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

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

**Výročná správa o činnosti organizácie**

**za rok 2024**

**1. Základné údaje o organizácii**

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

Organizačné zložky:

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

Detašované pracoviská:

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

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

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

**Vedúci organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

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

Detašované pracoviská:

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

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

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

**Členovia Snemu SAV za organizačné zložky:**

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

**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

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

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

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

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

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

*M, Ž – muži, ženy*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2024

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

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

**2.2. Medzinárodné projekty**

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

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

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

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

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

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

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

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

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

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

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

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

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

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

**2.3.1. Výsledky na báze základného výskumu**

**Popis štruktúry špeciálnych nekomutatívnych asociatívnych funkcií**

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

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

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

**Referencie:**

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

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

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

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

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

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

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

**References:**

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

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

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

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

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

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

**Referencie:**

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

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

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

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

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

**References:**

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

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

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**O retraktových varietách algebier**

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

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

Dokázali sme, že

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

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

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

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

**Referencia**:

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

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

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**On retract varieties of algebras**

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

We have proven that

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

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

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

**Reference**:

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

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**2.3.2. Výsledky aplikačného typu**

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

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

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

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

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

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

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

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

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

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**Automatická klasifikácia textov založená na syntaktických funkciách**

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

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**Projekty:** VEGA 2/0096/21, APVV-21-0216, Operational Programme Integrated Infrastructure (OfPII) 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:** Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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**Automatic text classification based on syntactic functions**

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

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**Projects:** VEGA 2/0096/21, APVV-21-0216, 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:** Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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

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

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

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

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

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

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

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

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Projekt:** Ústavný projekt.

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

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

**Authors: I. Mračka, M. Hyčko, R. Hajossy, T. Žáčik (MI SAS)  
Project:** Institutional project.

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**2.3.3. Výsledky na báze medzinárodnej spolupráce**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**Kvantové Rényiho divergencie vo von Neumannových algebrách**

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

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

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**Quantum Rényi divergences in von Neumann algebras**

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

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

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

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

Konkrétne sme skúmali:

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

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

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

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

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

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

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

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

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

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

In particular, we investigated:

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

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

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

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

**References:**

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

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

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

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

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

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

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

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

Tabuľka 2g Ohlasy

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

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

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

**Účasť a vedenie seminárov**

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

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

**Vedúci:** J. Pócs

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

**Účasť:** P. Mlynárčik, V. Olejár

**Set-Valued Analysis**

**Vedúci:** Ľ. Holá

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

**Poznámka:** 5 konaní, 6 účastníkov.

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

**Vedúci:** G. Jirásková

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

**Účasť:** P. Mlynárčik

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

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

**Vedúci:** J. Šupina (PF UPJŠ)

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

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

**Seminár Fuzzy a neurčitosť na PF UPJŠ**

**Vedúci:** Ľ. Antoni (PF UPJŠ)

**Referáty:** P. Eliaš

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

**Vedúci:** T. Macko

**Referáty:** Macko (4x)

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

**Vedúci:** M. Ploščica (PF UPJŠ)

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

**Seminár z kvalitatívnej teórie diferenciálnych rovníc,**

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

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

**Referáty:** I. Jadlovská (2x)

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

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

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

**Účasť:** E. Halušková

**RCQI seminár**

**Vedúci:** M. Sedlák (FÚ SAV)

**Účasť:** A. Jenčová

**Seminár z kryptológie na FEI STU**

**Vedúci:** O. Grošek

**Účasť:** K. Nemoga, P. Sýs

**Categorical Quantum Mechanics**

**Vedúci:** G. Jenča (SvF STU)

**Referáty:** A. Jenčová

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

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

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

**Referáty:** N. Dilna

**Poznámky:** 50 konaní, 10 účastníkov

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

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

**Referáty:** J. Pócs

**Poznámky:** 20 konaní, 10 účastníkov

**2.6. Vyžiadané prednášky**

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

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

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

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

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

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

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

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

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

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**2.6.5. Prednášky na domácich vedeckých podujatiach**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**2.6.6. Prednášky na významných vedeckých inštitúciách**

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

**2.6.7. Ostatné prednášky a vývesky**

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

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

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

**a) na Slovensku**

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2024**

**a) na Slovensku**

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

**c) PCT**

**d) EP**

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

**2.7.3. Úžitkové vzory na Slovensku**

**a) prihlásené v roku 2024**

**b) udelené v roku 2024**

**2.7.4. Realizované vynálezy**

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

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

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

Tabuľka 2i Experti hodnotiaci národné projekty

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

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

Počet autorov hesiel: 0

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

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

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

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

Prehľad dosiahnutých výsledkov

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**3. Medzinárodná vedecká spolupráca**

**3.1. Medzinárodné vedecké podujatia**

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

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

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

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

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

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

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

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

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

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

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

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

RNDr. Katarína Čunderlíková, PhD.

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

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)

International Quantum Structure Association (funkcia: člen výboru)

Ing. Irena Jadlovská, PhD.

International Society of Difference Equations (funkcia: člen)

RNDr. Galina Jirásková, CSc.

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

doc. Mgr. Ján Mačutek, PhD.

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

RNDr. Alžbeta Michalíková, PhD.

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

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

prof. RNDr. Roman Nedela, DrSc.

Európska matematická spoločnosť (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

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

IACR International Association for Cryptology (funkcia: člen)

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

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

Mgr. Andrea Zemánková, DrSc.

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

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

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

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

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

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

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

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

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

Kto využíva výsledok: MO SR

Rok využívania od: 2024

Rok využívania do: trvá

Projekt:

Rok vytvorenia výsledku: 2024

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

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

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

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

Začiatok spolupráce: 2004

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

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

**5.1. Údaje o doktorandskom štúdiu**

Tabuľka 5a Počet doktorandov v roku 2024

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

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

**5.2. Zmena formy doktorandského štúdia**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Tabuľka 5h Účasť na pedagogickom procese

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

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

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

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

Tabuľka 5j Aktivity pracovníkov na VŠ

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

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

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

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

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

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

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

**6.1. Spoločné pracoviská organizácie**

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

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

**Oblasť spolupráce:** veda a výskum

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

**Začiatok spolupráce:** 2019

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

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

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

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

**Začiatok spolupráce:** 2000

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

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

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

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

**Začiatok spolupráce:** 1990

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

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

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

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

**Začiatok spolupráce:** 2001

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

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

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

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

**Začiatok spolupráce:** 2019

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

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

**Oblasť spolupráce:** výuka

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

**Začiatok spolupráce:** 2020

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

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

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

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

**Začiatok spolupráce:** 1999

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

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

**Oblasť spolupráce:** numerická analýza, algoritmy

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

**Začiatok spolupráce:** 2011

**Zhodnotenie:** pedagogická činnosť

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

**Oblasť spolupráce:** veda a výskum

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

**Začiatok spolupráce:** 2020

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

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

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

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

**Začiatok spolupráce:** 2002

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

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

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

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

**Začiatok spolupráce:** 2002

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

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

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

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

**Začiatok spolupráce:** 2019

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

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

**Oblasť spolupráce:** pedagogika a výskum

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

**Začiatok spolupráce:** 2002

**Zhodnotenie:** Prednášky a výchova študentov.

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

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

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

**Oblasť spolupráce:** projekt APVV

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

**Začiatok spolupráce:** 2022

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

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

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

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

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

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

**Agentúra:**

**číslo projektu:** 257/2021

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

**Koordinátor projektu:** Michaela Koščová

**Začiatok spolupráce:** 2021

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

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

**Agentúra:**

**číslo projektu:**

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

**Koordinátor projektu:**

**Začiatok spolupráce:** 2013

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

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

**7.1. Vedecko-popularizačná činnosť**

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

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

**7.2. Vedecko-organizačná činnosť**

Tabuľka 7b Vedecko-organizačná činnosť

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

**7.3. Účasť na výstavách**

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

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

**7.5. Členstvo v redakčných radách časopisov**

RNDr. Katarína Čunderlíková, PhD.

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

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

Indian Journal of Mathematics (funkcia: člen)

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

Mathematica Slovaca (funkcia: výkonný editor)

Military and Science (funkcia: člen redakčnej rady)

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

Soft Computing (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

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

prof. RNDr. Michal Fečkan, DrSc.

Differential Equations & Applications (funkcia: editor)

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

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

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

Mathematica Slovaca (funkcia: editor)

Mathematical Notes, Miskolc University (funkcia: editor)

doc. RNDr. Ján Haluška, CSc.

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

Tatra Mountains Mathematica Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)

Mathematica Slovaca (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

Ing. Irena Jadlovská, PhD.

Applied Mathematics in Science and Engineering (funkcia: editor)

Journal of Mathematics and Computer Science (funkcia: editor)

Mathematica Slovaca (funkcia: editor)

doc. Mgr. Tibor Macko, PhD.

Mathematica Slovaca (funkcia: editor)

doc. Mgr. Ján Mačutek, PhD.

Glottometrics (funkcia: hlavný redaktor)

Glottotheory (funkcia: člen redakčnej rady)

Journal of Language Modelling (funkcia: člen redakčnej rady)

Journal of Quantitative Linguistics (funkcia: člen redakčnej rady)

RNDr. Alžbeta Michalíková, PhD.

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

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

prof. RNDr. Roman Nedela, DrSc.

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

Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

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

Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. PaedDr. Martin Papčo, PhD.

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

RNDr. Jozef Pócs, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. RNDr. Sylvia Pulmannová, DrSc.

International Journal of Theoretical Physics (funkcia: člen)

Mathematica Slovaca (funkcia: vedúci redaktor)

Tatra Mountains Mathematical Publications (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Gejza Wimmer, DrSc.

Mathematica Slovaca (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

**7.6. Činnosť v domácich vedeckých spoločnostiach**

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (funkcia: člen)

RNDr. Katarína Čunderlíková, PhD.

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Humboldtov klub (funkcia: člen)

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

Učená spoločnosť SAV (funkcia: člen)

prof. RNDr. Michal Fečkan, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Emília Halušková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

Ing. Michal Hospodár, PhD.

Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Galina Jirásková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Martin Kochol, PhD., DSc.

Humboldtov klub na Slovensku (funkcia: člen)

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Mgr. Michaela Koščová, PhD.

Slovenská štatistická a demografická spoločnosť (funkcia: člen)

RNDr. Alžbeta Michalíková, PhD.

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

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Viktor Olejár

QSlovakia (funkcia: Koordinátor)

Mgr. Eva Plávalová, PhD.

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

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

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

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

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

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

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

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

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

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

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

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

**9. Aktivity v orgánoch SAV**

**9.1. Členstvo vo Výbore Snemu SAV**

doc. RNDr. Karol Nemoga, CSc.

- člen

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

**9.3. Členstvo v komisiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

- Komisia SAV pre ekonomické otázky (člen)

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

- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

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

**9.4. Členstvo v orgánoch VEGA**

Mgr. Martin Bečka, PhD.

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

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, DrSc.

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

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

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

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

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

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

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

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

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

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

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

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

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

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

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

**10.2.2. Výskum zameraný na rodovú problematiku**

Neprebieha žiadny výskum v tejto oblasti.

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

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

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

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

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

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

*Uveďte stručné, základné informácie k problematike.*

**Členovia SR:**

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

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

 doc. Ing. Gabriel Okša, CSc.

 RNDr. Jozef Pócs, PhD.

 RNDr. Tibor Žáčik, CSc.

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

*Uveďte stručné, základné informácie k problematike.*

**Členovia VR:**

 Mgr. Anna Jenčová, PhD. (predsedníčka)

 doc. RNDr. Ľubica Holá, DrSc.

 Mgr. Marek Hyčko, PhD. (podpredseda)

 prof. RNDr. Roman Nedela, DrSc.

 doc. RNDr. Sylvia Pulmannová, DrSc.

**externí pracovníci VR:**

 doc. RNDr. Viktor Witkovský, CSc.

 prof. RNDr. Pavol Zlatoš, CSc.

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

*Uveďte stručné, základné informácie k problematike.*

**Členovia DR:**

 Ing. Ivana Budínska, PhD. (predsedníčka)

 Ing. Romana Jurkiewiczová

 prof. RNDr. Martin Kalina, CSc.

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

*Uveďte stručné, základné informácie k problematike.*

V období roku 2024 nenastali žiadne organizačné zmeny.

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

*Uveďte stručné, základné informácie k problematike.*

V období roku 2024 nenastali žiadne zmeny.

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

**12.1. Knižničný fond**

Tabuľka 12a Knižničný fond

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

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

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

**12.2. Výpožičky a služby**

Tabuľka 12b Výpožičky a služby

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

**12.3. Používatelia**

Tabuľka 12c Používatelia

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

**12.4. Iné údaje**

Tabuľka 12d Iné údaje

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

**12.5. Iné informácie o knižničnej činnosti**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 V roku 2024 sme realizovali jednu návštevu člena nášho poradného panelu na ústave.

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

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

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

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

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

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

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

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

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

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

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

1. Zvýšenie počtu výstupov o

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

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

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

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

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

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

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

Podklady:

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

**15. Iné významné činnosti organizácie**

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

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

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

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

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

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

Adresa časopisu na stránkach spoločnosti Versita bola

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**o slobodnom prístupe k informáciám**

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

 zákona č. 43/1970 Zb.,

 zákona č. 92/1977 Zb.,

 zákona č. 7/1990 Zb.,

 zákona č. 291/1992 Zb.,

 zákona č. 11/1993 Z.z.,

 zákona č. 75/1995 Z.z.

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

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

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

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

**Organizačná štruktúra MÚ SAV:**

 Matematický ústav SAV, Štefánikova 49, 814 73 Bratislava

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

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

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

**Orgány MÚ SAV:**

 Vedecká rada MÚ SAV

 rada riaditeľa MÚ SAV.

