij, O. Zahiri: On EMV-algebras with square roots. In Journal of Mathematical Analysis and Applications, 2023, vol. 524, art. nr. 127113. DOI: 10.1016/j.jmaa.2023.127113   
   
5. A. Jenčová, S. Pulmannová: Spectral order unit spaces and JB-algebras. In Journal of Mathematical Analysis and Applications, 2023, vol. 520, no. 2, art. nr. 126911. DOI: 10.1016/j.jmaa.2022.126911   
   
6. A. Jenčová, S. Pulmannová: Spectrality in convex sequential effect algebras. In International Journal of Theoretical Physics, 2023, vol. 62, art. nr. 193. DOI: 10.1007/s10773-023-05431-8   
   
7.T. Heinosaari, A. Jenčová, M. Plávala: Dispensing of quantum information beyond no-broadcasting theorem - is it possible to broadcast anything genuinely quantum?, J. Phys. A: Math. Theor., 2023, vol. 56, art. nr. 135301. DOI: 10.1088/1751-8121/acbc5b   
   
8.A. Jenčová: The exponential Orlicz space in quantum information geometry, Information Geometry (special issue: Half a Century of Information Geometry), 2024, vol. 7, p. 377-395. DOI: https://doi.org/10.1007/s41884-023-00097-x   
   
9. A. Jenčová: Recoverability of quantum channels via hypothesis testing, prijaté to tlače v Letters in Mathematical Physics.   
   
**6.) Automaty a formálne jazyky: popisná a výpočtová zložitosť** *(Automatons 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: 5631 € |

*Dosiahnuté výsledky:*   
1. M. Hospodár, V. Olejár: The cut operation in subclasses of convex languages. Theoretical Computer Science 969 (2023), art. nr. 114050. https://doi.org/10.1016/j.tcs.2023.114050   
   
2. M. Hospodár, V. Olejár: Nondeterministic operational complexity in subregular languages. Theoretical Computer Science 972 (2023), art. nr. 114075. https://doi.org/10.1016/j.tcs.2023.114075   
   
3. M. Hospodár, J. Jirásek, G. Jirásková, J. Šebej: Operational Complexity: NFA-to-DFA Trade-Off, DCFS 2023, pp. 79–93. DOI: 10.1007/978-3-031-34326-1\_6   
   
4. M. Hospodár, G. Jirásková: Operational Complexity in Subregular Classes. In Lecture Notes in Computer Science : Implementation and Application of Automata CIAA 2023. - Heidelberg : Springer, 2023, vol. 14151, pp. 153-165. DOI: 10.1007/978-3-031-40247-0\_11   
   
5. G. Jirásková: Operations on Boolean and Alternating Finite Automata. In Electronic Proceedings in Theoretical Computer Science : Automata and Formal Languages AFL 2023, 16th International Conference, Eger, Hungary, September 5-7, 2023 - Sydney : University of New South Wales, 2023, vol. 386, pp. 3-10. DOI: 10.4204/EPTCS.386.1   
   
**7.) 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: 1812 € |

*Dosiahnuté výsledky:*

1. KOCHOL, M.: Interpretations for the Tutte polynomials of morphisms of matroids, Discrete Applied Mathematics 322 (2022), 210–216 (ADCA).   
2. KOCHOL, M.: One-to-one correspondence between interpretations of the Tutte polynomials, Journal of Combinatorial Theory, Series B 162 (2023), 134–143 (ADCA).   
   
**8.) Rozdelenia pravdepodobnosti a ich aplikácie v modelovaní a testovaní** *(Probability Distributions and their Applications in Modeling and Testing)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Mačutek |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0096/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | VEGA SAV: 8699 € |

*Dosiahnuté výsledky:*

1. 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.   
   
2. KELIH, Emmerich\*\* - MAČUTEK, Ján - KOŠČOVÁ, Michaela - BENKO, Vladimír. Nouns more similar to the nominative form are more frequent: a case study in Slovak. In Glottotheory : International Journal of Theoretical Linguistics, 2023, vol. 14, no. 1, p. 69-80.   
   
3. MAČUTEK, Ján - KOŠČOVÁ, Michaela - KELIH, Emmerich - ČECH, Radek. Frequency and morphological behaviour of nouns in Czech and Russian. In Bohemistyka, 2023, vol. 1, p. 109-117.   
   
4. MAČUTEK, Ján - KELIH, Emmerich. Free or not so free? On stress position in Russian, Slovene, and Ukrainian. In Quantitative Approaches to Universality and Individuality in Language. 1. vydanie. - Berlin, Germany : de Gruyter, 2023, p. 89-100. ISBN 978-3-11-062808-1.   
   
5. MOTALOVÁ, Tereza\*\* - MAČUTEK, Ján - ČECH, Radek. Word Length in Chinese: The Menzerath-Altmann Law is Valid After All. In Journal of Quantitative Linguistics, 2023, vol. 30, no. 3-4, p. 304-321.   
   
**9.) Grafové invarianty, symetrie a ohodnotenia** *(Graph invariants, symmetries and labellings)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0078/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 1714 € |

*Dosiahnuté výsledky:*

1. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin. Perfect-matching covers of cubic graphs with colouring defect 3. In Proceedings of the 12th European Conference on Combinatorics, Graph Theory and Applications. - Prague, Czech Republic : Masaryk University Press, 2023, p. 639-646. ISBN 978-80-280-0344-9. ISSN 2788-3116. Dostupné na: https://doi.org/10.5817/CZ.MUNI.EUROCOMB23-088   
   
2. KARABÁŠ, Ján - NEDELA, Roman – SKYVOVÁ, Mária. Computing equivalence classes of finite group actions on orientable surfaces, J. Pure and Applied Algebra, 228 (2024) 107578.   
   
3. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin.   
Colouring defect of a cubic graph and the conjectures of Fan-Raspaud and Fulkerson,   
arXiv:2312.13638v1 [math.CO] 21 Dec 2023   
   
4. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin.   
Berge's conjecture for cubic graphs with small colouring defect,   
arXiv e-prints, arXiv: 2210.13234   
   
5. ESTÉLYI, István - KARABÁŠ, Ján – MEDNYKH, Alexander - NEDELA, Roman.   
Jacobian of a graph and graph automorphisms,   
arXiv preprint arXiv:2206.01469   
   
   
**10.) 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: 3625 € |

*Dosiahnuté výsledky:*   
   
**11.) Algebrické a topologické aspekty agregačných funkcií**

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| **Zodpovedný riešiteľ:** | Jozef Pócs |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0097/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 9062 € |

*Dosiahnuté výsledky:*

1. R. Halaš, R. Mesiar, J. Pócs: On the number of aggregation functions on finite chains asageneralization of Dedekind numbers, Fuzzy Sets and Systems 466 (2023), 108441.   
   
2. R. Halaš, J. Pócs, J. Pócsová: On join-dense subsets of certain families of aggregation functions. In Mathematics, 2023, vol. 11, no. 1, art. nr. 14. DOI: https://doi.org/10.3390/math11010014   
   
3. O. Krídlo, D. Lopez-Rodriguez, Ľ. Antoni, P. Eliaš, S. Krajči, M. Ojeda-Aciego: Connecting concept lattices with bonds induced by external information. In Information Sciences, 2023, vol. 648, art. nr. 119498. DOI: 10.1016/j.ins.2023.119498   
   
4. Ľ. Antoni, P. Eliaš, T. Horváth, S. Krajči, O. Krídlo, Cs. Torok: Squared symmetric formal contexts and their connections with correlation matrices. In Graph-Based Representation and Reasoning. Lecture Notes in Computer Science. - Heidelberg : Springer, 2023, vol. 14133, p. 19-27. DOI: 10.1007/978-3-031-40960-8\_2

5. P. Eliaš, Ľ. Antoni, O. Krídlo, S. Krajči: Additional Notes on Heterogeneous Concept-Forming Operators. In: Cornejo, M., Kóczy, L.T., Medina, J., Ramírez-Poussa, E. (eds) Computational Intelligence and Mathematics for Tackling Complex Problems 5. Studies in Computational Intelligence, vol 1127. Springer, Cham. 2024.

6. T. Pitka, J. Bucko, S. Krajči, O. Krídlo, J. Guniš, Ľ. Šnajder, Ľ. Antoni, P. Eliaš: Time analysis of online consumer behavior by decision trees, GUHA association rules, and formal concept analysis. Journal of Marketing Analytics (2024). DOI: [10.1057/s41270-023-00274-y](https://doi.org/10.1057/s41270-023-00274-y)

7. E. Halušková: On discrete properties of monotone mappings. Asian European Journal of Mathematics 16 (2023), Issue 10, pp.16.

**12.) 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: 7412 € |

*Dosiahnuté výsledky:*   
   
**13.) 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. 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)   
   
2. HALUŠKA, Ján. Three Principles of the European 12-TET System Applied to Organs of the Constant Mensure. In Nové trendy akustického spektra : Vedecký recenzovaný zborník. - Zvolen : Technická univerzita vo Zvolene, 2023, s. 69-76. ISBN 978-80-228-3374-5. Dostupné na internete: https://acoustics.sk/new-trends-of-acoustic-spectrum/   
   
**14.) 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: 1116 € |

*Dosiahnuté výsledky:*

1. ŠUCH, Ondrej - FABRICIUS, René. Bridging performance gap between minimal and maximal SVM models. In Transactions on Machine Learning Research, 2023, march, p. 1-15. ISSN 2835-8856. Dostupné na internete: https://openreview.net/forum?id=SM1BkjGePI   
   
**15.) 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: 2002 € |

*Dosiahnuté výsledky:*

1. Y. Su, A. Mesiarová-Zemánková, R. Mesiar, Idempotent uninorms on a bounded chain, Fuzzy Sets and Systems 471, (2023), 108671.   
   
2. A. Mesiarová-Zemánková, Decomposition of idempotent pseudo-uninorms via ordinal sum, Information Sciences 648, (2023), 119519.   
   
3. A. Mesiarová-Zemánková, J. Kalafut, Pseudo-uninorms with continuous Archimedean underlying functions, Fuzzy Sets and Systems 471, (2023), 108674.   
   
**Programy: APVV**

**16.) 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: 25221 € |

*Dosiahnuté výsledky:*

1. DVUREČENSKIJ, A. g-States on unital weak pseudo EMV-algebras. SOFT COMPUTING, 2023, roč. 27 (2023), č. 8, s. 4353--4368. ISSN 1432-7643. DOI: 10.1007/s00500-023-07850-5   
   
2. DVUREČENSKIJ, A. Representation of perfect and n-perfect pseudo effect algebras. FUZZY SETS AND SYSTEMS, 2023, roč. 455 (2023), s. 19--34. ISSN 0165-0114. https://doi.org/10.1016/j.fss.2022.08.015   
   
3. DVUREČENSKIJ, A., ZAHIRI, O. On EMV-algebras with square roots. JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, 2023, roč. 524 (2023), Art. Num 127113. ISSN 0022-247X https://doi.org/10.1016/j.jmaa.2023.127113   
   
4. DVUREČENSKIJ, A., ZAHIRI, O. Some results on pseudo MV-algebras with square roots. FUZZY SETS AND SYSTEMS, 2023, roč. 465 (2023), Art. Num 108527. ISSN 0165-0114. https://doi.org/10.1016/j.fss.2023.108527   
   
5. Teiko Heinosaari, Anna Jenčová, Martin Plávala, Dispensing of quantum information beyond no-broadcasting theorem -- is it possible to broadcast anything genuinely quantum?, J. Phys. A: Math. Theor. 56 135301, 2023   
   
6. Radomír Halaš, Radko Mesiar, Jozef Pócs: On the number of aggregation functions on finite chains asageneralization of Dedekind numbers, Fuzzy Sets and Systems 466 (2023), 108441.   
   
7. A. Mesiarová-Zemánková, Representation of non-commutative, idempotent, associative functions by pair-orders, Fuzzy Sets and Systems 475, (2024), 108759.   
8. A. Mesiarová-Zemánková, J. Kalafut, Pseudo-uninorms with continuous Archimedean underlying functions, Fuzzy Sets and Systems 471, (2023), 108674.   
   
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, J. Kalafut, Pseudo-uninorms with continuous Archimedean underlying functions, Fuzzy Sets and Systems 471, (2023), 108674.   
   
11. R. Fernandez-Peralta, S. Massanet, A. Mesiarová-Zemánková, A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part I, Fuzzy Sets and Systems 468, (2023), 108614.   
   
12. R. Fernandez-Peralta, S. Massanet, A. Mesiarová-Zemánková, A. Mir, Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part II, Fuzzy Sets and Systems 471, (2023), 108675.   
   
**17.) 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. Ľubica Holá, Dušan Holý, and Branislav Novotný, Spaces of Minimal Usco and Minimal Cusco Maps as Fréchet Topological Vector Spaces, Advances in Topology and Their Interdisciplinary Applications, Springer, 2023   
   
2. Marek Balcerzak , Ľubica Holá, Dušan Holý, Properties of equi-Baire 1 and equi-Lebesgue families of functions, predložené   
   
- V článku študujeme vlastnosti equi-Baire 1 systémov funkcií medzi metrickými priestormi. Uvažujeme tiež equi-Lebesgue systémy funkcií. Skúmame chovanie equi-Baire 1 a equi-Lebesgue systémov funkcií vzhľadom na bodovú a rovnomernú konvergenciu. Našli sme kritérium na výber rovnomerne konvergentnej podpostupnosti z postupnosti funkcií, ktoré tvoria equi-Baire 1 systém. Toto kritérium rieši problém položený v článku M. Balcerzak, O. Karlova, P. Szuca, Equi-Baire 1 families of functions, Topol. Appl. 305 (2022) 107900.

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

|  |  |
| --- | --- |
| **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: 3600 € |

*Dosiahnuté výsledky:*

1. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin. Perfect-matching covers of cubic graphs with colouring defect 3. In Proceedings of the 12th European Conference on Combinatorics, Graph Theory and Applications. - Prague, Czech Republic : Masaryk University Press, 2023, p. 639-646. ISBN 978-80-280-0344-9. ISSN 2788-3116. Dostupné na: https://doi.org/10.5817/CZ.MUNI.EUROCOMB23-088   
   
2. KARABÁŠ, Ján - NEDELA, Roman – SKYVOVÁ, Mária. Computing equivalence classes of finite group actions on orientable surfaces, J. Pure and Applied Algebra, 228 (2024) 107578.   
   
3. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin.   
Colouring defect of a cubic graph and the conjectures of Fan-Raspaud and Fulkerson,   
arXiv:2312.13638v1 [math.CO] 21 Dec 2023   
   
4. KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin.   
Berge's conjecture for cubic graphs with small colouring defect,   
arXiv e-prints, arXiv: 2210.13234   
   
5. ESTÉLYI, István - KARABÁŠ, Ján – MEDNYKH, Alexander - NEDELA, Roman.   
Jacobian of a graph and graph automorphisms,   
arXiv preprint arXiv:2206.01469   
   
**19.) 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: 6252 € |

*Dosiahnuté výsledky:*

1. J. R. Dora, L. Hluchý, K. Nemoga: Ontology for blind SQL injection. In Computing and informatics, 2023, vol. 42, no. 2, p. 480-500. DOI: 10.31577/cai\_2023\_2\_480

**20.) 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. Wimmer, G. jr., Wimmer, G., Algorithm for GUM-compliant uncertainty matrix in straight-line calibration, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 23-26 (ADN) (SCOPUS).   
   
2. Wimmer, G., Witkovský, V., Straight-line errors-in-variables calibration model versus linear regression model, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 19-22 (ADN) (SCOPUS).   
   
Prednáška na medzinárodnej konferencii ODAM 2023 v Olomouci

3. Wimmer, G., Witkovský V., Straight-Line Errors-in-Variables Calibration Model, ODAM - Olomoucian Days of Applied Mathematics 2023, June 12 – 14, (2023, Olomouc).\   
   
Prednáška na medzinárodnej konferencii AMTCM v Sarajeve (online)

4. Charvatová Campbell, A., Šlesinger, R., Klapetek, P., Chvosteková, M., Hajzoková, L., Witkovský, V., Wimmer, G., Locally Best Linear Unbiased Estimation of Regression Curves Specified by Nonlinear Constraints on the Model Parameters, International Conference Advanced Mathematical and Computational Tools in Metrology and Testing 2023, 26-28 September, 2023, Sarajevo, Bosnia and Herzegovina.   
   
Prednáška na (medzinárodnej konferencii AMTCM v Sarajeve (online)

5. Wimmer, G.,Witkovský, V., Fišerová, E., Linearization Region in the Straight-Line Calibration, International Conference Advanced Mathematical and Computational Tools in Metrology and Testing 2023, 26-28 September, 2023, Sarajevo, Bosnia and Herzegovina.   
   
6. pripravil sa na publikovanie rukopis článku: Charvatová Campbell, A., Klapetek, P., Šlesinger, R., Witkovský, V., Wimmer, G., Fitting the force-distance curves the correct way.   
   
Poster na medzinárodnej konferencii Nanoscale 2023, 10.-12.10.2023, Helsinki, Finsko.

7. Charvatová Campbell, A., Klapetek, P., Šlesinger, R., Wimmer, G., Witkovský, V., A new algorithm for function fitting: applications in AFM data analysis. Poster na medzinárodnej konferencii Nanoscale 2023, 10.-12.10.2023, Helsinki, Finsko.   
Poster na medzinárodnej konferencii NANOCON 2023, 18.-20.10.2023, Brno, ČR.   
8. Charvátová Campbell, A., Šlesinger, R., Klapetek, P., Wimmer, G., Witkovský, V., Buršíková, V., OEFPIL: A New Algorithm for Data Fitting in AFM. Poster na medzinárodnej konferencii NANOCON 2023, 18.-20.10.2023, Brno, ČR.   
   
**21.) 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: 3293 € |

*Dosiahnuté výsledky:*

1. Wimmer, G. jr., Wimmer, G., Algorithm for GUM-compliant uncertainty matrix in straight-line calibration, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 23-26 (ADN) (SCOPUS).   
   
2. Wimmer, G., Witkovský, V., Straight-line errors-in-variables calibration model versus linear regression model, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 19-22 (ADN) (SCOPUS).   
   
Prednáška na medzinárodnej konferencii ODAM 2023 v Olomouci

3. Wimmer, G., Witkovský V., Straight-Line Errors-in-Variables Calibration Model, ODAM - Olomoucian Days of Applied Mathematics 2023, June 12 – 14, (2023, Olomouc).   
   
Prednáška na medzinárodnej konferencii AMTCM v Sarajeve (online)

4. Wimmer, G.,Witkovský, V., Fišerová, E., Linearization Region in the Straight-Line Calibration, International Conference Advanced Mathematical and Computational Tools in Metrology and Testing 2023, 26-28 September, 2023, Sarajevo, Bosnia and Herzegovina.   
   
**22.) 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, G. jr., Wimmer, G., Algorithm for GUM-compliant uncertainty matrix in straight-line calibration, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 23-26 (ADN) (SCOPUS).   
   
2. Wimmer, G., Witkovský, V., Straight-line errors-in-variables calibration model versus linear regression model, MEASUREMENT 2023, Proceedings of the 14th International Conference on Measurement. - Bratislava : Institute of Measurement Science, SAS, (2023), 19-22 (ADN) (SCOPUS).   
   