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

**Financovanie MÚ SAV:**

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

Ďalšími zdrojmi financovania pracoviska sú

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

 príjmy z vlastnej činnosti

 prostriedky z medzinárodných programov výskumu a vývoja

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

**MÚ SAV je povinné zverejňovať aj**

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

 dátum prevodu alebo prechodu vlastníctva a právny titul

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

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

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

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

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

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

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

(3) Informácia môže byť sprístupnená

a. ústne,

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

c. odkopírovaním informácií na technický nosič dát,

d. sprístupnením kópií predlôh s požadovanými informáciami,

e. telefonicky,

f. faxom,

g. poštou,

h. e-mailom,

i. odkazom na už zverejnenú informáciu.

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

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

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

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

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

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

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

(7) Žiadosť o sprístupnenie informácie možno podať :

 ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava

 telefonicky na telefónnom čísle : 02 / 5751 0414

 faxom na faxové spojenie : 02 / 5249 7316

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

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

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

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

(3) Evidencia obsahuje predovšetkým :

 dátum podania žiadosti,

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

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

 opravný prostriedok (dátum podania a výsledok vybavenia).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 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 0,66,- EUR (20,- Sk).

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

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

 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

 ostatné interné smernice / na internetovej stránke už sú uverejnené /

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

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

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

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

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

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

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

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

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

Schválila vedecká rada organizácie SAV dňa 10. 2. 2025

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

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

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

Bratislava, 10. 2. 2025

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

**PRÍLOHY k časti A**

***Príloha A-1***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2024**

**Zoznam zamestnancov podľa štruktúry**

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

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

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

**Zoznam doktorandov**

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

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

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

**Zoznam emeritných vedeckých zamestnancov**

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

***Príloha A-2***

**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Domáce projekty**

**Programy: VEGA**

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

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

*Dosiahnuté výsledky:*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*Dosiahnuté výsledky:*

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

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

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

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

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

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

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

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

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

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

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

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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: 20395 € |

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

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

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

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

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

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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:*   
   
   
**Programy: SASPRO**

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

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

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

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

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

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

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

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

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

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

**Publikačná činnosť organizácie**

*Príloha je generovaná z ARL.*

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

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

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

|  |  |
| --- | --- |
| ADCA01 | AL-OUSHOUSH, Nizar Kh.\*\* - AZAR, Laith E. - AWWAD, Essam - KRNIC, Mario - SAIED, Ahmed I.. Some new dynamic inequalities for B-monotone functions with respect to time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art. nr. 122. (2023: 1.5 - IF, Q1 - JCR, 0.448 - SJR, Q2 - SJR). ISSN 1029-242X. Dostupné na: <https://doi.org/10.1186/s13660-024-03202-5> |
| ADCA02 | ALI, Muhammad Aamir - LIU, Wei\*\* - FURUICHI, Shigeru - FEČKAN, Michal\*\*. Improved Hermite-Hadamard Inequality Bounds for Riemann-Liouville Fractional Integrals via Jensen´s Inequality. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 547. (2023: 3.6 - IF, Q1 - JCR, 0.645 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract8090547> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA03 | ANTONI, Ľubomír\*\* - ELIAŠ, Peter - GUNIŠ, Ján - KOTLÁROVÁ, Dominika - KRAJČI, Stanislav - KRÍDLO, Ondrej - SOKOL, Pavol - ŠNAJDER, Ľubomír. Bimorphisms and attribute implications in heterogeneous formal contexts. In International Journal of Approximate Reasoning, 2024, vol. 172, art. nr. 109245. (2023: 3.2 - IF, Q2 - JCR, 0.877 - SJR, Q1 - SJR). ISSN 0888-613X. Dostupné na: <https://doi.org/10.1016/j.ijar.2024.109245> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií) |
| ADCA04 | AWWAD, Essam\*\* - SAIED, Ahmed I.. Some weighted dynamic inequalities of Hardy type with kernels on time scales nabla calculus. In Journal of Mathematical Inequalities, 2024, vol. 18, no. 2, p. 457-475. (2023: 1.1 - IF, Q1 - JCR, 0.426 - SJR, Q3 - SJR). ISSN 1846-579X. Dostupné na: <https://doi.org/10.7153/jmi-2024-18-25> |
| ADCA05 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations. In Journal of differential equations, 2024, vol. 400, p. 314-375. (2023: 2.4 - IF, Q1 - JCR, 2.046 - SJR, Q1 - SJR). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2024.04.022> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA06 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 27, p. 1-30. (2023: 1.1 - IF, Q1 - JCR, 0.478 - SJR, Q2 - SJR). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2024.1.27> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA07 | BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. On Existence of Heteroclinic Connections in Discontinuous Kurland-Levi Differential Equations with Slowly Varying Coefficients. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 16, art. nr. 2450208, 33 p. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127424502080](https://doi.org/10.1142/s0218127424502080) (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA08 | BATTELLI, Flaviano - FEČKAN, Michal. Periodic Solutions in Slowly Varying Discontinuous Differential Equations: A Non-Generic Case. In Journal of Dynamics and Differential Equations, 2024, vol. 36, pp. 463-496. (2023: 1.4 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-022-10155-0> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
| ADCA09 | BENEŠ, V. - SVÍTEK, Miroslav - MICHALÍKOVÁ, Alžbeta - MELICHERČÍK, M. Situation model of the transport, transport emissions and meteorological conditions. In Neural network world : international journal on non-standard computing and artificial intelligence, 2024, vol. 34, no. 1, p. 27-36. (2023: 0.7 - IF, Q4 - JCR, 0.251 - SJR, Q4 - SJR). ISSN 1210-0552. Dostupné na: [https://doi.org/10.14311/NNW.2024.34.002](https://doi.org/10.14311/nnw.2024.34.002) |
| ADCA10 | ČUNDERLÍKOVÁ, Katarína. On Another Type of Convergence for Intuitionistic Fuzzy Observables. In Mathematics, 2024, vol. 12, iss. 1, art. no. 127. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math12010127> (VEGA 2/0122/23 : Viachodnotové modely neurčitosti) |
| ADCA11 | DANCA, Marius-F.\*\* - FEČKAN, Michal. Memory Principle of the MATLAB Code for Lyapunov Exponents of Fractional-Order. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 12, art. nr. 2450156, p. 1-11. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: [https://doi.org/10.1142/S0218127424501566](https://doi.org/10.1142/s0218127424501566) (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA12 | DILNA, Natália\*\* - FEKETE, Gusztáv - LANGEROVÁ, Martina - TÓTH, Balázs. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Differential Equations with Deviating Arguments. In Mathematics, 2024, vol. 12, no. 21, art. nr. 3418. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math12213418> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
| ADCA13 | DOBREV, Stefan - NARAYANAN, Lata - OPATRNY, Jaroslav - PANKRATOV, Denis. Exploration of High-Dimensional Grids by Finite State Machines. In Algorithmica, 2024, vol. 86, no. 5, p. 1700-1729. (2023: 0.9 - IF, Q3 - JCR, 0.905 - SJR, Q1 - SJR). ISSN 0178-4617. Dostupné na: <https://doi.org/10.1007/s00453-024-01207-6> |
| ADCA14 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. MV-algebras and their corresponding Bézout domains. In Communications in Algebra, 2024, vol. 52, no. 12, p. 5165-5179. (2023: 0.6 - IF, Q3 - JCR, 0.619 - SJR, Q2 - SJR). ISSN 0092-7872. Dostupné na: <https://doi.org/10.1080/00927872.2024.2367165> (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
| ADCA15 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid - SHENAVAEI, M. - BORZOOEI, R.A.\*\*. n-roots on MV-algebras. In Fuzzy Sets and Systems, 2024, vol. 484, art. no. 108930. (2023: 3.2 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2024.108930> (APVV-20-0069 :  Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti) |
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| ADCA23 | CHARVÁTOVÁ CAMPBELL, A.\*\* - GERŠLOVÁ, Z. - ŠINDLÁŘ, V. - ŠLESINGER, R. - WIMMER, Gejza. New framework for nanoindentation curve fitting and measurement uncertainty estimation. In Precision Engineering : journal of the international societies for precision engineering and nanotechnology, 2024, vol. 85, p. 166-173. (2023: 3.5 - IF, Q1 - JCR, 0.902 - SJR, Q1 - SJR). ISSN 0141-6359. Dostupné na: <https://doi.org/10.1016/j.precisioneng.2023.10.001> |
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| ADCA43 | YANG, Maosong - FEČKAN, Michal - WANG, JinRong\*\*. Solution to delayed linear discrete system with constant coefficients and second-order differences and application to iterative learning control. In International Journal of Adaptive Control and Signal Processing, 2024, vol. 38, p. 677-695. (2023: 3.9 - IF, Q2 - JCR, 0.793 - SJR, Q2 - SJR). ISSN 0890-6327. Dostupné na: <https://doi.org/10.1002/acs.3722> (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov) |
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| ADCA46 | ZAKARYA, M. - ALNEMER, Ghada - SAIED, Ahmed I. - REZK, H. M.\*\*. Novel generalized inequalities involving a general Hardy operator with multiple variables and general kernels on time scales. In AIMS Mathematics, 2024, vol. 9, no. 8, p. 21414-21432. (2023: 1.8 - IF, Q1 - JCR, 0.456 - SJR, Q2 - SJR). ISSN 2473-6988. Dostupné na: <https://doi.org/10.3934/math.20241040> |
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**ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných**

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| ADCB01 | FEČKAN, Michal - LI, Shan - WANG, JinRong. Discontinuous differential equation for modelling the Antarctic Circumpolar Current. In COMMUNICATIONS IN ANALYSIS AND MECHANICS, 2024, vol. 16, iss. 4, p. 836-857. ISSN 2836-3310. Dostupné na: <https://doi.org/10.3934/cam.2024036> (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov) |
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**ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných**

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

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

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

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

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

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

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

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

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

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

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

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

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

**AFG Abstrakty príspevkov zo zahraničných konferencií**

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

**AFH Abstrakty príspevkov z domácich konferencií**

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

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

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

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

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

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

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

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

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*1. [1.1] TORRA, Vicenc. The transport problem for non-additive measures. In EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, 2023, vol. 311, no. 2, pp. 679-689. ISSN 0377-2217. Dostupné na:* [*https://doi.org/10.1016/j.ejor.2023.03.016*](https://doi.org/10.1016/j.ejor.2023.03.016)*, Registrované v: WOS*

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| AEC17 | ROSA, Alexander. On certain valuations of the vertices of a graph. In Theory of Graphs, International Symposium, ICC Rome. - Paris : Dunod-Gordon and Breach, 1967, s. 349-355. |

Citácie:

*1. [1.1] BOHNERT, Alan - BRANSON, Luke - OTTO, Patrick. On decompositions of complete graphs into unicyclic disconnected bipartite graphs on nine edges. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS, 2023, vol. 11, no. 1, pp. 329-341. ISSN 2338-2287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.1.24*](https://doi.org/10.5614/ejgta.2023.11.1.24)*, Registrované v: WOS*

*2. [1.1] SIMARMATA, Nikson - SANDY, Ikhlas Pratama - SUGENG, Kiki Ariyanti. Graceful labeling construction for some special tree graph using adjacency matrix. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS, 2023, vol. 11, no. 2, pp. 343-356. ISSN 2338-2287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.2.1*](https://doi.org/10.5614/ejgta.2023.11.2.1)*, Registrované v: WOS*

*3. [1.1] UMA, L. - RAJASEKARAN, G. On alpha labeling of tensor product of paths and cycles. In HELIYON, 2023, vol. 9, no. 11, pp. Dostupné na:* [*https://doi.org/10.1016/j.heliyon.2023.e21430*](https://doi.org/10.1016/j.heliyon.2023.e21430)*, Registrované v: WOS*

*4. [1.2] ASHARI, Yeva Fadhilah - SALMAN, A. N.M. - SIMANJUNTAK, Rinovia - SEMANIČOVÁ-FEŇOVČÍKOVÁ, Andrea - BAČA, Martin. On (F,H)-sim-magic labelings of graphs. In Electronic Journal of Graph Theory and Applications, 2023-01-01, 11, 1, pp. 49-64. ISSN 23382287. Dostupné na:* [*https://doi.org/10.5614/ejgta.2023.11.1.5*](https://doi.org/10.5614/ejgta.2023.11.1.5)*, Registrované v: SCOPUS*

*5. [1.2] PATODIA, Harish - SAIKIA, Helen K. A note on m-Zumkeller cordial labeling of graphs. In Proyecciones, 2023-02-01, 42, 1, pp. 65-84. ISSN 07160917. Dostupné na:* [*https://doi.org/10.22199/issn.0717-6279-5190*](https://doi.org/10.22199/issn.0717-6279-5190)*, Registrované v: SCOPUS*

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

|  |  |
| --- | --- |
| AEE01 | ALEKAL, Y. - BRUNOVSKÝ, Pavol - CHYUNG, D.H. - LEE, E.B. The quadratic problem for systems with time delays. Y. Alekal, P. Brunovský, D.H. Chyung, E.B. Lee. In IEEE Transactions on Automatic Control, 1971, vol. 16, no. 6, p. 673-687. ISSN 0018-9286. |

Citácie:

*1. [1.1] YAN, Tingjin - CHIU, Mei Choi - WONG, Hoi Ying. Pairs trading under delayed cointegration. In QUANTITATIVE FINANCE, 2022, vol. 22, no. 9, pp. 1627-1648. ISSN 1469-7688. Dostupné na:* [*https://doi.org/10.1080/14697688.2022.2064760*](https://doi.org/10.1080/14697688.2022.2064760)*, Registrované v: WOS*