Prednáška na medzinárodnej konferencii ODAM 2023 v Olomouci

3. Wimmer, G., Witkovský V., Straight-Line Errors-in-Variables Calibration Model, ODAM - Olomoucian Days of Applied Mathematics 2023, June 12 – 14, (2023, Olomouc).   
   
Prednáška na (medzinárodnej konferencii AMTCM v Sarajeve (online)

4. Wimmer, G.,Witkovský, V., Fišerová, E., Linearization Region in the Straight-Line Calibration, International Conference Advanced Mathematical and Computational Tools in Metrology and Testing 2023, 26-28 September, 2023, Sarajevo, Bosnia and Herzegovina.   
   
5. KELIH, Emmerich\*\* - MAČUTEK, Ján - KOŠČOVÁ, Michaela - BENKO, Vladimír. Nouns more similar to the nominative form are more frequent: a case study in Slovak. In Glottotheory : International Journal of Theoretical Linguistics, 2023, vol. 14, no. 1, p. 69-80.   
   
6. MAČUTEK, Ján - KOŠČOVÁ, Michaela - KELIH, Emmerich - ČECH, Radek. Frequency and morphological behaviour of nouns in Czech and Russian. In Bohemistyka, 2023, vol. 1, p. 109-117.   
   
7. MOTALOVÁ, Tereza\*\* - MAČUTEK, Ján - ČECH, Radek. Word Length in Chinese: The Menzerath-Altmann Law is Valid After All. In Journal of Quantitative Linguistics, 2023, vol. 30, no. 3-4, p. 304-321.   
   
**23.) Navrhovanie kvantových štruktúr vyššieho rádu** *(Designing quantum higher order structures)*

|  |  |
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| **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: 1430 € |

*Dosiahnuté výsledky:*   
   
   
**Programy: Štrukturálne fondy EÚ Zdravotníctvo**

**24.) InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF**

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| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.3.2022 / 30.11.2023 |
| **Evidenčné číslo projektu:** | NFP313011BWH2 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Trnavská univerzita v Trnave |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | Výskumná agentúra SR: 158970 € |

*Dosiahnuté výsledky:*

1. K. Čunderlíková: About the Lp space of intuitionistic fuzzy observables, Notes on Intuitionistic Fuzzy Sets, Volume 29, Number 2, 2023, pp 90-98, DOI: 10.7546/nifs.2023.29.2.90-98. link: https://www.researchgate.net/publication/372117505\_About\_the\_Lp\_space\_of\_intuitionistic\_fuzzy\_observables   
   
2. O. Krídlo, D. López-Rodríguez, L. Antoni, P. Eliaš, S. Krajči, M. Ojeda-Aciego: Connecting concept lattices with bonds induced by external information, Information Sciences 648 (2023), 12pp. DOI: 10.1016/j.ins.2023.119498.   
   
3. M. Hospodár, V. Olejár: The cut operation in subclasses of convex languages, Theoretical Computer Science 969 (2023), 20pp. DOI: 10.1016/j.tcs.2023.114050.   
   
4. M. Hospodár, J. Jirásek, G. Jirásková, J. Šebej: Operational Complexity: NFA-to-DFA Trade-Off, DCFS 2023, pp. 79–93. DOI: 10.1007/978-3-031-34326-1\_6.   
   
5. Z. Jiao, I. Jadlovská, T. Li: Combined effects of nonlinear diffusion and gradient-dependent flux limitation on a chemotaxis–haptotaxis model, Zeitschrift für angewandte Mathematik und Physik, Volume 75, article number 4, (2024), 19pp. DOI: 10.1007/s00033-023-02134-2.   
   
6. Z. Jiao, I. Jadlovská, T. Li: Finite-time blow-up and boundedness in a quasilinear attraction–repulsion chemotaxis system with nonlinear signal productions, Nonlinear Analysis: Real World Applications, Volume 77 (2024), 15pp. DOI: 10.1016/j.nonrwa.2023.104023.   
   
7. F.I. Agu, J. Mačutek, G. Szucs: A Simple Estimation of Parameters for Discrete Distributions from the Schröter Family, Statistika Statistics and Economy Journal, 103(2), 2023, pp 246-251. link: https://www.researchgate.net/publication/371634756   
   
8. O. Šuch, R. Fabricius: Bridging performance gap between minimal and maximal SVM models, Transactions on Machine Learning Research (March/2023), 15pp. link: https://openreview.net/forum?id=SM1BkjGePI

9. R. Fabricius, O. Šuch, P. Tarábek: Deep Neural Network Ensembles Using Class-vs-Class Weighting, IEEE Access, Volume 11, 13pp. link: https://ieeexplore.ieee.org/document/10190625   
   
10. J. Palenčár, R. Palenčár, M. Chytil, G. Wimmer Jr, G. Wimmer, V. Witkovský: ISO Linear Calibration and Measurement Uncertainty of the Result Obtained With the Calibrated Instrument, MEASUREMENT SCIENCE REVIEW 22, (2022), No. 6, pp 293–307, DOI: 10.2478/msr-2022-0037.   
  
11. R. Halaš, R. Mesiar, J. Pócs: On the number of aggregation functions on finite chains asageneralization of Dedekind numbers, Fuzzy Sets and Systems 466 (2023), 108441.  
   
11. I. Odrobina: Clinical predictive modeling of heart failure: domain description, models' characteristics and literature review, Review, submitted to MDPI Diagnostics.   
   
   
**Programy: ŠPVV**

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

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| --- | --- |
| **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**

**26.) Využitie konceptu digitálneho dvojčaťa v manažmente zdravotného stavu rizikových skupín tehotných žien**

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| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.6.2022 / 31.12.2023 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*

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

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| **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:*   
   
   
 ***Príloha A-3***

**Publikačná činnosť organizácie**

*Príloha je generovaná z ARL.*

**AAB Vedecké monografie vydané v domácich vydavateľstvách**

|  |  |
| --- | --- |
| AAB01 | 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) |