*2. [1.1] YAN, Tingjin - CHIU, Mei Choi - WONG, Hoi Ying. Portfolio liquidation with delayed information. In ECONOMIC MODELLING, 2023, vol. 126, no., pp. ISSN 0264-9993. Dostupné na:* [*https://doi.org/10.1016/j.econmod.2023.106398*](https://doi.org/10.1016/j.econmod.2023.106398)*, Registrované v: WOS*

*3. [1.1] YAN, Tingjin - WONG, Hoi Ying. Equilibrium pairs trading under delayed cointegration. In AUTOMATICA, 2022, vol. 144, no., pp. ISSN 0005-1098. Dostupné na:* [*https://doi.org/10.1016/j.automatica.2022.110498*](https://doi.org/10.1016/j.automatica.2022.110498)*, Registrované v: WOS*

|  |  |
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| AEE02 | CLEMONS, P. A. - WILSON, J. A. - DANČÍK, Vladimír - MULLER, S. - CARRINSKI, H. A. - WAGNER, B. K. - KOEHLER, A. N. - SCHREIBER, S. L. Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. P. A. Clemons, J. A. Wilson, V. Dančík, S. Muller, H. A. Carrinski, B. K. Wagner, A. N. Koehler, S. L. Schreiber. In Proceedings of the National Academy of Sciences of the United States of America. - Washington : National Academy of Sciences, 2011, vol. 108, no. 17, p. 6817-6822. (2010: 9.771 - IF, Q1 - JCR, 6.898 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0027-8424. |

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*1. [1.1] BHAT, A.A. - TANDON, N. - SINGH, I. - TANDON, R. Structure-activity relationship (SAR) and antibacterial activity of pyrrolidine based hybrids: A review. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, JUL 5 2023, vol. 1283. Dostupné na:* [*https://doi.org/10.1016/j.molstruc.2023.135175*](https://doi.org/10.1016/j.molstruc.2023.135175)*, Registrované v: WOS*

*2. [1.1] LATTANZI, A. From Three- to Six-Membered Heterocycles Bearing a Quaternary Stereocenter: an Asymmetric Organocatalytic Approach. In CHEMICAL RECORD. ISSN 1527-8999, MAY 2023, vol. 23, no. 5. Dostupné na:* [*https://doi.org/10.1002/tcr.202300066*](https://doi.org/10.1002/tcr.202300066)*, Registrované v: WOS*

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| AEE03 | HOLÁ, Ľubica - PELANT, J. Recent progress in hyperspace topologies. In Recent Progress in General Topology II. - North - Holland, 2002, s. 253-285. |

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*1. [1.1] LIU, Chuan - LIN, Fucai. Hyperspaces with a countable character of closed subsets. In TOPOLOGY AND ITS APPLICATIONS, 2023, vol. 328, art. nr. 108461. ISSN 0166-8641. Dostupné na:* [*https://doi.org/10.1016/j.topol.2023.108461*](https://doi.org/10.1016/j.topol.2023.108461)*, Registrované v: WOS*

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| AEE04 | JIRÁSKOVÁ, Galina. Deterministic blow-ups of minimal NFA´s. In RAIRO-THEORETICAL INFORMATICS AND APPLICATIONS, 2006, vol. 40, no. 3, s. 485-499. |

Citácie:

*1. [1.2] KRECZMAN, Savinien - PRIGIONIERO, Luca - ROWLAND, Eric - STIPULANTI, Manon. Magic Numbers in Periodic Sequences. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 206-219. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_16*](https://doi.org/10.1007/978-3-031-33180-0_16)*, Registrované v: SCOPUS*

|  |  |
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| AEE05 | KOREC, Ivan. Real-time generation of primes by a one-dimensional cellular automaton with 9 states. In Actes de MCU';98 (Proc. MCU';98). - 1998, s. 100-116. |

Citácie:

*1. [1.1] DOLCE, Francesco - TAHAY, Pierre-Adrien. Column Representation of Sturmian Words in Cellular Automata. In DEVELOPMENTS IN LANGUAGE THEORY (DLT 2022), 2022, vol. 13257, no., pp. 127-138. ISSN 0302-9743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-05578-2\_10*](https://doi.org/10.1007/978-3-031-05578-2_10)*, Registrované v: WOS*

*2. [1.1] DURAN, Alexis Garcia - SOTO, Jose Manuel Gomez. Real-time Generation of Positive Integer Geometric Sequences by One-Dimensional Cellular Automata. In JOURNAL OF CELLULAR AUTOMATA, 2023, vol. 17, no. 3-4, pp. 281-338. ISSN 1557-5969., Registrované v: WOS*

*3. [1.2] TAHAY, Pierre Adrien. Characteristic Sequences of the Sets of Sums of Squares as Columns of Cellular Automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2023-01-01, 13899 LNCS, pp. 288-300. ISSN 03029743. Dostupné na:* [*https://doi.org/10.1007/978-3-031-33180-0\_22*](https://doi.org/10.1007/978-3-031-33180-0_22)*, Registrované v: SCOPUS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | MAČUTEK, Ján - ČECH, Radek - COURTIN, Marine. The Menzerath-Altmann law in syntactic structure revisited: Combining linearity of language with dependency syntax. In Second Workshop on Quantitative Syntax.Proceedings. Rec. Chiara   Alzetta, Aditya Bhargava. - Stroudsburg, USA : The Association for Computational Linguistics, 2021, p. 65-73. ISBN 978-1-955917-15-5. |

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*1. [1.1] MILICKA, Jiri. Menzerath';s law: Is it just regression toward the mean? In GLOTTOMETRICS, 2023, vol. 55, no., pp. 1-16. ISSN 1617-8351. Dostupné na:* [*https://doi.org/10.53482/2023\_55\_409*](https://doi.org/10.53482/2023_55_409)*, Registrované v: WOS*

*2. [1.2] CHEN, Heng - WANG, Yaqin. How does language evolve as a multi-level system? A quantitative exploration of written Chinese. In Language Sciences, 2023-07-01, 98, pp. ISSN 03880001. Dostupné na:* [*https://doi.org/10.1016/j.langsci.2023.101554*](https://doi.org/10.1016/j.langsci.2023.101554)*, Registrované v: SCOPUS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

|  |  |
| --- | --- |
| AFD01 | KOREC, Ivan - WIEDERMANN, Jiří. Deterministic verification of integer matrix multiplication in quadratic time. In SOFSEM 2014: theory and practice of computer science : proceedings, LNCS 8327. V. Geffert, B. Preneel, B. Rovan, J. Štuller, A.M. Tjoa (eds.). - Cham : Springer, 2014, s. 375-382. ISBN 978-3-319-04297-8. ISSN 0302-9743. (SOFSEM 2014) |

Citácie:

*1. [1.1] BAJARD, Jean-Claude - FUKUSHIMA, Kazuhide - PLANTARD, Thomas - SIPASSEUTH, Arnaud. Fast verification and public key storage optimization for unstructured lattice-based signatures. In JOURNAL OF CRYPTOGRAPHIC ENGINEERING, 2023, vol. 13, no. 3, pp. 373-388. ISSN 2190-8508. Dostupné na:* [*https://doi.org/10.1007/s13389-023-00309-1*](https://doi.org/10.1007/s13389-023-00309-1)*, Registrované v: WOS*

*2. [1.2] CHISTIKOV, Dmitry - MAJUMDAR, Rupak - SCHEPPER, Philipp. Subcubic certificates for CFL reachability. In Proceedings of the ACM on Programming Languages, 2022-01-01, 6, pOPL, pp. Dostupné na:* [*https://doi.org/10.1145/3498702*](https://doi.org/10.1145/3498702)*, Registrované v: SCOPUS*

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

|  |  |
| --- | --- |
| GII01 | FEČKAN, Michal - DANCA, Marius-F.\*\*. Stability, Periodicity, and Related Problems in Fractional-Order Systems : Editorial. In Mathematics, 2022, vol. 10, art. no. 2040. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10122040> |

Citácie:

*1. [1.1] YAN, F. - HOU, X.R. - TIAN, T.T. Fractional-Order Multivariable Adaptive Control Based on a Nonlinear Scalar Update Law. In MATHEMATICS. SEP 2022, vol. 10, no. 18. Dostupné na:* [*https://doi.org/10.3390/math10183385*](https://doi.org/10.3390/math10183385)*, Registrované v: WOS*

***Príloha A-4***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 26

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 52

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 26

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 52

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 2

Počet hodín za semester: 52

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 1

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 32

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Teorie grafů

Počet hodín za semester: 39

Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Topológia

Počet hodín za semester: 26

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 60

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Dátové štruktúry a algoritmy

Počet hodín za semester: 48

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Aplikovaná štatistika + Finančná Matematika

Počet hodín za semester: 72

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Aplikovaná štatistika + Matematika 2

Počet hodín za semester: 72

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Viktor Olejár

Názov semestr. predmetu: Klasické a kvantové výpočty

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

Mgr. Viktor Olejár

Názov semestr. predmetu: Programovanie, algoritmy, zložitosť

Počet hodín za semester: 52

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Základy matematiky (3)

Počet hodín za semester: 26

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

Semináre:

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Proseminár z TEX-u

Počet hodín za semester: 26

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

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha A-5***

**Medzinárodná mobilita organizácie**

**(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Karol Nemoga | 4 |
| Česko |  |  |  |  | Ján Mačutek | 6 |
|  |  |  |  |  | Karol Nemoga | 2 |
| Francúzsko |  |  |  |  | Jana Valigurská | 15 |
| Kanada |  |  |  |  | Stefan Dobrev | 19 |
| Katar |  |  |  |  | Ján Mačutek | 6 |
| Maďarsko |  |  |  |  | Anna Jenčová | 5 |
| Nórsko |  |  |  |  | Ján Mačutek | 4 |
|  |  |  |  |  | Karol Nemoga | 5 |
| Poľsko |  |  |  |  | Ján Mačutek | 6 |
| Portugalsko |  |  |  |  | Viktor Olejár | 250 |
| Rakúsko |  |  |  |  | Gabriel Okša | 6 |
| USA |  |  |  |  | Galina Jirásková | 9 |
| **Počet vyslaní spolu** |  |  |  |  | **13** | **337** |

**(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Maďarsko |  |  |  |  | Gusztáv Fekete | 90 |
| Rakúsko |  |  |  |  | Camillo Breiling | 2 |
|  |  |  |  |  | Emmerich Kelih | 1 |
| Uzbekistan |  |  |  |  | Aygul Babadjanova | 28 |
| **Počet prijatí spolu** |  |  |  |  | **4** | **121** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Belgicko | JADT 2024 | Ján Mačutek | 5 |
| Bulharsko | ICIFS 2024 | Katarína Čunderlíková | 8 |
|  | NDATES 2024 | Martina Langerová | 7 |
| Česko | AAA105 | Emília Halušková | 4 |
|  | CSGT24 | Roman Nedela | 5 |
|  | HOMONOLO 2024 | Roman Nedela | 5 |
|  | IWCCL2024 | Ján Mačutek | 3 |
|  | PPAM 2024 | Martin Bečka | 4 |
|  |  | Gabriel Okša | 4 |
|  | SSAOS 2024 | Emília Halušková | 6 |
|  |  | Jozef Pócs | 6 |
| Egypt | ICMA24 | Ahmed Ibrahim Mohamed Mahmoud Abo Saied | 12 |
| Francúzsko | ICFDA 2024 | Natália Dilna | 7 |
| Japonsko | CIAA 2024 | Galina Jirásková | 10 |
|  |  | Viktor Olejár | 10 |
| Maďarsko | Focused 2024 | Anna Jenčová | 7 |
| Nemecko | IMEKO 2024 | Gejza Wimmer | 5 |
| Nigéria | ASC1st-2024 | Friday Ikechukwu Agu | 5 |
| Poľsko | InsRA-II | Ľubica Holá | 8 |
|  |  | Branislav Novotný | 8 |
| Srbsko | ATA 2024 | Ľubica Holá | 7 |
|  |  | Branislav Novotný | 7 |
| Španielsko | BIRS2024 | Anna Jenčová | 6 |
|  | NATO Workshop SCQT 2024 | Karol Nemoga | 3 |
| Švédsko | EQUADIFF 2024 | Natália Dilna | 5 |
| **Spolu** | **20** | **25** | **157** |

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

Skratky použité v tabuľke C:

AAA105 - 105. Arbeitstagung Allgemeine Algebra

ASC1st-2024 - The 1st Annual Statistical Conference and the 1 st Pre-Conference Workshop

ATA 2024 - Analysis, Topology and Applications 2024

BIRS2024 - BIRS-IMAG Workshops 2024 - Towards Infinite Dimension and Beyond in Quantum Information

CIAA 2024 - The 28th International Conference on Implementation and Application of Automata

CSGT24 - The 59th Czech-Slovak Conference on Graph Theory 2024

EQUADIFF 2024 - The Equadiff conference 2024

Focused 2024 - Focused Workshop on Quantum Rényi Divergences

HOMONOLO 2024 - Workshop HOMONOLO 2024

ICFDA 2024 - 12th IFAC Conference on Fractional Differentiation and its Applications

ICIFS 2024 - The 27th International Conference on Intuitionistic Fuzzy Sets

ICMA24 - The 6th International Conference for Mathematics & Its Applications (ICMA24): Artificial Intelligent and Computational Mathematics

IMEKO 2024 - XXIV IMEKO World Congress

InsRA-II - Inspirations in Real Analysis II

IWCCL2024 - International Workshop on Corpus and Computational Linguistics

JADT 2024 - 17es Journées internationales d'Analyse statistique des Données Textuelles

NATO Workshop SCQT 2024 - Workshop NATO “Secure Communication via Classical and Quantum Technologies”

NDATES 2024 - The 11th International Conference New Trends in the Applications of Differential Equations in Sciences

PPAM 2024 - 15th International Conference on Parallel Processing and Applied Mathematics

SSAOS 2024 - Summer School on General Algebra and Ordered Sets 2024 ***Príloha A-6***

**Vedecko-popularizačná činnosť pracovníkov organizácie**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Exponenciála a trvanie imunity po prekonaní COVIDu-19 (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ J. D. Matejovie, Liptovský Hrádok | 11.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ Komenského, Svit | 15.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ s MŠ Liptovský Ján | 15.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | O štvorci a guli | ZŠ s MŠ Okoličné | 12.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | Rozprávka s tangramom - geometria pre deti netradične | MÚ SAV, Košice, DOD | 14.11.2024 |
| RNDr. Emília Halušková, CSc. |  | PB | Veľké čísla okolo nás | Liptovský Ján, denný detský tábor ECAV | 9.7.2024 |
| RNDr. Emília Halušková, CSc. |  | iné | Vianoce s tangramom | SZŠ pre žiakov s autizmom, Juhoslovanská 2, Košice | 13.12.2024 |
| RNDr. Galina Jirásková, CSc. |  | PB | Formálne jazyky a magické čísla | Matematický piatok, Slezská univerzita, Opava | 13.12.2024 |
| doc. Mgr. Ján Mačutek, PhD. |  | TV | účasť v diskusii RTVS "Prečo je matematika nenahraditeľná" | https://www.rtvs.sk/televizia/archiv/15289/472004 | 5.6.2024 |
| Ing. Igor Mračka, PhD. |  | PB | Po stopách obchodného cestujúceho (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | SAVinci Sú naše peniaze v bezpečí. Minulosť a súčasnosť kryptológie. | KC Bratislava | 3.6.2024 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Vedecká kaviareň Košice - Matematika – Strašiak? – Zábavka? – Pomôcka? | Košice | 30.10.2024 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární? (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| Mgr. Andrea Zemánková, DrSc. |  | PB | Fígle s fúznymi funkciami (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.) | MÚ SAV, Bratislava | 12.11.2024 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Niekoľko poznámok k výrokovej logike | Matematický ústav, detašované pracovisko Košice | 1 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Niekoľko poznámok k výrokovej logike | Matematický ústav, Slezská univerzita, Opava, Česká republika | 1 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Škriatkovia, čarodejník a klobúky | LŠ Pytagoras/ Hronec (okres Brezno) | 1 |
| Mgr. Viktor Olejár |  | PB | Classes Without Frontiers - cyklus prednášok na stredných školách v Porte | Porto, Portugalsko | 2 |

*1 PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film* ***Príloha A-7***

**Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024**

**Domáce ocenenia**

**Ocenenia SAV**

**Hospodár Michal**

Súťaž mladých vedeckých pracovníkov SAV do 35 rokov (3. miesto v I. oddelení vied)

*Oceňovateľ: predseda SAV*

*Opis: Dňa 13.6.2024 som prezentoval výber svojich prác na tému "Zložitosť operácií v podtriedach regulárnych jazykov" počas seminára na Watsonovej 47 v Košiciach. Tento výber bol hodnotený komisiou SAV na seminári dňa 30.4.2024 v Bratislave a umiestnil sa na 3. mieste zo 7 prezentovaných prác.*

**Wimmer Gejza**

Medaila SAV za podporu vedy

*Oceňovateľ: SAV*

**Iné domáce ocenenia**

**Dvurečenskij Anatolij**

Cena mesta Kysucké Nové Mesto za rok 2024

*Oceňovateľ: Mesto Kysucké Nové Mesto*

*Opis: Cena za osobitný a celoživotný významný prínos na poli vedeckej a publikačnej činnosti*

**Medzinárodné ocenenia**

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

**ČASŤ B**

**ČASŤ B   
Výročná správa o hospodárení organizácie za rok 2024**

**Obsah**

19. [Základné informácie o hospodárení organizácie](#chapter19)

20. [Prehľad príjmov a výdavkov](#chapter20)

21. [Pohyb a konečný stav majetku](#chapter21)

22. [Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku](#chapter22)

23. [Ďalšie údaje o hospodárení organizácie](#chapter23)

***PRÍLOHY K ČASTI B***

*B-1* [*Ročná účtovná závierka*](#annexB1)

*B-2* [*Správa štatutárneho audítora k ročnej účtovnej závierke*](#annexB2)

**19. Základné informácie o hospodárení organizácie** (v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

Matematický ústav SAV, v. v. i. ukončil hospodárenie v roku 2024 so ziskom vo výške 16 912,28 EUR, čo oproti roku 2023 predstavuje zvýšenie zisku o 10 589,31 EUR.

Ročná účtovná závierka Matematického ústavu SAV, v. v. i. k 31.12.2024 bola spracovaná podľa slovenských účtovných štandardov (SAS). Počas roka 2024 nedošlo k zmene účtovných metód a zásad.

Počiatočné stavy v roku 2024 boli otvorené v súlade s postupmi účtovania pre účtovné jednotky nezriadené alebo nezaložené na účel podnikania v zmysle konsolidovaného znenia právneho predpisu: „Opatrenie Ministerstva financií Slovenskej republiky zo 14. novembra 2007 č. MF/24342/2007-74“.

**19.1 Prehľad základných finančných ukazovateľov**

****

**19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia**

a) Udalosti osobitného významu po 31. 12. 2024 z hľadiska hospodárenia organizácie

***Po uzavretí účtovného obdobia kalendárneho roka 2024 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie****.*

b) Predpokladaný budúci vývoj organizácie v roku 2025

***Organizácia bude naďalej pokračovať vo svojich aktivitách v súlade so zakladacou listinou a hlavným predmetom činnosti***.

**Prehľad projektov podaných v roku 2024**

V roku 2024 organizácia podala 5 projektov APVV ako hlavný riešiteľ a jeden projekt **APVV** ako spoluriešiteľská organizácia v rámci Verejnej výzvy na predkladanie žiadostí na riešenie projektov výskumu a vývoja v jednotlivých skupinách odborov vedy a techniky – VV 2024 a 2 projekty VEGA:

**APVV:**

**Názov projektu:** Pokroky v kvalitatívnej teórii obyčajných, parciálnych a zlomkových diferenciálnych rovníc

**Kód projektu:** VV-MVP-24-0424

**Celková suma:** 200 453 EUR (139 310 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Irena Jadlovská (Ing. PhD.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**Názov projektu:** Akcelerácia spracovania dát z dopravného prieskumu vykonaného pomocou dronov a ich vzájomná integrácia zohľadňujúca všetky druhy cestnej dopravy

**Kód projektu:** APVV-24-0173

**Celková suma:** 243 200 EUR (92 744 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Tibor Schlosser (prof. Ing. CSc.) – Svf STU Bratislava, Tibor Žáčik (RNDr. CSc.) – za MÚ SAV

**Hlavný riešiteľ/spoluriešiteľ:** spoluriešiteľ

**Názov projektu:** Topologické a množinovo-teoretické aspekty funkcionálnych priestorov

**Kód projektu:** APVV-24-0127

**Celková suma:** 133 250 EUR (53 300 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Ľubica Holá (doc. RNDr. DrSc.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**Názov projektu:** Modely automatov: popisná a výpočtová zložitosť

**Kód projektu:** APVV-24-0103

**Celková suma:** 108 000 EUR (63 000 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Galina Jirásková (RNDr. CSc.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**Názov projektu:** Zložitosť klasických a neklasických automatov

**Kód projektu:** SK-HU-24-0039

**Celková suma:** 4 600 EUR

**Zodpovedný riešiteľ:** Michal Hospodár (Ing. PhD.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**Názov projektu:** Nekomutativita v modelovaní neurčitosti

**Kód projektu:** APVV-24-0098

**Celková suma:** 288 497 EUR (192 997 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Andrea Zemánková (Mgr. DrSc.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**VEGA:**

**Názov projektu:** Výpočty s nekompletnou informáciou

**Kód projektu:** VEGA 2/0117/25

**Celková suma:** 79 350 EUR (16 680 EUR pre MÚ SAV)

**Zodpovedný riešiteľ:** Stefan Dobrev (Mgr. PhD.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

**Názov projektu:** Cykly a hranové ofarbenia kubických grafov

**Kód projektu:** VEGA 2/0056/25

**Celková suma:** 34 200 EUR

**Zodpovedný riešiteľ:** Roman Nedela (prof. RNDr. DrSc.)

**Hlavný riešiteľ/spoluriešiteľ:** hlavný riešiteľ

Organizácia sa nezapojila do výziev z Plánu obnovy na predkladanie žiadostí o poskytnutie finančných prostriedkov v roku 2024.

c) Náklady na činnosť v oblasti výskumu a vývoja

***V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja.***

d) Návrh na rozdelenie zisku alebo vyrovnanie straty  
***O rozdelení zisku alebo vyrovnávaní strát rozhoduje správna rada v spolupráci s dozornou radou organizácie, v súlade so zákonom č. 243/2017 Z. z. o verejnej výskumnej inštitúcii***.

e) Informácia o konsolidácii účtovníctva organizácie:  
***Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.***

**20. Prehľad príjmov a výdavkov**

(v zmysle § 27, ods. 4, písm. g zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Príjmy a výdavky z hlavnej činnosti

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **FP k 01.01.2024** | **Schválený rozpočet** | **Upravený rozpočet** | **Skutočnosť** | **Zostatok FP k 31.12.2024** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| **Príjmy spolu** | **225 293,52** | **1 603 029,00** | **2 486 858,58** | **2 486 872,73** | **x** |
| Z toho: |  |  |  |  |  |
| ŠR ZDROJ 131 (IFP) | **14 914,59** | 0,00 | 0,00 | 0,00 | x |
| ŠR ZDROJ 131 (APVV) | **208,57** | 0,00 | 0,00 | 14,15 | x |
| ŠR ZDROJ 111 (IFP) | **0,00** | 1 449 512,00 | 1 882 739,08 | 1 882 739,08 | x |
| ŠR ZDROJ 111 (IFP-VZ) | **0,00** | 0,00 | 61 034,00 | 61 034,00 | x |
| ŠR ZDROJ 111 (APVV) | **0,00** | 89 837,00 | 111 932,00 | 111 932,00 | x |
|  |  |  |  |  |  |
| ŠF EÚ ZDROJ 3AA1 | **161 819,06** | 0,00 | 186 208,11 | 186 208,11 | x |
| ŠF spolufinancovanie ZDROJ 3AA2 | **26 156,88** | 0,00 | 21 906,84 | 21 906,84 | x |
| Plán Obnovy ZDROJ 3P01 | **0,00** | 0,00 | 191 933,00 | 191 933,00 | x |
| Plán Obnovy - DPH ZDROJ 3P02 | **0,00** | 0,00 | 8 519,80 | 8 519,80 | x |
| Zdroje zo zisku 42 | **5 325,05** | 0,00 | 0,00 | 0,00 | x |
| Vlastné zdroje ZDROJ 46 | **16 869,37** | 20 000,00 | 14 365,75 | 14 365,75 | x |
| Granty od zahr. subjektu ZDROJ 11GR | **0,00** | 43 680,00 | 0,00 | 0,00 | x |
| Granty od zahr. subjektu ZDROJ 13GR | **0,00** | 0,00 | 8 220,00 | 8 220,00 | x |
| **Výdavky spolu** |  | **1 603 029,00** | **2 486 858,58** | **2 283 985,03** | **428 181,22** |
| Z toho: |  |  |  |  |  |
| ŠR ZDROJ 131 (IFP) | x | 0,00 | 0,00 | 14 914,59 | **0,00** |
| ŠR ZDROJ 131 (APVV) | x | 0,00 | 0,00 | 222,72 | **0,00** |
| ŠR ZDROJ 111 (IFP) | x | 1 449 512,00 | 1 882 739,08 | 1 853 579,86 | **29 159,22** |
| ŠR ZDROJ 111 (IFP-VZ) | x | 0,00 | 61 034,00 | 60 925,30 | **108,70** |
| ŠR ZDROJ 111 (APVV) | x | 89 837,00 | 111 932,00 | 111 932,00 | **0,00** |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ŠF EÚ ZDROJ 3AA1 | x | 0,00 | 186 208,11 | 181 087,26 | **166 939,91** |
| ŠF spolufinancovanie ZDROJ 3AA2 | x | 0,00 | 21 906,84 | 25 003,55 | **23 060,17** |
| Plán Obnovy ZDROJ 3P01 | x | 0,00 | 191 933,00 | 13 465,50 | **178 467,50** |
| Plán Obnovy - DPH ZDROJ 3P02 | x | 0,00 | 8 519,80 | 0,00 | **8 519,80** |
| Zdroje zo zisku 42 | x | 0,00 | 0,00 | 5 325,05 | **0,00** |
| Vlastné zdroje ZDROJ 46 | x | 20 000,00 | 14 365,75 | 9 309,20 | **21 925,92** |
| Granty od zahr. subjektu ZDROJ 11GR | x | 43 680,00 | 0,00 |  | **0,00** |
| Granty od zahr. subjektu ZDROJ 13GR | x | 0,00 | 8 220,00 | 8 220,00 | **0,00** |

**Počiatočný stav nedočerpaných finančných prostriedkov**

Počiatočný stav na strane príjmov predstavoval k**01.01.2024** zostatok nedočerpaných prostriedkov z predchádzajúcich období v sume **225 293,52 EUR**. Z toho v sume 14 914,59 EUR išlo o nedočerpané prostriedky IFP a nedočerpané prostriedky z APVV z roku 2023 v sume 208,57 EUR. Nevyčerpané prostriedky z projektov štrukturálnych fondov (Kvant, Zdravie, InoCHF) vo výške 187 975,94 EUR. Vlastné zdroje vo výške 16 869,37, ktoré predstavujú zostatky z príjmov za časopisy, organizovanie konferencií a inej hospodárskej činnosti a zdroje zo zisku z podnikateľskej činnosti vykonávanej do roku 2013 vo výške 5 325,05 EUR.