**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) |
| ADCA02 | BENSALEM, Abdelhamid\* - SALIM, Abdelkrim\* - BENCHOHRA, Mouffak\* - FEČKAN, Michal\*\*. Approximate Controllability of Neutral Functional Integro-Differential Equations with State-Dependent Delay and Non-Instantaneous Impulses. In Mathematics, 2023, vol. 11, no. 7, art. no. 1667. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math11071667> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA03 | BOHNER, Martin\*\* - EL-MORSHEDY, Hassan - GRACE, Said - JADLOVSKÁ, Irena. Oscillation of Second-Order Half-Linear Neutral Noncanonical Dynamic Equations. In Journal of Applied Analysis and Computation, 2023, vol.13, no. 5, p. 2646-2658. (2022: 1.1 - IF, Q3 - JCR, 0.39 - SJR, Q2 - SJR). ISSN 2156-907X. Dostupné na: <https://doi.org/10.11948/20220484> |
| ADCA04 | 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) |
| ADCA05 | 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> |
| ADCA06 | DILNA, Natália - FEČKAN, Michal - RONTÓ, András\*\*. Solvability of the symmetric nonlinear functional differential equations. In Mathematical Methods in the Applied Sciences, 2023, vol. 46, p. 18975-18984. (2022: 2.9 - IF, Q1 - JCR, 0.628 - SJR, Q1 - SJR). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.9603> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA07 | DILNA, Natália\*\* - LESHCHUK, Svitlana. D-stability of the model of the Stieltjes string. In Applicable Analysis, 2023, vol. 102, no. 18, p. 5157-5169. (2022: 1.1 - IF, Q3 - JCR, 0.535 - SJR, Q2 - SJR). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036811.2023.2168654> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA08 | DILNA, Natália. Unique Solvability of the Initial-Value Problem for Fractional Functional Differential Equations-Pantograph-Type Model. In Fractal and Fractional, 2023, vol. 7, no. 1, art. no. 65. (2022: 5.4 - IF, Q1 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract7010065> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA09 | DILNA, Natália. Precise Conditions on the Unique Solvability of the Linear Fractional Functional Differential Equations Related to the ς-Nonpositive Operators. In Fractal and Fractional, 2023, vol. 7, no. 10, art. nr. 720. (2022: 5.4 - IF, Q1 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract7100720> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA10 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. On EMV-algebras with square roots. In Journal of Mathematical Analysis and Applications, 2023, vol. 524, art. nr. 127113. (2022: 1.3 - IF, Q2 - JCR, 0.833 - SJR, Q1 - SJR). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2023.127113> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA11 | DVUREČENSKIJ, Anatolij. Representation of perfect and n-perfect pseudo effect algebras. In Fuzzy Sets and Systems, 2023, vol. 455, . p. 19-34. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2022.08.015> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA12 | DVUREČENSKIJ, Anatolij\*\*. g-States on unital weak pseudo EMV-algebras. In Soft Computing, 2023, vol. 27, no. 8, p. 4353-4368. (2022: 4.1 - IF, Q2 - JCR, 0.819 - SJR, Q2 - SJR). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-023-07850-5> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
| ADCA13 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. Some results on pseudo MV-algebras with square roots. In Fuzzy Sets and Systems, 2023, vol. 465, art. no. 108527. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108527> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA14 | FEČKAN, Michal - MARYNETS, Kateryna. Non-local fractional boundary value problems with applications to predator-prey models. In Electronic Journal of Differential Equations, 2023, vol. 2023, no. 58, p. 1-17. (2022: 0.7 - IF, Q3 - JCR, 0.412 - SJR, Q3 - SJR). ISSN 1072-6691. Dostupné na: <https://doi.org/10.58997/ejde.2023.58> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA15 | FEČKAN, Michal - MARYNETS, Kateryna\*\* - WANG, JinRong. Existence of solutions to the generalized periodic fractional boundary value problem. In Mathematical Methods in the Applied Sciences, 2023, vol. 46, no. 11, p. 11971-11982. (2022: 2.9 - IF, Q1 - JCR, 0.628 - SJR, Q1 - SJR). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.9097> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA16 | 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) |
| ADCA17 | FEČKAN, Michal - DANCA, Marius-F. Non-Periodicity of Complex Caputo Like Fractional Differences. In Fractal and Fractional, 2023, vol. 7, art. nr. 68. (2022: 5.4 - IF, Q1 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract7010068> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA18 | FERNANDEZ-PERALTA, Raquel\*\* - MASSANET, Sebastia - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MIR, Arnau. Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part II. In Fuzzy Sets and Systems, 2023, vol. 471, art. nr. 108675. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108675> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA19 | FERNANDEZ-PERALTA, Raquel\*\* - MASSANET, Sebastia - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MIR, Arnau. Determination of the continuous completions of conditionally cancellative pre-t-norms associated with the characterization of (S,N)-implications: Part I. In Fuzzy Sets and Systems, 2023, vol. 468, art. nr. 108614. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108614> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA20 | GUAN, Yi - FEČKAN, Michal - WANG, JinRong\*\*. The Ekman spiral for two types of eddy viscosities. In Applicable Analysis, 2023, vol. 102, no. 11, p. 2925-2938. (2022: 1.1 - IF, Q3 - JCR, 0.535 - SJR, Q2 - SJR). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036811.2022.2044026> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA21 | 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) |
| ADCA22 | 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) |
| ADCA23 | HEINOSAARI, Teiko - JENČOVÁ, Anna - PLÁVALA, Martin\*\*. Dispensing of quantum information beyond no-broadcasting theorem-is it possible to broadcast anything genuinely quantum? In Journal of Physics A: Mathematical and Theoretical, 2023, vol. 56, art. nr. 135301. (2022: 2.1 - IF, Q1 - JCR, 0.718 - SJR, Q2 - SJR). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/acbc5b> |
| ADCA24 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. Fréchet subspaces of minimal usco and minimal cusco maps. In Bulletin of the Belgian Mathematical Society, 2022, vol. 29, iss. 5, pp. 683-701. (2021: 0.633 - IF, Q4 - JCR, 0.358 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1370-1444. Dostupné na: <https://doi.org/10.36045/j.bbms.221005> (VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií. Topologické štruktúry a priestory funkcií : APVV-20-0045) |
| ADCA25 | HOSPODÁR, Michal\*\* - OLEJÁR, Viktor. Nondeterministic operational complexity in subregular languages. In Theoretical Computer Science, 2023, vol. 972, art. nr. 114075. (2022: 1.1 - IF, Q4 - JCR, 0.59 - SJR, Q2 - SJR). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2023.114075> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť) |
| ADCA26 | HOSPODÁR, Michal\*\* - OLEJÁR, Viktor. The cut operation in subclasses of convex languages. In Theoretical Computer Science, 2023, vol. 969, art. nr. 114050. (2022: 1.1 - IF, Q4 - JCR, 0.59 - SJR, Q2 - SJR). ISSN 0304-3975. Dostupné na: <https://doi.org/10.1016/j.tcs.2023.114050> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť) |
| ADCA27 | CHEN, Fei - FEČKAN, Michal - WANG, JinRong. Study on a Second-Order Ordinary Differential Equation for the Ocean Flow in Arctic Gyres. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, no. 2, art. nr. 77. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-023-00778-z> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA28 | JENČOVÁ, Anna\*\* - PULMANNOVÁ, Sylvia. Spectral order unit spaces and JB-algebras. In Journal of Mathematical Analysis and Applications, 2023, vol. 520, no. 2, art. nr. 126911. (2022: 1.3 - IF, Q2 - JCR, 0.833 - SJR, Q1 - SJR). ISSN 0022-247X. Dostupné na: <https://doi.org/10.1016/j.jmaa.2022.126911> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA29 | JENČOVÁ, Anna\*\* - PULMANNOVÁ, Sylvia. Spectrality in Convex Sequential Effect Algebras. In International Journal of Theoretical Physics, 2023, vol. 62, art. nr. 193. (2022: 1.4 - IF, Q3 - JCR, 0.356 - SJR, Q3 - SJR). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05431-8> (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA30 | JIN, Xianghua - FEČKAN, Michal - WANG, JinRong\*\*. Relative Controllability of Impulsive Linear Discrete Delay Systems. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, no. 4, art. no. 133. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-023-00831-x> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
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| ADCA32 | KOCHOL, Martin. Interpretations for the Tutte polynomials of morphisms of matroids. In Discrete Applied Mathematics, 2022, vol. 322, p. 210-216. (2021: 1.254 - IF, Q3 - JCR, 0.733 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0166-218X. Dostupné na: <https://doi.org/10.1016/j.dam2022.08.026> (VEGA 2/0042/22 : Chromatické problémy a polynómy) |
| ADCA33 | KRÍDLO, Ondrej\*\* - LOPEZ-RODRIGUEZ, Domingo - ANTONI, Lubomir - ELIAŠ, Peter - KRAJČI, Stanislav - OJEDA-ACIEGO, M. Connecting concept lattices with bonds induced by external information. In Information Sciences, 2023, vol. 648, art. nr. 119498. (2022: 8.1 - IF, Q1 - JCR, 2.285 - SJR, Q1 - SJR). ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2023.119498> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADCA34 | LI, Qixiang - FEČKAN, Michal - WANG, JinRong\*\*. On the estimation of wave heights for periodic water waves from velocity and pressure data. In Results in Physics, 2023, vol. 51, art. no. 106678. (2022: 5.3 - IF, Q1 - JCR, 0.719 - SJR, Q2 - SJR). ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2023.106678> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA35 | LI, Qixiang - FEČKAN, Michal - WANG, JinRong\*\*. Velocity field and pressure analysis of equatorial flows beneath solitary water waves. In Nonlinear Analysis: Real World Applications, 2023, vol. 69, art. no. 103754. (2022: 2 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR). ISSN 1468-1218. Dostupné na: <https://doi.org/10.1016/j.nonrwa.2022.103754> |
| ADCA36 | MA, Rui - FEČKAN, Michal\*\* - WANG, JinRong. Exponential Stability of Hopfield Neural Network Model with Non-Instantaneous Impulsive Effects. In Axioms, 2023, vol. 12, art. no. 115. (2022: 2 - IF, Q2 - JCR, 0.388 - SJR, Q3 - SJR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms12020115> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA37 | MEDVEĎ, Milan - POSPÍŠIL, Michal\*\* - BRESTOVANSKÁ, Eva. Nonlinear Integral Inequalities Involving Tempered Ψ-Hilfer Fractional Integral and Fractional Equations with Tempered Ψ-Caputo Fractional Derivative. In Fractal and Fractional, 2023, vol. 7, no. 8, art. nr. 611. (2022: 5.4 - IF, Q1 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract7080611> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA38 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\*. On the monotonicity of functions constructed via z-ordinal sum construction. In Fuzzy Sets and Systems, 2023, vol. 466, art. nr. 108471. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.01.006> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA39 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - KALAFUT, Juraj. Pseudo-uninorms with continuous Archimedean underlying functions. In Fuzzy Sets and Systems, 2023, vol. 471, art. nr. 108674. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108674> (VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA40 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\*. On the monotonicity of functions constructed via ordinal sum construction. In Fuzzy Sets and Systems, 2023, vol. 466, art. nr. 108473. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.01.008> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
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| ADCA42 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\*. A note on simplification of z-ordinal sum construction. In Fuzzy Sets and Systems, 2022, vol. 451, p. 3-15. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0165-0114. Dostupné na: <https://doi.org/10.16/j.fss.2022.05.011> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA43 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong. Stratified equatorial flows in the β-plane approximation with a free surface. In Monatshefte für Mathematik, 2023, vol. 200, no. 2, p. 315-334. (2022: 0.9 - IF, Q2 - JCR, 0.564 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-022-01685-2> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA44 | QIU, Wanzheng - FEČKAN, Michal - WANG, JinRong\*\*. Convergence analysis for iterative learning control of fractional-order nonlinear differential inclusion system. In Journal of The Franklin Institute, 2023, vol. 360, p. 5392-5410. (2022: 4.1 - IF, Q1 - JCR, 1.159 - SJR, Q1 - SJR). ISSN 0016-0032. Dostupné na: <https://doi.org/10.1016/j.jfranklin.2023.03.021> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA45 | SU, Yong\*\* - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MESIAR, Radko. Idempotent uninorms on a bounded chain. In Fuzzy Sets and Systems, 2023, vol. 471, art. nr. 108671. (2022: 3.9 - IF, Q1 - JCR, 1.212 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2023.108671> (VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADCA46 | 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) |
| ADCA47 | SUO, Leping - FEČKAN, Michal - WANG, JinRong. Existence of Periodic Solutions to Quaternion-Valued Impulsive Differential Equations. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, art. nr. 1. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-022-00693-9> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
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| ADCA49 | WANG, Xiaoming - ALZABUT, Jehad\*\* - KHUDDUSH, Mahammad - FEČKAN, Michal. Solvability of Iterative Classes of Nonlinear Elliptic Equations on an Exterior Domain. In Axioms, 2023, vol.12, no. 5, art. no. 474. (2022: 2 - IF, Q2 - JCR, 0.388 - SJR, Q3 - SJR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms12050474> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA50 | WEN, Qian - FEČKAN, Michal - WANG, JinRong. The Controllability for Second-Order Semilinear Impulsive Systems. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, no. 1, art. nr. 10. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-022-00717-4> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

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| ADCA51 | XIE, Jianqiang - ALI, Muhammad Aamir\*\* - BUDAK, Huseyin - FEČKAN, Michal - SITTHIWIRATTHAM, Thanin. Fractional Hermite–Hadamard inequality, Simpson's and Ostrowski's type inequalities for convex functions with respect to a pair of functions. In Rocky Mountain Journal of Mathematics, 2023, vol. 53, no. 2, pp. 611-628. (2022: 0.8 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR). ISSN 0035-7596. Dostupné na: <https://doi.org/10.1216/rmj.2023.53.611> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA52 | YANG, Maosong - FEČKAN, Michal - WANG, JinRong\*\*. Relative Controllability for Delayed Linear Discrete System with Second-Order Differences. In Qualitative Theory of Dynamical Systems, 2022, vol. 21, no. 4, art. no. 113. (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/s12346-022-00645-3> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA53 | YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Atmospheric Ekman-type solutions with some eddy viscosities in ellipsoidal coordinates. In Applicable Analysis, 2023, vol. 102, no. 18, p. 4929-4942. (2022: 1.1 - IF, Q3 - JCR, 0.535 - SJR, Q2 - SJR). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036811.2022.2147068> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA54 | YANG, Taoyu - FEČKAN, Michal - WANG, JinRong. On some azimuthal equatorial flows. In Monatshefte für Mathematik, 2023, vol. 200, p. 955-970. (2022: 0.9 - IF, Q2 - JCR, 0.564 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-022-01728-8> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA55 | ZHANG, WenLin - FEČKAN, Michal - WANG, JinRong. Multiple Solutions for an Elliptic Equation from the Antarctic Circumpolar Current. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, no. 2, art. nr. 45. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-023-00751-w> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA56 | ZOU, Yuqun - FEČKAN, Michal - WANG, JinRong. Hyers–Ulam–Rassias stability of linear recurrence over the quaternion skew yield. In Rocky Mountain Journal of Mathematics, 2023, vol. 53, no. 2, p. 661-670. (2022: 0.8 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR). ISSN 0035-7596. Dostupné na: <https://doi.org/10.1216/rmj.2023.53.661> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA57 | 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) |

**ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných**

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| ADDA01 | 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) |

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| ADDA02 | KUČERA, Ľ.\*\* - GAJDOŠÍK, T. - GAJDÁČ, I. - POMPÁŠ, L. - SMETANKA, L. - WITKOVSKÝ, Viktor - WIMMER, Gejza. Design and construction of metrological equipment for torque sensors with a carbon-based measuring arm. In Measurement Science Review, 2023, vol. 23, no. 4, p. 163-167. (2022: 0.9 - IF, Q4 - JCR, 0.306 - SJR, Q3 - SJR). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2023-0021> (APVV-18-0066 : Development of innovative methods for primary metrology torque forces by force effects of the conventional standards) |

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

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| ADEB01 | ANGELOVA, Nora - ČUNDERLÍKOVÁ, Katarína - SZMIDT, Eulalia - ATANASSOV, Krassimir T. Intuitionistic fuzzy interpretations of formula (A → B) → ((¬A → B) → B). In Notes on Intuitionistic Fuzzy Sets, 2022, vol. 28, no. 4, p. 428-435. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.28.4.428-435> |
| ADEB02 | ČUNDERLÍKOVÁ, Katarína. Intuitionistic fuzzy probability and convergence of intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2022, vol. 28, no. 4, p. 381-396. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2022.28.4.381-396> |
| ADEB03 | ČUNDERLÍKOVÁ, Katarína. About the Lp space of intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2023, vol. 29, no. 2, p. 90-98. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2023.29.2.90-98> (VEGA 2/0122/23 : Viachodnotové modely neurčitosti) |
| ADEB04 | DILNA, Natália - FEČKAN, Michal - WANG, JinRong. Note on quaternion linear dynamical systems. In Nonlinear Oscillations, 2023, vol. 26, no. 1, p. 22-32, art. nr. 1413. ISSN 1562-3076. Dostupné na internete: <https://imath.kiev.ua/~nosc/web/show_article.php?article_id=1413&lang=en> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADEB05 | ŠUCH, Ondrej - FABRICIUS, René. Bridging performance gap between minimal and maximal SVM models. In Transactions on Machine Learning Research, 2023, march, p. 1-15. ISSN 2835-8856. Dostupné na internete: [https://openreview.net/forum?id=SM1BkjGePI](https://openreview.net/forum?id=sm1bkjgepi) |

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

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| ADMA01 | AGU, Friday I. - MAČUTEK, Ján - SZÜCS, Gábor. A Simple Estimation of Parameters for Discrete Distributions from the Schröter Family. In Statistika, 2023, roč. 103, č. 2, s. 246-251. (2022: 0.2 - IF, 0.179 - SJR, Q4 - SJR). ISSN 0322-788X. Dostupné na: <https://doi.org/10.54694/stat.2022.42> (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) |
| ADMA02 | ALI, M. A. - FEČKAN, Michal\*\* - MATEEN, A. Study of quantum Ostrowski-type inequalities for differentiable convex functions. In Ukrainian Mathematical Journal, 2023, vol. 75, no. 1, p. 5-28. (2022: 0.5 - IF, Q4 - JCR, 0.366 - SJR, Q3 - SJR). ISSN 0041-5995. Dostupné na: <https://doi.org/10.1007/s11253-023-02182-x> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA03 | ALI, Muhammad Aamir - SOONTHARANON, Jarunee - BUDAK, Huseyin - SITTHIWIRATTHAM, Thanin - FEČKAN, Michal\*\*. Fractional Hermite-Hadamard inequality and error estimates for Simpson';s formula through convexity with respect to a pair of functions. In Miskolc Mathematical Notes, 2023, vol. 24, no. 2, p. 553-568. (2022: 0.9 - IF, Q2 - JCR, 0.396 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2023.4214](https://doi.org/10.18514/mmn.2023.4214) |
| ADMA04 | ALI, Muhammad Aamir - BUDAK, Huseyin - FEČKAN, Michal - PATANARAPEELERT, Nichaphat - SITTHIWIRATTHAM, Thanin. On some Newton´s type inequalities for differentiable convex functions via Riemann-Liouville fractional integrals. In Filomat, 2023, vol. 37, no. 11, p. 3427-3441. (2022: 0.8 - IF, Q3 - JCR, 0.368 - SJR, Q3 - SJR). ISSN 0354-5180. Dostupné na: [https://doi.org/10.2298/FIL2311427A](https://doi.org/10.2298/fil2311427a) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA05 | ATTIA, Emad R. - AL-MASARER, Ohoud - JADLOVSKÁ, Irena\*\*. On the distribution of adjacent zeros of solutions to first-order neutral differential equations. In Turkish Journal of Mathematics, 2023, vol. 47, no. 1, p. 195-212. (2022: 1 - IF, Q2 - JCR, 0.443 - SJR, Q2 - SJR). ISSN 1300-0098. Dostupné na: <https://doi.org/10.55730/1300-0098.3354> |
| ADMA06 | BEDDANI, Moustafa - BEDDANI, Hamid - FEČKAN, Michal\*\*. Qualitative study for impulsive pantograph fractional integro-differential equation via ψ-Hilfer derivative. In Miskolc Mathematical Notes, 2023, vol. 24, no. 2, p. 635-651. (2022: 0.9 - IF, Q2 - JCR, 0.396 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2023.4032](https://doi.org/10.18514/mmn.2023.4032) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA07 | DILNA, Natália. General exact solvability conditions for the initial value problems for linear fractional functional differential equations. In Archivum Mathematicum, 2023, vol. 59, p. 11-19. (2022: 0.6 - IF, 0.218 - SJR, Q4 - SJR). ISSN 0044-8753. Dostupné na: [https://doi.org/10.5817/AM2023-1-11](https://doi.org/10.5817/am2023-1-11) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA08 | 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> |
| 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) |
| ADMA10 | HOLÁ, Ľubica\*\* - HOLÝ, Dušan. Minimal usco maps and cardinal invariants of the topology of uniform convergence on compacta. In Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A, 2022, vol. 116, art. no. 27. (2021: 2.276 - IF, Q1 - JCR, 1.055 - SJR, Q1 - SJR). ISSN 1578-7303. Dostupné na: <https://doi.org/10.1007/s13398-021-01147-8> |
| ADMA11 | 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) |
| ADMA12 | 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) |
| ADMA13 | LI, Mengmeng - FEČKAN, Michal - WANG, JinRong. Finite time stability and relative controllability of second order linear differential systems with pure delay. In Applications of Mathematics, 2023, vol. 68, no. 3, p. 305-327. (2022: 0.7 - IF, Q4 - JCR, 0.242 - SJR, Q4 - SJR). ISSN 0862-7940. Dostupné na: [https://doi.org/10.21136/AM.2022.0249-21](https://doi.org/10.21136/am.2022.0249-21) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA14 | 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) |
| ADMA15 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong. On Some Azimuthally Propagating Flows with Stratification. In Qualitative Theory of Dynamical Systems, 2023, vol. 22, art. no. 85. (2022: 1.4 - IF, Q1 - JCR, 0.411 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-023-00783-2> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA16 | MOTALOVÁ, Tereza\*\* - MAČUTEK, Ján - ČECH, Radek. Word Length in Chinese: The Menzerath-Altmann Law is Valid After All. In Journal of Quantitative Linguistics, 2023, vol. 30, no. 3-4, p. 304-321. (2022: 1.4 - IF, Q2 - JCR, 0.596 - SJR, Q1 - SJR). ISSN 0929-6174. Dostupné na: <https://doi.org/10.1080/09296174.2023.2259937> (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing) |
| ADMA17 | SU, Y.\*\* - WANG, Z. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MESIAR, Radko. Characterizing three classes of idempotent uninorms on a bounded lattice. In Iranian Journal of Fuzzy Systems, 2023, vol. 20, no. 5, p. 109-120. (2022: 1.8 - IF, Q1 - JCR, 0.385 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2023.7685](https://doi.org/10.22111/ijfs.2023.7685) (VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy) |
| ADMA18 | SU, Yong - ZONG, Wenwen - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Constructing uninorms via ordinal sums in the sense of A. H. Clifford. In Semigroup forum, 2022, vol. 105, p. 328-344. (2021: 0.717 - IF, Q3 - JCR, 0.609 - SJR, Q2 - SJR). ISSN 0037-1912. Dostupné na: <https://doi.org/10.1007/s00233-022-10287-1> |
| ADMA19 | VINODKUMAR, Arumugam\*\* - HARINIE, Sivakumar - FEČKAN, Michal - ALZABUT, Jehad. Some stability results on non-linear singular differential systems with random impulsive moments. In An International Journal of Optimization and Control: Theories and Applications, 2023, vol. 13, no. 2, p. 259-268. (2022: 1.6 - IF, 0.352 - SJR, Q3 - SJR). ISSN 2146-0957. Dostupné na: <https://doi.org/10.11121/ijocta.2023.1327> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMA20 | YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Explicit solutions of atmospheric Ekman flows for some eddy viscosities in ellipsoidal coordinates. In Dynamics of Partial Differential Equations, 2023, vol. 20, no. 2, p. 99-115. (2022: 1.3 - IF, Q3 - JCR, 0.819 - SJR, Q1 - SJR). ISSN 1548-159X. Dostupné na: [https://doi.org/10.4310/DPDE.2023.v20.n2.a1](https://doi.org/10.4310/dpde.2023.v20.n2.a1) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