**Schválený rozpočet príjmov a výdavkov**

Schválený rozpočet na strane príjmov a výdavkov bol zostavený na zdroji 111 vo výške 1 449 512 EUR, vlastných zdrojov vo výške 20 000,00 EUR  a na zdroji grantov od zahraničného subjektu vo výške 43 680 EUR.

**Upravený rozpočet príjmov a výdavkov**

Účtovná jednotka v roku 2024 upravila rozpočet na strane príjmov a výdavkov v celkovej výške **2 486 858,58 EUR**.

**Skutočnosť k 31.12.2024**

Skutočnosť na strane príjmov k 31.12.2024 predstavujú prijaté finančné prostriedky na účet v štátnej pokladnici v celkovej sume **2 486 872,73 EUR.** Z toho prijaté prostriedky zo štátneho rozpočtu na zdroji 111 predstavovali sumu 1 882 739,08 EUR (inštitucionálna forma podpory), 61 034,00 EUR (Výkonnostné zmluvy uzatvorené so zakladateľom) a sumu 111 932,00 EUR (APVV). Suma 14,15 predstavuje prijaté nedočerpané FP od spoluriešiteľa projektu APVV. Príjmy zo zdrojov EÚ a štátneho rozpočtu ako spolufinancovanie projektov EÚ v celkovej výške 208 114,95 EUR. Na zdroji 13GR zahraničné granty – boli príjmy z projektu SASPRO, ktorý je z časti financovaný priamo Európskou komisiou a to vo výške 8 220,00 EUR. Príjmy z Plánu obnovy vo výške 200 452,80 EUR. Príjmy z vlastných zdrojov vo výške 14 365,75 EUR organizácia získala najmä z činností organizovania vedeckých konferencií a predaja časopisov.

Skutočnosť na strane výdavkov predstavovala celkové čerpane finančných prostriedkov v štátnej pokladnici k 31.12.2024 a to vo výške **2 283 985,03 EUR**. Z toho výdavky zo štátneho rozpočtu na zdroji 111 predstavovali celkovú sumu 2 026 437,16 EUR (inštitucionálna forma podpory, Výkonnostné zmluvy a prostriedky zo zmlúv s APVV). V sume 15 137,31 EUR išlo o dočerpanie finančných prostriedkov zo štátneho rozpočtu z roku 2023 na zdroji 131. Na zdroji 13GR zahraničné granty (SASPRO) išlo o čerpanie v sume 8 220,00 EUR. Vlastné zdroje boli čerpané v objeme 9 309,20 EUR, zdroje zo zisku vo výške 5 325,05 EUR. Podstatnú časť výdavkov predstavuje čerpanie finančných prostriedkov z projektov ŠF a Plánu obnovy a to v celkovej výške 219 556,31 EUR.

**Konečný stav nedočerpaných finančných prostriedkov**

Konečný stav (saldo príjmov a výdavkov) k 31.12.2024predstavoval zostatok nedočerpaných finančných prostriedkov v sume **428 181,22 EUR**. Prehľad finančných prostriedkov na bankových účtoch v Štátnej pokladnici je uvedený v tabuľke:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Účet** | **PS k 1.1.2024** | **úbytok** | **nárast** | **KS k 31.12.2024** |
| 221101 | 14 914,59 | 2 223 074,00 | 2 208 720,67 | 29 267,92 |
| 221102 | 187 975,94 | 209 586,39 | 207 562,25 | 190 000,08 |
| 221123 | 16 869,37 | 14 905,75 | 9 849,20 | 21 925,92 |
| 221221 | 0,00 | 200 452,80 | 13 465,50 | 186 987,30 |
| **Celkový súčet** | **219 759,90** | **2 648 018,94** | **2 439 597,62** | **428 181,22** |

**21. Pohyb a konečný stav majetku**

(v zmysle § 27, ods. 4, písm. h zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

**Majetok**



**Štruktúra aktív**



**Bilančná hodnota brutto** na strane aktív dosiahla k 31.12.2024 sumu **743 951,27 EUR**, čo v porovnaní so stavom ku koncu roku 2023 predstavuje nárast o 5,52 %.

****

**Bilančná hodnota netto** na strane aktív dosiahla k 31.12.2024 sumu **509 828,70 EUR**, čo v porovnaní so stavom ku koncu roku 2023 predstavuje nárast o 1,35 %.

Pokles na strane aktív a pasív sa prejavil najmä na krátkodobých pohľadávkach účtovnej jednotky a to vo výške 188 713 EUR EUR a krátkodobých záväzkoch vo výške 16 071,06 EUR. Účtovná jednotka je povinná účtovať aj o pohľadávkach a záväzkoch z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy. Ide najmä o inštitucionálnu podporu a o dotácie z projektov APVV. Najväčší pokles vykazuje účtovaná jednotka na krátkodobých pohľadávkach a to pohľadávky voči APVV (účet 346) a krátko-dobých záväzkoch.

Na strane pasív najväčší nárast vykazuje účtovná jednotka na účtoch časového rozlíšenia – výnosy budúcich období a to vo výške 15 003,96 EUR, kde účtovná jednotka účtovala rozpustenie výnosov k vznik-nutým nákladom pri čerpaní poskytnutých transferov. Pokles dlhodobých záväzkov vznikol odúčtovaním záväzkov účtovaných na základe viacročných zmlúv s APVV.

V zmysle vydaného stanoviska Ministerstva financií SR zo dňa 23.1.2024 verejným výskumným inštitúciám bolo odporúčané , vzhľadom na následnú konsolidáciu účtovnej závierky, ako subjektov verejnej správy od roku 2024 účtovať záväzky a pohľadávky týkajúce sa dotácií na ročnej báze.

Prehľad rozdielov na strane aktív a pasív uvedené v tabuľkách nižšie:



Celkové výnosy verejnej výskumnej inštitúcie k 31.12.2024 predstavovali sumu **2 313 310,75 EUR,** čo predstavuje zvýšenie o **221 485,31 EUR** oproti roku 2023.Najvyšší podiel na výnosoch v roku 2024 bolo použitie dotácií zo štátneho rozpočtu a to najmä zo zdrojov IFP a zdrojov z Výkonnostnej zmluvy.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Štruktúra výnosov** | **rok 2024** | | **rok 2023** | |
| **v EUR** | **% podiel na celk.výnosoch** | **v EUR** | **% podiel na celk.výnosoch** |
| Tržby z predaja služieb | 32 605,45 | 1,41% | 48 730,07 | 2,28% |
| Ostatné výnosy z prevádzkovej činnosti | 0,00 | 0,00% |  | 0,00% |
| Iné ostatné výnosy | 0,00 | 0,00% | 30,80 | 0,00% |
| Prijaté príspevky od právnických osôb | 8 220,00 | 0,36% | 32 880,00 | 1,54% |
| Výnosy z bežných transferov zo štátneho rozpočtu | 0,00 | 0,00% | 0,00 | 0,00% |
| Výnosy z kapitálových transferov zo ŠR | 0,00 | 0,00% | 0,00 | 0,00% |
| Výnosy z BT od ost. subj. mimo VS | 0,00 | 0,00% | 0,00 | 0,00% |
| Dotácie | 2 272 485,30 | 98,24% | 2 050 999,99 | 96,17% |
| **Celkové výnosy** | **2 313 310,75** | 100,00% | **2 132 640,86** | 100,00% |

Celkové náklady verejnej výskumnej inštitúcie k 31.12.2024 predstavovali sumu **2 296 398,47 EUR**, čo predstavuje zvýšenie oproti roku 2023 o sumu **170 080,58 EUR**.Najväčší podiel na nákladoch predstavujú osobné náklady (mzdy, sociálne poistenie, ostatné sociálne poistenie a zákonné sociálne poistene), kde sa premietla najmä valorizácia miezd k 1.9.2023.



**22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku**

(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

V roku 2024 neprebehla na Matematickom ústave SAV, v. v. i. žiadna kontrola.

**23. Ďalšie údaje o hospodárení organizácie**

(v zmysle § 27, ods. 4, písm. j zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

**23.1. Výdavky organizácie – štruktúra zdrojov**

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2024 v €)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Výdavky** | **Spolu** | **Kapitola SAV (111)** | **Iné štátne a verejné zdroje (APVV, ŠF, PO)** | **Zdroje EÚ Zahraničné granty** | **Vlastné zdroje 46** | **% krytia z SAV** |
| **1. Bežné výdavky spolu** | **2 268 847,72** | **1 914 505,16** | **150 401,05** | **189 307,26** | **14 634,25** | 84,38 |
| z toho |  |  |  |  |  |  |
| mzdy 610 | **1 385 105,81** | 1 217 755,80 | 47 617,85 | 119 732,16 | 0,00 | 87,92 |
| vedecká výchova štipendia 640 | **67 103,19** | 53 019,50 | 11 629,50 |  | 2 454,19 | 79,01 |
| poistné 620 | **489 897,37** | 425 346,32 | 16 565,86 | 41 818,39 | 6 166,80 | 86,82 |
| tovary a služby 630 | **281 397,81** | 192 150,17 | 55 477,67 | 27 756,71 | 6 013,26 | 68,28 |
| transfery partnerom a jednotlivcom 640 | **45 343,54** | 26 233,37 | 19 110,17 | 0,00 | 0,00 | 57,85 |
| **2. Kapitálové výdavky** | **0,00** | **0,00** | **0,00** | **0,00** | **0,00** |  |

**23.2. Zdroje financovania organizácie**

Tabuľka 23b Vybrané zdroje financovania organizácie kapitolou (skutočnosť k 31. 12. 2024 v €)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Zdroje** | **Spolu** | **z toho:** | | |
| **Kapitálové zdroje** | **Zdroje na platy 610** | **Zdroje na odvody 620** |
| **1. Kapitola SAV (111)** | **368 345,50** |  |  |  |
| VEGA | 64 576,00 |  |  |  |
| Časopisy | 37 909,00 |  |  | 368,70 |
| DoktoGrant | 2 000,00 |  |  |  |
| MVTS podpora |  |  |  |  |
| SASPRO | 38 122,80 |  | 20 062,80 | 7 260,00 |
| Vedecká výchova | 55 659,50 |  |  |  |
| Teplo a TÚV | 3 620,00 |  |  |  |
| Tovary a služby (630) | 105 424,20 |  |  |  |
| Výkonnostná zmluva | 61 034,00 |  | 44 500,00 | 15 438,49 |

**23.3 Ostatné údaje o hospodárení organizácie**

**Výročnú správu o hospodárení organizácie zostavili:**

Ing. Iveta Červenková

Mgr. Marek Hyčko, PhD.

Mgr. Elena Vinceková, PhD.

**Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie**

**Stanovisko správnej rady**

Správna rada Matematického ústavu SAV, v. v. i. na svojom zasadnutí dňa 25. 06. 2025 prerokovala Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2024. Skonštatovala, že výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení.

**Stanovisko vedeckej rady**

Vedecká rada Matematického ústavu SAV, v. v. i. na dňa 26. 06. 2025 prerokovala Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2024. Skonštatovala, že výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení.

**Stanovisko dozornej rady**

Dozorná rada Matematického ústavu SAV, v. v. i. prerokovala dňa 25. 06. 2025 predložené znenie Výročnej správy organizácie za rok 2024 a nemá pripomienky.

V Bratislave 30. 06. 2025

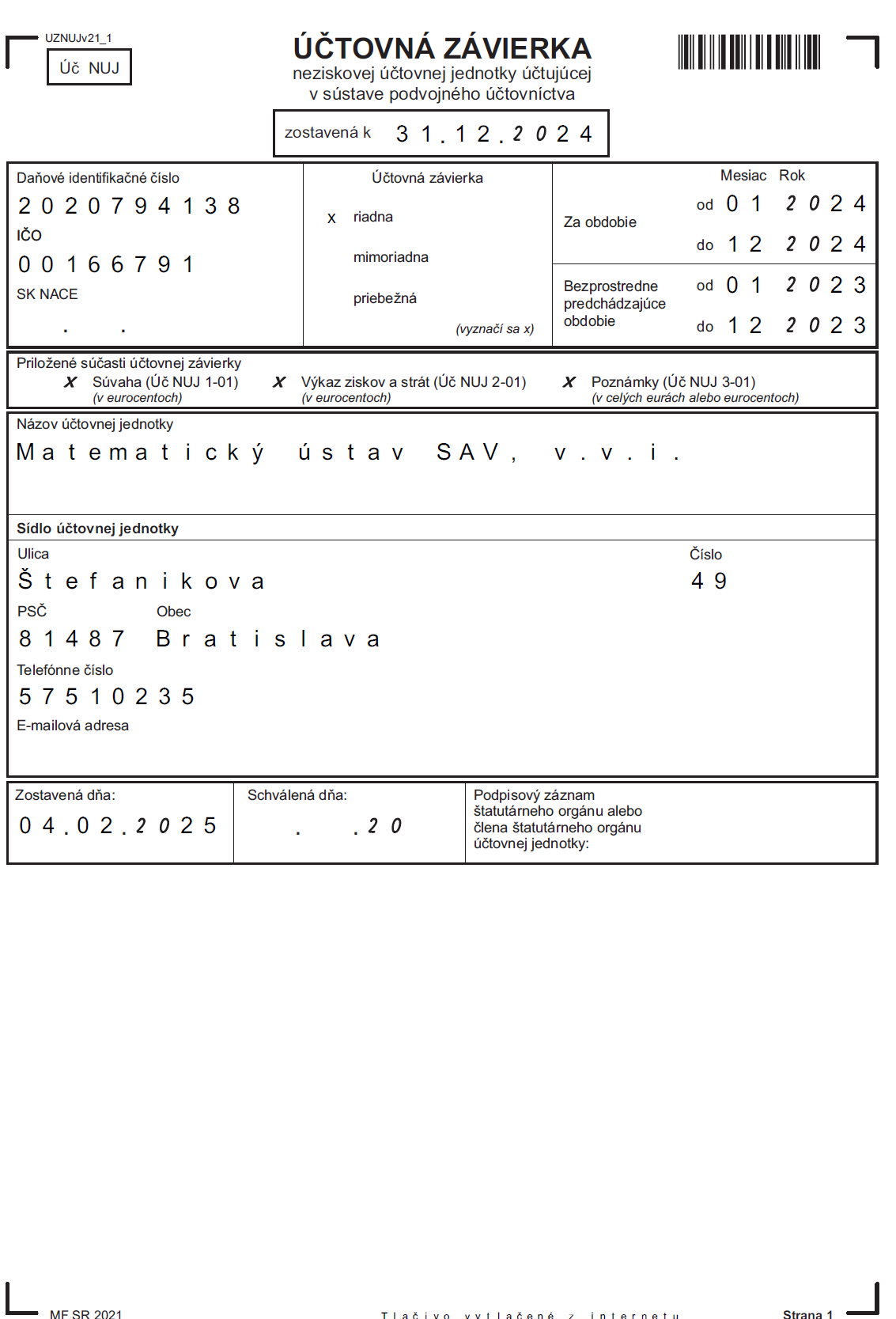
.........................................................................