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

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| ADMB01 | ANTONI, Ľubomír - ELIAŠ, Peter - HORVÁTH, Tomáš - KRAJČI, Stanislav - KRÍDLO, Ondrej - TOROK, Csaba. Squared Symmetric Formal Contexts and Their Connections with Correlation Matrices. In Graph-Based Representation and Reasoning. Lecture Notes in Computer Science. - Heidelberg : Springer, 2023, vol. 14133, p. 19-27. (2022: 0.32 - SJR, Q3 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-40960-8_2> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADMB02 | 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) |
| ADMB03 | ČUNDERLÍKOVÁ, Katarína. Convergence of Functions of Several Intuitionistic Fuzzy Observables. In Lecture notes in networks and systems : Uncertainty and Imprecision in Decision Making and Decision Support - New Advances, Challenges, and Perspectives. - Cham : Springer, 2023, vol. 739, pp. 39-48. (2022: 0.151 - SJR, Q4 - SJR). ISSN 2367-3370. Dostupné na: <https://doi.org/10.1007/978-3-031-45069-3_5> (IWIFSGN 2022, BOS/SOR 2022) |
| ADMB04 | HOSPODÁR, Michal - JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina\*\* - ŠEBEJ, Juraj. Operational Complexity: NFA-to-DFA Trade-Off. In Lecture Notes in Computer Science : Descriptional Complexity of Formal Systems DCFS 2023. - Heidelberg : Springer, 2023, vol. 13918, pp. 79-93. (2022: 0.32 - SJR, Q3 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-34326-1_6> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť) |
| ADMB05 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina\*\*. Operational Complexity in Subregular Classes. In Lecture Notes in Computer Science : Implementation and Application of Automata CIAA 2023. - Heidelberg : Springer, 2023, vol. 14151, pp. 153-165. (2022: 0.32 - SJR, Q3 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-40247-0_11> (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť) |
| ADMB06 | JENČA, Gejza - LINDENHOVIUS, Bert. Quantum Suplattices. In Electronic Proceedings in Theoretical Computer Science : Proceedings of the Twentieth International Conference on Quantum Physics and Logic, 2023, vol. 384, pp. 58-74. (2022: 0.349 - SJR). ISSN 2075-2180. Dostupné na: [https://doi.org/10.4204/EPTCS.384.4](https://doi.org/10.4204/eptcs.384.4) (VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti. VEGA 1/0036/23 : Pokročilé prístupy k agregácii dát a ich aplikácie. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. Twentieth International Conference on Quantum Physics and Logic) |
| ADMB07 | JIRÁSKOVÁ, Galina. Operations on Boolean and Alternating Finite Automata. In Electronic Proceedings in Theoretical Computer Science : Proceedings of the 16th International Conference on Automata and Formal Languages, 2023, vol. 386, pp. 3-10. (2022: 0.349 - SJR). ISSN 2075-2180. Dostupné na: [https://doi.org/10.4204/EPTCS.386.1](https://doi.org/10.4204/eptcs.386.1) (VEGA 2/0096/23 : Automaty a formálne jazyky: popisná a výpočtová zložitosť. 16th International Conference on Automata and Formal Languages) |

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| ADMB08 | JONNALAGADDA, J. M. - ALZABUT, J.\*\* - FEČKAN, Michal. Existence and Stability of Solutions for Nonlinear Impulsive Nabla Fractional Boundary Value Problems of Order Less Than One. In Discontinuity, Nonlinearity, and Complexity, 2023, vol. 12, no. 2, p. 231-244. (2022: 0.162 - SJR, Q4 - SJR). ISSN 2164-6376. Dostupné na: [https://doi.org/10.5890/DNC.2023.06.001](https://doi.org/10.5890/dnc.2023.06.001) (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADMB09 | KELIH, Emmerich\*\* - MAČUTEK, Ján - KOŠČOVÁ, Michaela - BENKO, Vladimír. Nouns more similar to the nominative form are more frequent: a case study in Slovak. In Glottotheory : International Journal of Theoretical Linguistics, 2023, vol. 14, no. 1, p. 69-80. (2022: 0.124 - SJR, Q3 - SJR). ISSN 1337-7892. Dostupné na: <https://doi.org/10.1515/glot-2023-2002> (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. VEGA č. 2/0016/21 : Slovník súčasného slovenského jazyka - 7. etapa (koncipovanie a redigovanie slovníkových hesiel a s tým spojený lexikologicko-lexikografický výskum)) |
| ADMB10 | MAČUTEK, Ján - KOŠČOVÁ, Michaela - KELIH, Emmerich - ČECH, Radek. Frequency and morphological behaviour of nouns in Czech and Russian. In Bohemistyka, 2023, vol. 1, p. 109-117. (2022: 0.19 - SJR, Q2 - SJR). ISSN 1642-9893. Dostupné na: <https://doi.org/10.14746/bo.2023.1.7> (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) |
| ADMB11 | MAČUTEK, Ján - KELIH, Emmerich. Free or not so free? On stress position in Russian, Slovene, and Ukrainian. In Quantitative Approaches to Universality and Individuality in Language. 1. vydanie. - Berlin, Germany : de Gruyter, 2023, p. 89-100. ISBN 978-3-11-062808-1. Dostupné na: <https://doi.org/10.1515/9783110763560-008> (VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing) |
| ADMB12 | OKŠA, Gabriel\*\* - BEČKA, Martin. On Relative Accuracy of the One-Sided Block-Jacobi SVD Algorithm. In Lecture Notes in Computer Science : Parallel Processing and Applied Mathematics: Part I (Revised Selected Papers). - Heidelberg : Springer, 2023, vol. 13826, pp. 464-475. (2022: 0.32 - SJR, Q3 - SJR). ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-30442-2_35> (International Conference on Parallel Processing and Applied Mathematics) |

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

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| ADNA01 | 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) |
| ADNA02 | BABAJANOV, Bazar - FEČKAN, Michal\*\* - BABADJANOVA, Aygul. On the Differential-Difference Sine-Gordon Equation with an Integral Type Source. In Mathematica Slovaca, 2023, vol. 73, no. 6, s. 1499-1510. (2022: 1.6 - IF, Q1 - JCR, 0.418 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2023-0108> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |

**ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

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| ADNB01 | WIMMER, Gejza\*\* - WITKOVSKÝ, Viktor. Straight-line errors-in-variables calibration model versus linear regression model. In Proceedings of the 14th International Conference on Measurement. 1. vyd. - Bratislava : Institute of Measurement Science, SAS, 2023, 2023, p. 19-22. ISBN 978-80-972629-7-6. Dostupné na: [https://doi.org/10.23919/MEASUREMENT59122.2023.10164599](https://doi.org/10.23919/measurement59122.2023.10164599) (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. 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) |
| ADNB02 | WIMMER, Gejza, ml.\*\* - WIMMER, Gejza. Algorithm for gum-compliant uncertainty matrix in straight-line calibration. In Proceedings of the 14th International Conference on Measurement. 1. vyd. - Bratislava : Institute of Measurement Science, SAS, 2023, 2023, p. 23-26. ISBN 978-80-972629-7-6. Dostupné na: [https://doi.org/10.23919/MEASUREMENT59122.2023.10164309](https://doi.org/10.23919/measurement59122.2023.10164309) (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing) |

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

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| AECA01 | HOLÁ, Ľubica\*\* - HOLÝ, Dušan - NOVOTNÝ, Branislav. Spaces of Minimal Usco and Minimal Cusco Maps as Fréchet Topological Vector Spaces : Chapter 1. In Advances in Topology and Their Interdisciplinary Applications. - Singapore : Springer Nature, 2023, 2023, p. 1-18. ISBN 978-981-99-0150-0. Dostupné na: <https://doi.org/10.1007/978-981-99-0151-7_1> (Topologické štruktúry a priestory funkcií : APVV-20-0045. VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií) |

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

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| AEDA01 | HALUŠKA, Ján. Three Principles of the European 12-TET System Applied to Organs of the Constant Mensure. In Nové trendy akustického spektra : Vedecký recenzovaný zborník. - Zvolen : Technická univerzita vo Zvolene, 2023, s. 69-76. ISBN 978-80-228-3374-5. Dostupné na internete: <https://acoustics.sk/new-trends-of-acoustic-spectrum/> |