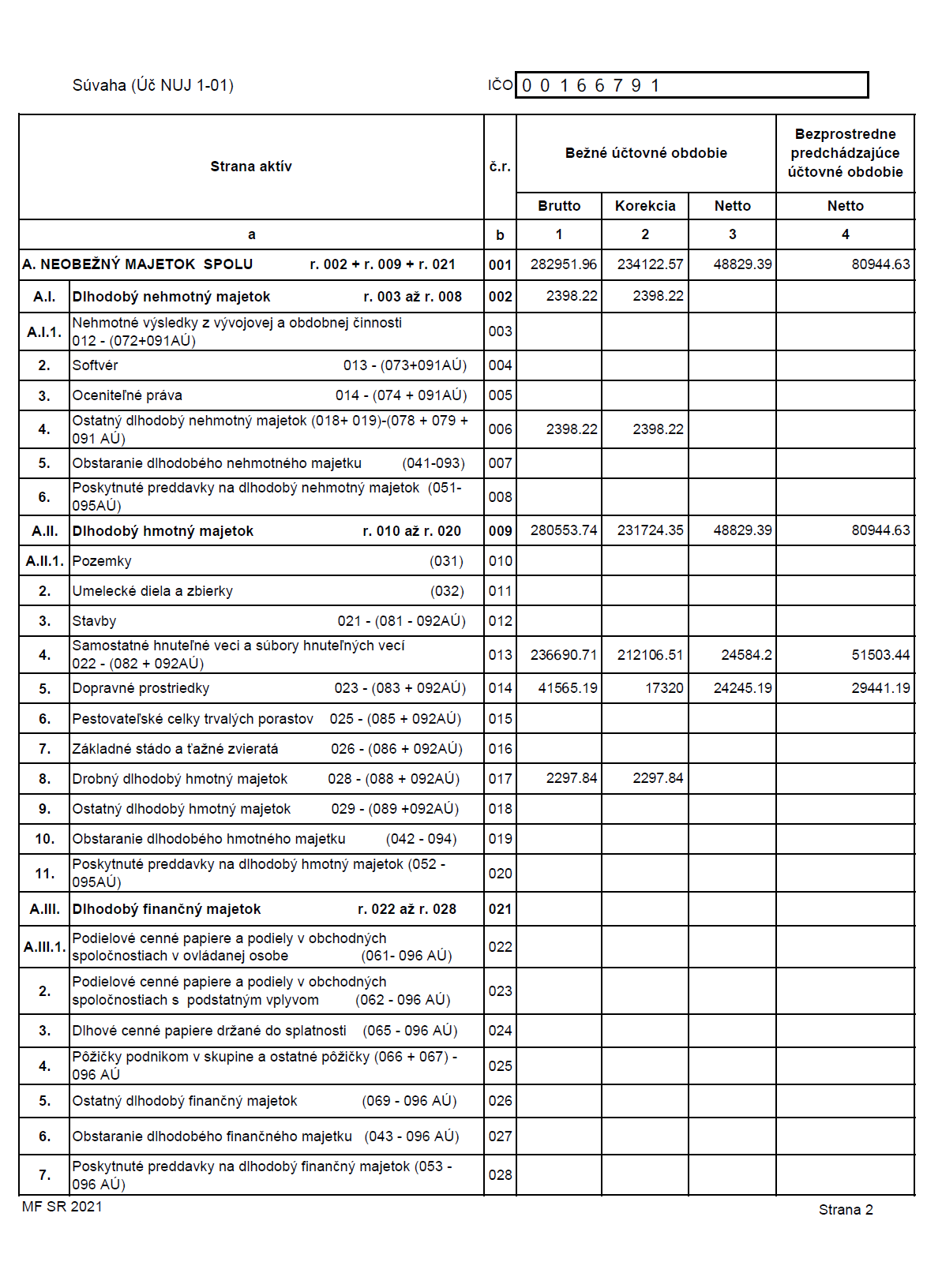
doc. RNDr. Karol Nemoga, CSc.

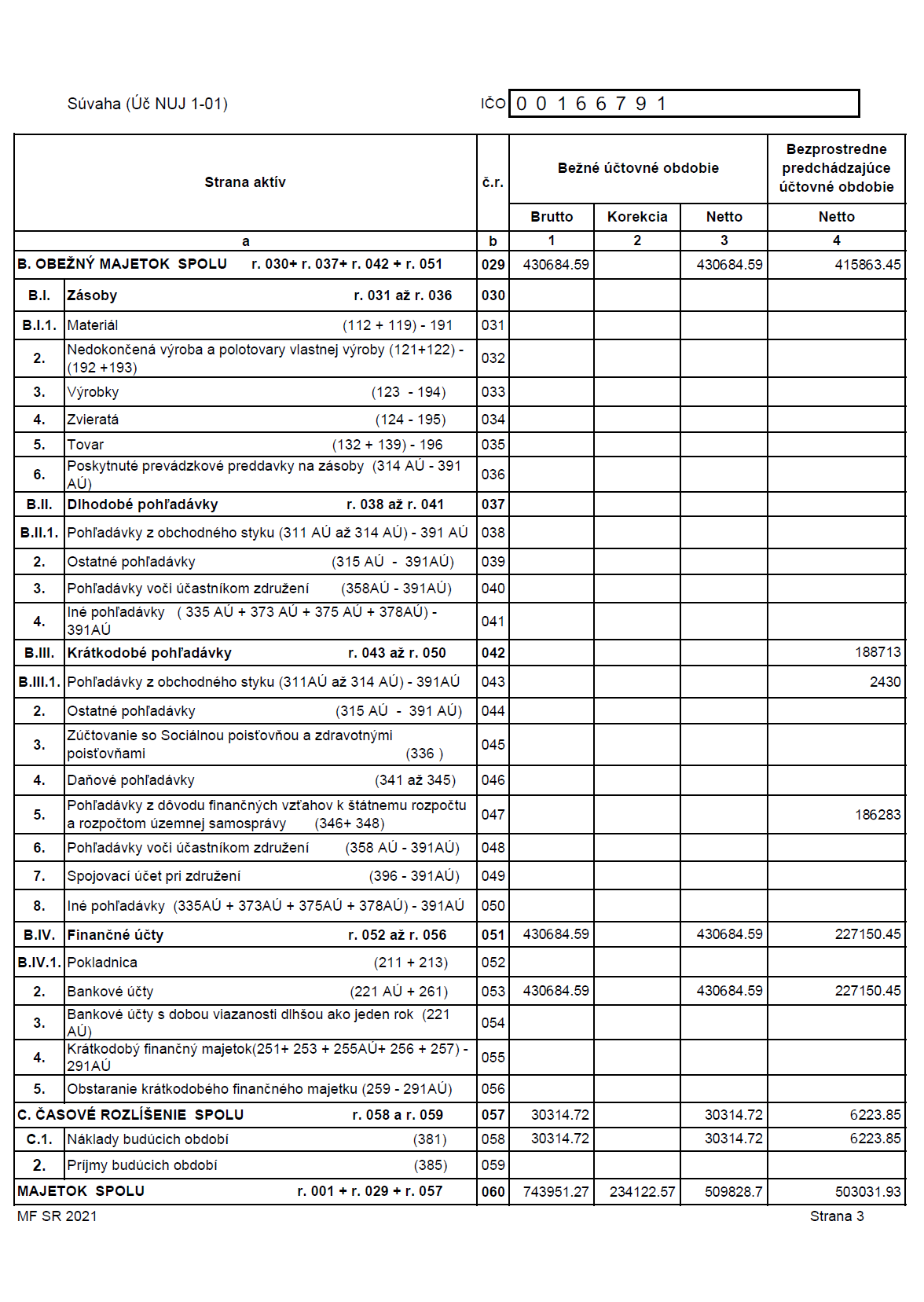
riaditeľ Matematického ústavu SAV, v. v. i.