**AFG Abstrakty príspevkov zo zahraničných konferencií**

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| AFG01 | ČUNDERLÍKOVÁ, Katarína. A note about almost uniformly convergence and a variation on the Egorov´s theorem. In ISFS 2023 International Symposium on Fuzzy Sets : Abstracts.Uncertainty Modelling. - Rzeszow, Poland : University of Rzeszow, 2023, p. 33-34. ISBN 978-83-8277-077-3. (VEGA 2/0122/23 : Viachodnotové modely neurčitosti. International Symposium on Fuzzy Sets ISFS 2023 : Uncertainty Modelling) |
| AFG02 | KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin. Perfect-matching covers of cubic graphs with colouring defect 3. In Proceedings of the 12th European Conference on Combinatorics, Graph Theory and Applications. - Prague, Czech Republic : Masaryk University Press, 2023, p. 639-646. ISBN 978-80-280-0344-9. ISSN 2788-3116. Dostupné na: [https://doi.org/10.5817/CZ.MUNI.EUROCOMB23-088](https://doi.org/10.5817/cz.muni.eurocomb23-088) (APVV-19-0308 : Výnimočné štruktúry v diskrétnej matematike. VEGA 2/0078/20 : Grafové invarianty, symetrie a ohodnotenia. EUROCOMB´23 : 12th European Conference on Combinatorics, Graph Theory and Applications) |

**FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)**

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| FAI01 | Globálne existenciálne riziká 2022 : recenzovaný zborník vedeckých prác = Global existential risks ´2022: proceedings of scientific works. Ed. Miroslav Rusko, Ivan Klinec, Karol Nemoga ; rec. Lucia Bednárová, Jozef Mihok, Karol Nemoga, Dana Procházková. 1. vyd. Bratislava : Slovenská spoločnosť pre životné prostredie, 2022. 125 s. ESE, 60. Dostupné na internete: <https://www.sszp.eu/?p=3381>. ISBN 978-80-973844-6-3 (Globálne existenciálne riziká 2022 : medzinárodná vedecká konferencia) |

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

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| GHG01 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Straight-line errors-in-variables calibration model. In ODAM 2023 - Olomoucian Days of Applied Mathematics : Book of Abstracts. - Olomouc, Czech Republic : Department of Mathematical Analysis and Applications of Mathematics, Faculty of Science, Palacký University Olomouc, 2023, p. 78. Dostupné na internete: [https://odam.upol.cz/soubory/ODAM\_2023\_Book\_of\_abstracts.pdf](https://odam.upol.cz/soubory/odam_2023_book_of_abstracts.pdf) |

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

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| AEC03 | SHANNON, A. - RIEČAN, Beloslav - OROZOVA, D. - SOTIROVA, E. - ATANASSOV, K. - KRAWCZAK, M. - MELO-PEDRO, P. - PARVATHI, R. - KIM, T. Generalized net model of the process of selection and usage of an intelligent e-learning system. In 2012 6th IEEE International Conference Intelligent systems: IS 2012, Sofia, Bulgaria, 6-8 September, 2012. - Piscataway : IEEE, 2012, p. 233-236. ISBN 978-1-4673-2276-8. |

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*1. [1.1] WANG, Y. - EYSINK, T.H.S. - QU, Z.L. - YANG, Z.J. - SHAN, H.M. - ZHANG, N. - ZHANG, H. - WANG, Y.N. Interactive Response System to Promote Active Learning in Intelligent Learning Environments. In JOURNAL OF EDUCATIONAL COMPUTING RESEARCH. ISSN 0735-6331, DEC 2022, vol. 60, no. 7, p. 1867-1891. Dostupné na:* [*https://doi.org/10.1177/07356331221082191.,*](https://doi.org/10.1177/07356331221082191.,) *Registrované v: WOS*

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

|  |  |
| --- | --- |
| AECA01 | BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Reduction of concepts from generalized one-sided concept lattice based on subsets quality measure. In New research in multimedia and internet systems. - Springer International Publishing, 2015, s. 101-111. ISBN 978-3-319-10382-2. ISSN 2194-5357. |

Citácie:

*1. [1.1] RAVAL, K.R. - GOYANI, M.M. A survey on event detection based video summarization for cricket. In MULTIMEDIA TOOLS AND APPLICATIONS. ISSN 1380-7501, AUG 2022, vol. 81, no. 20, p. 29253-29281. Dostupné na:* [*https://doi.org/10.1007/s11042-022-12834-y.,*](https://doi.org/10.1007/s11042-022-12834-y.,) *Registrované v: WOS*

|  |  |
| --- | --- |
| AECA02 | WILSON, Andrew - MAČUTEK, Ján. A Classification of the Celtic Languages Based on Grapheme Frequencies. In Words and Numbers : In Memory of Peter Grzybek (1957-2019). - Ludenscheid, Germany : RAM-Verlag, 2020, p. 53-68. ISBN 978-3-942303-89-7. |

Citácie:

*1. [1.2] KELIH, Emmerich - ZÖRNIG, Peter. Phoneme Frequencies in slovene (Text vs. Dictionary). In Slovenski Jezik, 2022-01-01, 14, pp. 64-95. ISSN 14082616. Dostupné na:* [*https://doi.org/10.3986/sjsls.14.1.03.,*](https://doi.org/10.3986/sjsls.14.1.03.,) *Registrované v: SCOPUS*

**\*AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

|  |  |
| --- | --- |
| AEE01 | 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] BENG, T.K. - RODRIGUEZ, M.J. - BORG, C. Stereocontrolled access to δ-lactone-fused-γ-lactams bearing angular benzylic quaternary stereocenters. In RSC ADVANCES. JUN 7 2022, vol. 12, no. 27, p. 17617-17620. Dostupné na: https://doi.org/10.1039/d2ra02167f., Registrované v: WOS*

*2. [1.1] BHAT, A.A. - TANDON, N. - TANDON, R. Pyrrolidine derivatives as antibacterial agents, current status and future prospects: a patent review. In PHARMACEUTICAL PATENT ANALYST. ISSN 2046-8954, NOV 2022, vol. 11, no. 6, p. 187-198. Dostupné na:* [*https://doi.org/10.4155/ppa-2022-0015.,*](https://doi.org/10.4155/ppa-2022-0015.,) *Registrované v: WOS*

*3. [1.1] HAMILTON, D.J. - BEEMSTERBOER, M. - CARTER, C.M. - ELSAYED, J. - HUIBERTS, R.E.M. - KLEIN, H.F. - O';BRIEN, P. - DE ESCH, I.J.P. - WIJTMANS, M. Puckering the Planar Landscape of Fragments: Design and Synthesis of a 3D Cyclobutane Fragment Library. In CHEMMEDCHEM. ISSN 1860-7179, MAY 4 2022, vol. 17, no. 9. Dostupné na: https://doi.org/10.1002/cmdc.202200113., Registrované v: WOS*

*4. [1.1] MATEEV, E. - GEORGIEVA, M. - ZLATKOV, A. Pyrrole as an Important Scaffold of Anticancer Drugs: Recent Advances. In JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES. JAN 4 2022, vol. 25, p. 24-40., Registrované v: WOS*

*5. [1.1] SINHA, S. - HAZARIKA, A. - JOHARI, S. - NEOG, B. - RAJKHOWA, S. - BISWAS, A. IMPDB: Indian Medicinal Phytochemical Database Curated for Drug Designing. In JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY. ISSN 2737-4165, SEP 2022, vol. 21, no. 06, p. 709-728. Dostupné na: https://doi.org/10.1142/S2737416522500302., Registrované v: WOS*

*6. [1.1] YIN, L.N. - GUAN, T. - CHENG, J. - PAN, D.C. - LU, J.Y. - HUANG, J.H. - WU, J.Q. - CHEN, X.L. - YOU, T.Y. - HUO, X.T. - HE, Y.T. - PANG, J.Y. - HU, Q.Z. Manipulations of phenylnorbornyl palladium species for multicomponent construction of a bridged polycyclic privileged scaffold. In COMMUNICATIONS CHEMISTRY. ISSN 2399-3669, OCT 29 2022, vol. 5, no. 1. Dostupné na: https://doi.org/10.1038/s42004-022-00759-4., Registrované v: WOS*

**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] 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. 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] WANG, Yaqin - CHEN, Heng. The Menzerath-Altmann law on the clause level in English texts. In LINGUISTICS VANGUARD, 2022, vol. 8, no. 1, pp. 331-346. ISSN 2199-174X. Dostupné na: https://doi.org/10.1515/lingvan-2022-0048., Registrované v: WOS*

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

|  |  |
| --- | --- |
| GII01 | ŽÁČIK, Tibor - MRAČKA, Igor - HAJOSSY, Rudolf - HYČKO, Marek. Reinforcement Learning in Gas Transport Control. In PSIG 2018. - Utah : Pipeline Simulation Interst Group, 2018, 2018. Dostupné na internete: [https://onepetro.org/PSIGAM/proceedings-abstract/PSIG18/All-PSIG18/PSIG-1806/2088](https://onepetro.org/psigam/proceedings-abstract/psig18/all-psig18/psig-1806/2088) (Annual Meeting) |

Citácie:

*1. [1.2] ALZAHRANI, Majed - ALOTAIBI, Bader - AMAN, Beshir. Novel Stuck Pipe Troubles Prediction Model Using Reinforcement Learning. In International Petroleum Technology Conference, IPTC 2022, 2022-01-01, pp. Dostupné na: https://doi.org/10.2523/IPTC-22151-MS., Registrované v: SCOPUS*

*2. [1.2] MOHAMED-ILIASSE, Mahraz - LOUBNA, Benabbou - ABDELAZIZ, Berrado. Machine Learning in Supply Chain Management: A Systematic Literature Review. In International Journal of Supply and Operations Management, 2022-11-01, 9, 4, pp. 398-416. ISSN 23831359. Dostupné na: https://doi.org/10.22034/ijsom.2021.109189.2279., Registrované v: SCOPUS*

***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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra matematickej analýzy a numerickej matematiky

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Nelineárna funkcionálna analýza

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. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Teória kategórií 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Analýza rozptylu

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z matematickej štatistiky

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z teórie pravdepodobnosti

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra 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: Štatistika 2

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra manažmentu

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: Dynamické systémy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

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: Algoritmy a dátové štruktúry

Počet hodín za semester: 48

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

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: Paralelné programovanie a distribuované systémy

Počet hodín za semester: 12

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Analýza rozptylu

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z matematickej štatistiky

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra 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, Katedra ekonómie a financií

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, Katedra ekonómie a financií

Mgr. Viktor Olejár

Názov semestr. predmetu: Klasické a kvantové výpočty

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav Informatiky

Mgr. Viktor Olejár

Názov semestr. predmetu: Programovanie, algoritmy, zložitosť A

Počet hodín za semester: 52

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, 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

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 | 7 |
| Bulharsko |  |  |  |  | Ján Mačutek | 5 |
| Česko |  |  |  |  | Anna Jenčová | 1 |
|  |  |  |  |  | Ján Karabáš | 6 |
|  |  |  |  |  | Ján Mačutek | 12 |
|  |  |  |  |  | Karol Nemoga | 4 |
| Grécko |  |  |  |  | Ján Mačutek | 5 |
| Japonsko |  |  |  |  | Anna Jenčová | 17 |
| Maďarsko |  |  |  |  | Anna Jenčová | 6 |
| Portugalsko |  |  |  |  | Viktor Olejár | 100 |
| Rakúsko | Michaela Koščová | 3 |  |  | Gabriel Okša | 4 |
|  | Ján Mačutek | 6 |  |  |  |  |
| **Počet vyslaní spolu** | **2** | **9** |  |  | **9** | **167** |

**(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** |
| Česko |  |  |  |  | Dominik Lachman | 1 |
|  |  |  |  |  | Michaela Hanušková | 4 |
|  |  |  |  |  | Michaela Nogolová | 4 |
|  |  |  |  |  | Michal Botur | 5 |
|  |  |  |  |  | Miroslav Kubát | 4 |
|  |  |  |  |  | Xinying Chen | 4 |
| Poľsko |  |  |  |  | Tomasz, Kowalski, | 1 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| Rakúsko | Emmerich Kelih | 2 |  |  |  |  |
| Taliansko |  |  |  |  | Antonio Di Nola | 3 |
|  |  |  |  |  | Gandolfo Vergottini | 90 |
| Ukrajina |  |  |  |  | Svitlana Leshchuk | 5 |
| **Počet prijatí spolu** | **1** | **2** |  |  | **10** | **121** |

**(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Bulharsko | ICIFS 2023 | Katarína Čunderlíková | 8 |
|  | NTADES 2023 | Natália Dilna | 7 |
| Česko | IWk-CSS 2023 | Ján Mačutek | 3 |
|  | ODAM 2023 | Friday Ikechukwu Agu | 3 |
|  |  | Ján Mačutek | 3 |
|  |  | Gejza Wimmer | 3 |
| Fínsko | IWOTA 2023 | Natália Dilna | 8 |
| Francúzsko | QPL 2023 | Albertus Lindenhovius | 6 |
| Grécko | ICTA 2023 | Ľubica Holá | 9 |
|  |  | Branislav Novotný | 9 |
| Irán | IWk-OAS 2023 | Omid Zahiri | 5 |
| Japonsko | ICIAM 2023 | Friday Ikechukwu Agu | 9 |
|  | MAC 2023 | Stefan Dobrev | 2 |
| Maďarsko | AFL 2023 | Galina Jirásková | 5 |
|  | QIMP 2023 | Anna Jenčová | 4 |
| Nemecko | DCFS 2023 | Galina Jirásková | 7 |
| Nórsko | MUNIN 2023 | Karol Nemoga | 5 |
| Poľsko | ISCORFT 2023 | Peter Eliaš | 7 |
|  |  | Ľubica Holá | 8 |
|  |  | Branislav Novotný | 8 |
|  | ISFS 2023 | Katarína Čunderlíková | 4 |
|  | IWIFSGN 2023 | Katarína Čunderlíková | 5 |
| Rakúsko | LINZ 2023 | Andrea Zemánková | 4 |
|  | QUTE 2023 | Viktor Olejár | 7 |
| Španielsko | CILC 2023 | Ján Mačutek | 5 |
|  | EUSFLAT 2023 | Andrea Zemánková | 8 |
|  | ILAS 2023 | Anna Jenčová | 7 |
| Švajčiarsko | QUALICO 2023 | Ján Mačutek | 5 |
| Turecko | CIAA 2023 | Michal Hospodár | 6 |
|  |  | Galina Jirásková | 6 |
| **Spolu** | **23** | **29** | **176** |

*Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd*   
Skratky použité v tabuľke C:

AFL 2023 - 16th International Conference on Automata and Formal Languages

CIAA 2023 - 27th International Conference on Implementation and Application of Automata

CILC 2023 - 14th International Conference on Corpus Linguistics

DCFS 2023 - 25th International Conference on Descriptional Complexity of Formal Systems

EUSFLAT 2023 - 13th Conference of the European Society for Fuzzy Logic and Technology jointly with the AGOP and FQAS conferences

ICIAM 2023 - 10th International Congress on Industrial and Applied Mathematics

ICIFS 2023 - 26th International Conference on Intuitionistic Fuzzy Sets

ICTA 2023 - 2023 International Conference on Topology and its Applications

ILAS 2023 - 25th Conference of the International Linear Algebra Society

ISCORFT 2023 - 37th International Summer Conference On Real Functions Theory

ISFS 2023 - International Symposium on Fuzzy Sets

IWIFSGN 2023 - 21st International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets

IWk-CSS 2023 - International workshop on corpus stylistics and stylometrics

IWk-OAS 2023 - International workshop on “Ordered Algebraic Structure”

IWOTA 2023 - 34th International Workshop on Operator Theory and is Applications

LINZ 2023 - 40th Linz Seminar on Fuzzy Set Theory

MAC 2023 - Moving and Computing workshop

MUNIN 2023 - 18th Munin Conference on Scholarly Publishing

NTADES 2023 - New Trends in the Applications of Differential Equations in Science

ODAM 2023 - Olomoucian Days of Applied Mathematics 2023

QIMP 2023 - Quantum Information Theory and Mathematical Physics 2023

QPL 2023 - 20th International Conference on Quantum Physics and Logic

QUALICO 2023 - 12th International Quantitative Linguistic Conference

QUTE 2023 - Quantum Technologies Summer school 2023 ***Príloha A-6***

**Vedecko-popularizačná činnosť pracovníkov organizácie**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| RNDr. Stefan Dobrev, PhD. |  | PB | Ako hľadať poklad keď máš obmedzenú pamäť? | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky na Slovensku — 6. – 12. 11. 2023) | 9.11.2023 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | A.Dvurečenskij, Nedožitá storočnica prof. RNDr. Jána Jakubíka, DrSc.– nestora slovenských matematikov 8.10.2023—24.11.2015, | https://www.sav.sk/?lang=sk&doc=services-news&source\_no=20&news\_no=11457 | 9.10.2023 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Slovenské povesti o celoslovenskom testovaní na COVID-19 | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky na Slovensku — 6. – 12. 11. 2023) | 9.11.2023 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ Hybe | 6.11.2023 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ J.D.Matejovie, Liptovský Hrádok | 10.11.2023 |
| RNDr. Emília Halušková, CSc. |  | IN | Týždeň vedy a techniky na našej škole (zmienka o podujatí) | https://zshybe.edupage.org/news/#1366 | 8.11.2023 |
| RNDr. Emília Halušková, CSc. | Mgr. Viktor Olejár, Mgr. Jana Valigurská | iné | stánok MÚ SAV | festival Víkend so SAV, Bratislava | 23.–24.6.2023 |
| RNDr. Galina Jirásková, CSc. |  | PB | Formálne jazyky a ich doplnky | Matematický piatok, Mendelovo gymnázium Opava, ČR | 2.6.2023 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Zenón a nekonečno | Filozofická fakulta UPJŠ, Košice | 28.11.2023 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Tajomstvá a čaro matematiky | ZŠ Bottova, J. Bottu 27, Trnava | 17.5.2023 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Potrebujeme ešte matematiku? | Námestie pred SND | 23. 6. 2023 |
| Mgr. Jana Valigurská |  | PB | Keď 1 +1 sa nerovná 2 | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky na Slovensku — 6. – 12. 11. 2023) | 9.11.2023 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Cesty do Santiaga (nematematická prednáška na matematickom podujatí) | LŠ Pytagoras/ Hronec (okres Brezno) | 1 |
| Mgr. Peter Mlynárčik, PhD. |  | iné | Matematický Alternatívny Krúžok (MAK) / iné | Gymnázium Futurum, Košice | 8 |

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| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| 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 2023**

**Domáce ocenenia**

**Ocenenia SAV**

**Nemoga Karol**

Pamätná mediala SAV k 70. výročiu založenia Slovenskej akadémie vied.

*Oceňovateľ: Predsedníctvo SAV*

**Zemánková Andrea**

Špičková publikácia SAV

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Ocenenie Predsedníctva SAV - Špičková publikácia SAV -v kategórii: publikácie vo vedeckých časopisoch s najvyšším impaktom podľa SJR*

**Iné domáce ocenenia**

**Medzinárodné ocenenia**

*Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.*