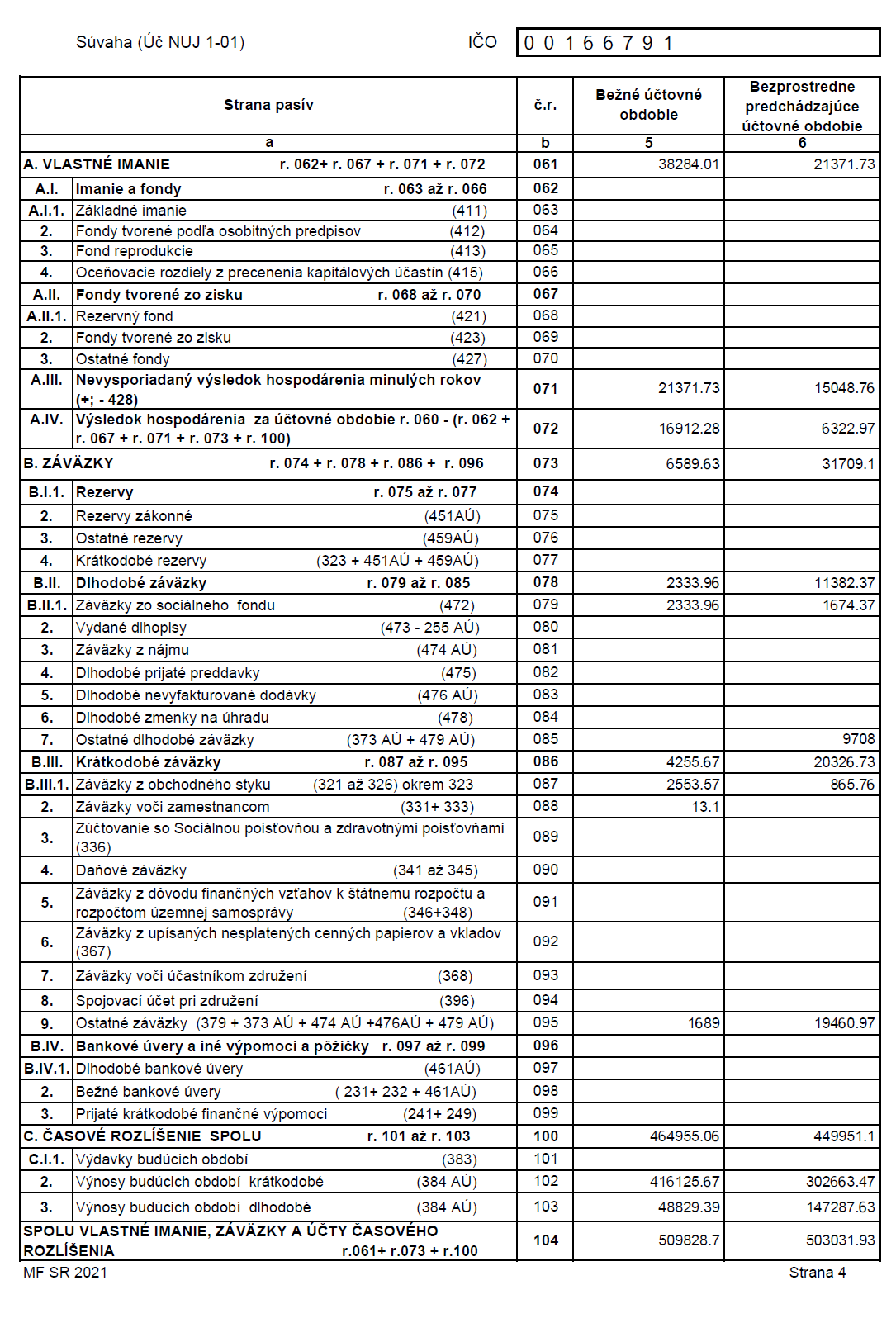
**PRÍLOHY K ČASTI B**

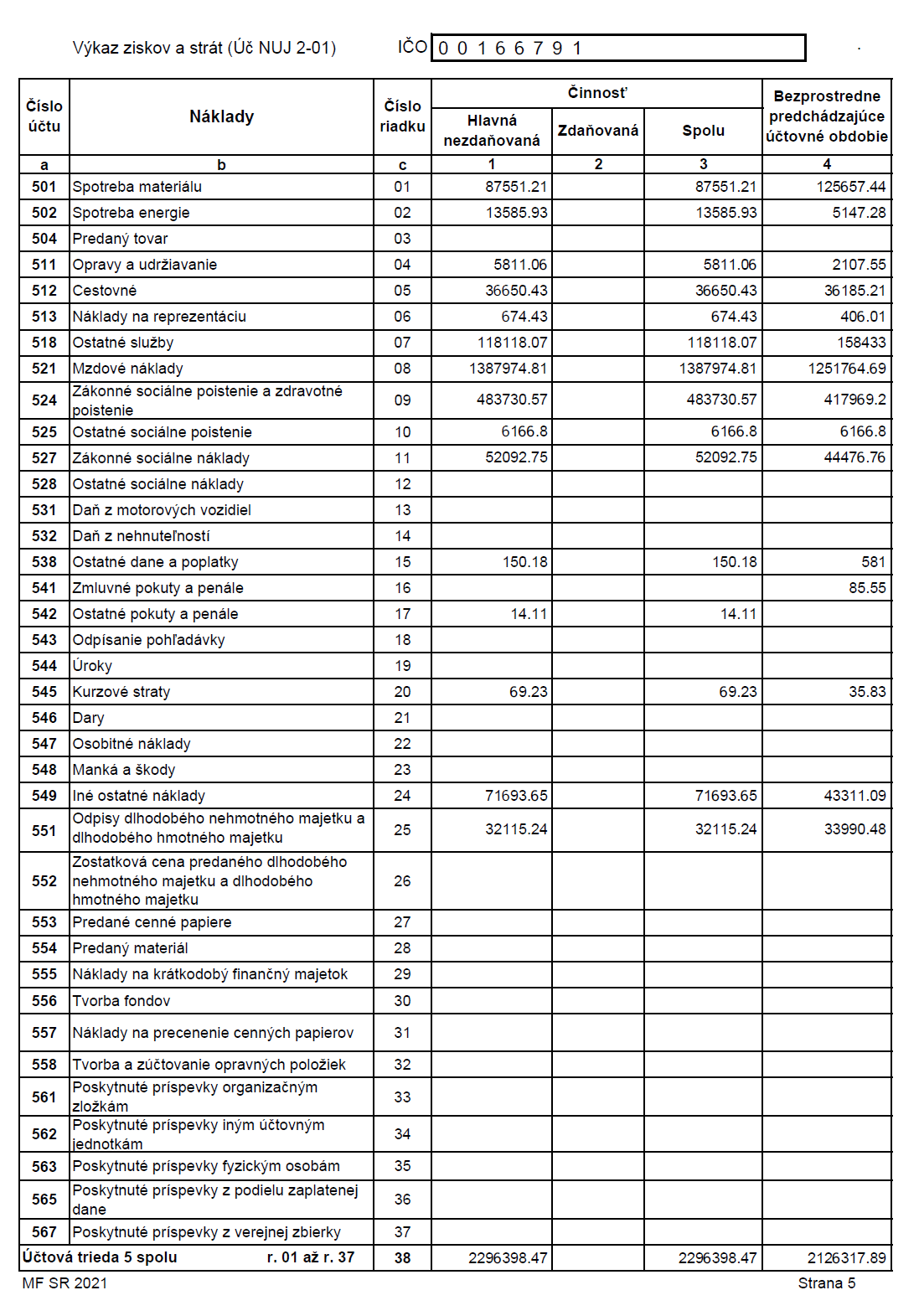
**Príloha B-1 Ročná účtovná závierka**

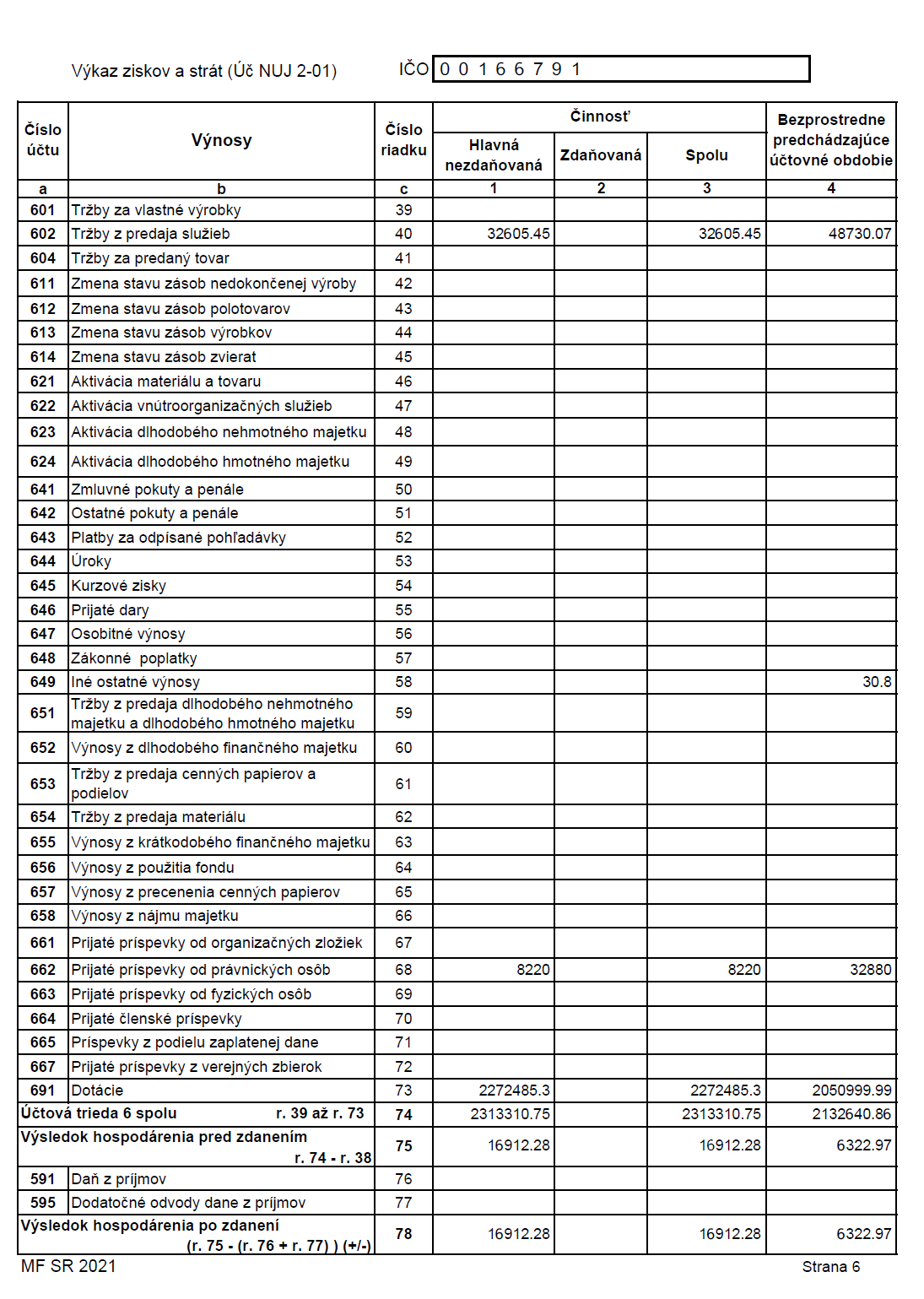
****

****









|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Poznámky (Úč NUJ 3 – 01) | **IČO** | **0** | **0** | **1** | **6** | **6** | **7** | **9** | **1** |  |  |  |  |

**Čl. I**

**Všeobecné informácie**

(1) Ústav vznikol ako Kabinet matematiky uznesením Predsedníctva SAV č. VIII zo dňa 19. 1. 1959 s účinnosťou od 1. 3. 1959. Uznesením Predsedníctva SAV č. VII zo dňa 28. 6. 1965 bo premenovaný na Matematický ústav Slovenskej akadémie vied

Slovenská akadémia vied, sídlo: Štefánikova 49, 814 73 Bratislava, IČO: 00037869, je zakladateľom účtovnej jednotky /organizácie/ s názvom **Matematický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia.** Sídlom organizácie je Štefánikova 49, 814 73 Bratislava: IČO 00166791.

Dňa 5. 10. 2021 nadobudol účinnosť zákon č. 347/2021 Z. z., ktorým sa menil a dopĺňal zákon o akadémii. Na základe § 21aa ods. 1 zákona č. 133/2002 Z. z.o Slovenskej akadémii vied a na základe zakladacej listiny sa právna forma Matematického ústavu Slovenskej akadémie vied mení zo štátnej rozpočtovej organizácie na verejnú výskumnú inštitúciu. Zakladaciu listinu schválilo predsedníctvo Slovenskej akadémie vied na svojom zasadnutí dňa 28. 10. 2021.

Zapísaná v Registri verejných výskumných inštitúcií

Právny dôvod k zostaveniu účtovnej závierky:

* **riadna**

Účtovná závierka zostavená podľa zákona č. 431/2002 Z. z. o účtovníctve.

Účtovná jednotka je súčasťou konsolidovaného celku:

* **kapitola Slovenská akadémia vied**

Obdobie za, ktoré sa riadna účtovná závierka zostavuje:

* **od 01.01.2024 – 31.12.2024**

(2) Orgánmi organizácie sú riaditeľ, správna rada, vedecká rada a dozorná rada.

Riaditeľom organizácie je doc. RNDr. Karol Nemoga, CSc. Zástupcom riaditeľa prof. RNDr. Anatolij Dvurečenskij, DrSc.

Správna rada má 5 členov. Predsedom správnej rady je riaditeľ organizácie, podpredsedom prof. RNDr. Anatolij Dvurečenskij, DrSc. a členmi doc. Ing. Gabriel Okša, CSc., RNDr. Jozef Pócs, PhD., RNDr. Tibor Žáčik, CSc.

Vedecká rada má 5 členov. Predsedníčkou vedeckej rady je Mgr. Anna Jenčová, DrSc., podpredsedom Mgr. Marek Hyčko, PhD. A členmi doc. RNDr. Ľubica Holá, DrSc., prof. RNDr. Roman Nedela, DrSc. a doc. RNDr. Sylvia Pulmannová, DrSc.

Dozorná rada má 3 členov. Predsedníčkou dozornej rady je Ing. Ivana Budinská, PhD. a členmi Ing. Romana Jurkiewiczová, a  prof. RNDr. Martin Kalina, CSc.

(3) Opis činnosti, na účel ktorej bola účtovná jednotka zriadená a opis druhu podnikateľskej činnosti, ak ju účtovná jednotka vykonáva.

* ***V priebehu roka 2024 účtovná jednotka vykonávala iba hlavnú činnosť.***

Prevažujúcou hlavnou činnosťou organizácie je**:**

- uskutočňovanie výskumu,

- zabezpečovanie a správa infraštruktúry výskumu a vývoja,

- získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky, a tiež poznatkov

z vlastného výskumu a vývoja,

- podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho

stupňa vysokoškolského štúdia,

- spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami

uskutočňujúcimi výskum a vývoj a s podnikateľmi.

**Predmetom činnosti organizácie v zmysle § 2 ods. 1 zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii je:**

* **činnosť':**  
  i) uskutočňovania výskumu,  
  ii) získavania, spracúvania a šírenia informácii z oblasti vedy a techniky a poznatkov  
  z vlastného výskumu a vývoja alebo  
  iii) spolupráce v oblasti vedy a techniky s vysokými školami, ostatnými právnickými  
  osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi,  
  v odboroch: Ekonomické vedy a obchod (050200); a to na základe požiadaviek orgá-  
  nov verejnej správy za podmienok podľa osobitných predpisov,
* **b) činnosť'**:  
  i) uskutočňovania výskumu alebo  
  ii) získavania, spracúvania a šírenia informácií z oblasti vedy a techniky a poznatkov  
  z vlastného výskumu a vývoja,  
  v odboroch uvedených v písmene a), a to ako podnikateľská činnosť,
* **c) činnosť' zabezpečovania a správy infraštruktúry výskumu a vývoja, a to:**  
  i) na základe požiadaviek orgánov verejnej správy za podmienok podľa osobitných  
  predpisov alebo  
  ii) ako podnikateľská činnosť',  
  d) činnosť' vývoja a inovácii v odboroch uvedených v písmene a), a to:  
  i) na základe požiadaviek orgánov verejnej správy za podmienok podľa osobitných  
  predpisov,  
  ii) ako podnikateľská činnosť' alebo  
  iii) vo forme projektov podľa osobitných predpisov

(4) Priemerný prepočítaný počet zamestnancov, a z toho počet vedúcich zamestnancov účtovnej jednotky za účtovné obdobie, za ktoré sa zostavuje účtovná závierka (ďalej len „bežné účtovné obdobie“). Počet dobrovoľníkov vyslaných účtovnou jednotkou a počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre účtovnú jednotku počas bežného účtovného obdobia.

|  |  |  |
| --- | --- | --- |
|  | **Bežné účtovné obdobie** | **Počet hodín vykonávania dobrovoľníckej činnosti** |
| Priemerný prepočítaný počet zamestnancov | 49,8 | x |
| z toho počet vedúcich zamestnancov | 6 | x |
| Počet dobrovoľníkov vyslaných účtovnou jednotkou | 0 | 0 |
| Počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre účtovnú jednotku počas účtovného obdobia | 0 | 0 |

(5) Organizácia má tri vedecké oddelenia, hospodársko-správny útvar a sekretariát riaditeľa.

Vedeckými oddeleniami sú :

* + - * oddelenie matematiky,
      * oddelenie aplikovanej matematiky a
      * oddelenie informatiky.

Organizácia má dve detašované pracoviská:

* + - * Ďumbierska 1, 974 11 Banská Bystrica
      * Grešákova 6, 040 01 Košice.

(6) Organizácia nemá zriadené iné organizácie, ktoré by boli v jej zriaďovateľskej pôsobnosti.

**Čl. II**

**Informácie o účtovných zásadách a účtovných metódach**

(1) Informácia, či je účtovná závierka zostavená za splnenia predpokladu, že účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.

* ***Účtovná závierka bola zostavená za predpokladu, že účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.***

(2) Zmeny účtovných zásad a zmeny účtovných metód s uvedením dôvodu týchto zmien a vyčíslením ich vplyvu na finančnú hodnotu majetku, záväzkov, základného imania a výsledku hospodárenia účtovnej jednotky.

* ***Zmeny účtovných metód a zásad v priebehu roka 2024 v účtovnej jednotke nenastali.***
* ***Účtovníctvo vedené účtovnou jednotkou je v súlade s platným zákonom o účtovníctve a platnými postupmi účtovania pre účtovné jednotky nezriadené alebo nezaložené na účel podnikania účtujúce v sústave podvojného účtovníctva, založené na takých zásadách a metódach, v ktorých sa premieta nepretržité fungovanie účtovnej jednotky. Účtovná závierka je zostavená na základe účtovníctva, ktoré je vedené v peňažných jednotkách meny euro.***
* ***Účtovníctvo je vedené na základe dodržania časovej a vecnej súvislosti nákladov a výnosov. Za základ sa berú všetky náklady a výnosy, ktoré sa vzťahujú na účtovné obdobie, v ktorom vznikli, bez ohľadu na dátum ich úhrady.***
* ***Uplatňuje sa princíp opatrnosti, sú vyjadrené riziká, znehodnotenia a straty, ktoré sa týkajú majetku a záväzkov a sú známe ku dňu zostavenia účtovnej závierky. Použité metódy a zásady účtovania poskytujú verný a pravdivý obraz o skutočnostiach, ktoré sú predmetom účtovníctva a finančnej situácie účtovnej jednotky.***
* ***Usmernenie č. MF/006583/2024-74 zo dňa 23.1.2024***

***V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze. Všetky zaúčtované pohľadávky o pridelení dotácií „ prísľuby“ na nasledujúce roky boli v roku 2024 odúčtované, čím sa znížila celkové hodnota majetku organizácie.***

***Pri dodržaní akruálneho princípu v rámci účtovného obdobia a vykázania nákladov a výnosov z titulu dotácie a jej použitia v rámci príslušného účtovného obdobia, bude VVI účtovať predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov bude zúčtovávať účet 384 do výnosov na účte 691 – Dotácie.***

* ***Usmernenie č. MF/008411/2024-74 zo dňa 8.3.2024***

***V zmysle usmernenia č. MF/24342/2007-74“ verejné výskumné inštitúcie, ktoré účtujú o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužije v období, v ktorom bola prijatá, VVI je v súlade s §45 ods. 8 opatrenia povinná ju časovo rozlíšiť a preúčtovať prostredníctvom účtu 384 – Výnosy budúcich období.***

***Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ktorý je VVI pri jeho následnom používaní povinná uvádzať na mesačnej báze vo výkazoch FIN-12 a súčasne zahrnúť do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka, bude VVI účtovať tieto dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich bude zúčtovávať na účte 691 – Dotácie.***

(3) Spôsoby ocenenia jednotlivých položiek majetku a záväzkov.

***Použité spôsoby oceňovania jednotlivých zložiek majetku účtovnou jednotkou sú v súlade s §24 zákona o účtovníctve. Spôsob ocenia jednotlivých zložiek majetku:***

* Dlhodobý nehmotný a hmotný majetok nakupovaný sa oceňuje obstarávacou cenou. Obstarávacia cena zahŕňa cenu, za ktorú sa majetok obstaral a vedľajšie náklady súvisiace s jeho obstaraním (clo, preprava, montáž, poistné a pod.).
* Dlhodobý majetok nadobudnutý bezodplatným prevodom pri splynutí, zlúčení, rozdelení alebo pri prevode správy sa oceňuje cenou, v ktorej sa doteraz viedol v účtovníctve. Ak cenu nie je možné zistiť, oceňuje sa reálnou cenou. Dlhodobý majetok obstaraný iným spôsobom (napr. bezodplatne nadobudnutý majetok, novozistený majetok pri inventarizácii) sa oceňuje reálnou hodnotou. Reálnou hodnotou sa rozumie cena, ktorá sa stanoví kvalifikovaným odhadom, ktorý vychádza spravidla zo súčasnej hodnoty budúcich peňažných príjmov z majetku a budúcich peňažných výdavkov na majetok; diskontná sadzba sa určí ako vnútorná miera návratnosti požadovaná investormi pre daný druh majetku ku dňu jeho ocenenia, za ktorú by sa majetok obstaral v čase, keď sa o ňom účtuje.
* Zásoby sa oceňujú obstarávacou cenou, ktorá zahŕňa cenu obstarania a náklady súvisiace s obstaraním (clo, preprava, poistné a pod.)
* Pohľadávky pri ich vzniku sa oceňujú menovitou hodnotou.
* Peňažné prostriedky a ceniny sa oceňujú ich menovitou hodnotou.
* Záväzky pri ich vzniku sa oceňujú menovitou hodnotou.

***Prepočet údajov v cudzích menách:***

* Majetok a záväzky vyjadrené v cudzej mene sa prepočítavajú na menu euro referenčným výmenným kurzom určeným a vyhláseným Európskou centrálnou bankou v deň predchádzajúci dňu uskutočnenia účtovného prípadu resp. v deň, ku ktorému sa zostavuje účtovná závierka. Na ocenenie prírastku cudzej meny nakúpenej za menu euro sa použije kurz, za ktorý bola táto cudzia mena nakúpená, alebo referenčný kurz v deň uzavretia obchodu. Na ocenenie prírastku cudzej meny v mene euro nakúpenej za inú cudziu menu sa použije hodnota inej cudzej meny v eurách alebo sa na ocenenie prírastku cudzej meny v eurách použije referenčný kurz v deň uzavretia obchodu.

(4) Spôsob zostavenia odpisového plánu pre jednotlivé druhy dlhodobého hmotného majetku a dlhodobého nehmotného majetku, pričom sa uvádza doba odpisovania, použité sadzby odpisov a odpisové metódy pri určení odpisov.

|  |  |  |  |
| --- | --- | --- | --- |
| **Druh dlhodobého majetku** | **Doba odpisovania** | **Sadzba odpisov** | **Odpisová metóda** |
| Stroje, prístroje a zariadenia | 4 | 25 | rovnomerná |
| Dopravné prostriedky | 8 | 12,5 | rovnomerná |
| Kancelársky nábytok | 4 | 25 | rovnomerná |
| softvér | 4 | 25 | rovnomerná |

* Dlhodobý nehmotný a hmotný majetok je odpisovaný podľa odpisového plánu v súlade s §28 zákona o účtovníctve a §23 postupov účtovania pre účtovné jednotky, ktoré nie sú založené alebo zriadené na účel podnikania a internými smernicami organizácie.
* Dlhodobý hmotný a dlhodobý nehmotný majetok sa oceňuje obstarávacími cenami vrátane nákladov súvisiacich s jeho obstaraním a všetky zníženia tejto obstarávacej ceny. Dlhodobý nehmotný majetok, ktorého obstarávacia cena je nižšia ako 2.400,- eur a dlhodobý hmotný majetok, ktorého obstarávacia cena je nižšia ako 1.700,- eur sa účtuje priamo do nákladov. Hodnota tohto majetku sa zároveň účtuje na podsúvahových účtoch.

(5) Zásady pre zohľadnenie zníženia hodnoty majetku. Uvádza sa, či účtovná jednotka uplatňuje opravné položky a rezervy.

* ***Účtovná jednotka v roku 2024 neznižovala hodnotu majetku.***

(6) Informácie o účtovaní opráv významných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia minulých rokov; súčasne sa môže uviesť aj informácia o účtovaní opráv nevýznamných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia bežného účtovného obdobia.

* ***Účtovná jednotka v roku 2024 neúčtovala o oprave chýb minulých účtovných období.***

**Čl. III**

**Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe**

1. Významné sumy prírastkov a úbytkov dlhodobého nehmotného majetku a dlhodobého hmotného majetku.





1. Prehľad dlhodobého majetku, na ktorý je zriadené záložné právo a prehľad dlhodobého majetku, pri ktorom má účtovná jednotka obmedzené právo s ním nakladať.

***Účtovná jednotka má obmedzené právo nakladať s prioritným majetkom štátu v zmysle zákona 243/2017 Z. z. o verejnej výskumnej inštitúcii. Nakladanie s ostatným majetkom verejnej výskumnej inštitúcie je rovnako upravené týmto zákonom.***

1. Údaje o štruktúre dlhodobého finančného majetku za bežné účtovné obdobie a jeho umiestnenie v členení podľa položiek súvahy v riadkoch 022 a 023.

|  |  |  |
| --- | --- | --- |
| **Názov účtovnej jednotky** | **Podiel na základnom imaní (v %)** | **Podiel účtovnej jednotky na hlasovacích právach**  **(v %)** |
|
|  |  |  |

1. Údaje o štruktúre dlhodobého finančného majetku a krátkodobého finančného majetku v členení podľa položiek súvahy v riadkoch 051,052,053 a 054.

|  |  |  |
| --- | --- | --- |
| **Opis druhu finančného majetku** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| Pokladnica | 0,00 |  |
| Bankové účty – ŠP | 430 684,59 |  |

1. Údaje o štruktúre dlhodobých pôžičiek.

* ***Účtovná jednotka neúčtuje o dlhodobých pôžičkách***

1. Prehľad  o vývoji významných súm opravných položiek podľa jednotlivých druhov majetku.

* ***Účtovná jednotka v roku 2024 netvorila opravné položky.***

1. Opis významných súm pohľadávokv nadväznosti na položky súvahy, v členení na pohľadávky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť za bežné účtovné obdobie.

|  |  |  |
| --- | --- | --- |
| **Druh a opis významných položiek pohľadávok** | **Hlavná nezdaňovaná činnosť** | **Zdaňovaná činnosť** |
| Pohľadávky z obchodného styku | 0,00 | - |
| Pohľadávky z dôvodu finančných vzťahov k ŠR | 0,00 | - |

1. Prehľad pohľadávok do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

|  |  |  |
| --- | --- | --- |
| **Pohľadávky** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| - do uplynutia lehoty splatnosti | 188 713,00 | 0,00 |
| - po uplynutí lehoty splatnosti | 0,00 | 0,00 |
| **Spolu** | **188 713,00** | **0,00** |

* ***Účtovná jednotka je povinná účtovať aj o pohľadávkach z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy. Ide najmä o inštitucionálnu podporu, o dotácie z projektov APVV a iných projektov zo štrukturálnych fondov. Najväčší pokles vykazuje účtovaná jednotka na krátkodobých pohľadávkach a to pohľadávky voči APVV (účet 346).*** ***V zmysle vydaného stanoviska Ministerstva financií SR zo dňa 23.1.2024 odporučilo verejným výskumným inštitúciám , vzhľadom na následnú konsolidáciu účtovnej závierky, ako subjektov verejnej správy od roku 2024 účtovať záväzky a pohľadávky na ročnej báze. Na základe vydaného stanoviska ÚJ odúčtovala pohľadávky na roky nasledujúcich účtovných období.***

1. Prehľad o významných položkách časového rozlíšenia nákladov budúcich období a príjmov budúcich období



Podrobný prehľad NBO k 31.12.2024

|  |  |  |
| --- | --- | --- |
| **Účet** | **Popis zápisu** | **Celková hodnota** |
| **NBO ostatné** | FP na stravu zamestnávateľ na 1/25 | 2 460,79 |
|  | ZZ-003/dial.známka-SR-01.01.-31.01.2025 | 5,09 |
| **NBO ostatné Celková hodnota** |  | **2 465,88** |
| **NBO predplatné** | DF-020/predpl. časopisu-01.01.-31.05.2025 | 5,17 |
|  | DF-223/predpl. časopisu Vesmír-01.01.-31.12.2025 | 60,70 |
|  | DF-242/predpl. časopisu 21.stor.-01.01.-31.12.2025 | 62,74 |
|  | DF-244/servery-licencia-01.01.-05.12.2025 | 352,90 |
|  | DF-245/licencia na softvér-01.01.-30.11.2027 | 5 917,56 |
|  | DF-245/licencia na softvér-01.01.-31.12.2025 | 6 466,80 |
|  | DF-245/licencia na softvér-01.01.-31.12.2026 | 6 466,80 |
|  | DF-276/licencia Adobe a Acrobat-01.01.-10.12.2025 | 1 886,44 |
|  | DFzahr.-011/licencie Metlab-01.01.-31.12.2025 | 1 755,71 |
| **NBO predplatné Celková hodnota** |  | **22 974,82** |
| **NBO predplatné poistné** | OZ-002/celoroč.cest.poistenie-01.01.-05.02.2025 | 4,43 |
|  | OZ-008/celoroč.cest.poistenie1.1.25-22.05.25 | 19,96 |
|  | OZ-024/poistenie auta-01.01.-08.09.2025 | 164,43 |
|  | OZ-025/poistenie auta-01.01.-21.09.2025 | 643,61 |
|  | OZ-027/celoroč.cest.poistenie.01.01.-31.08.2025 | 23,30 |
|  | OZ-030/poistenie majetku-01.01.-11.12.2025 | 95,03 |
|  | OZ-031/poistenie majetku-01.01.-11.12.2025 | 62,75 |
|  | OZ-032/poistenie majetku-01.01.-11.12.2025 | 63,35 |
|  | OZ-033/poistenie majetku-01.01.-11.12.2025 | 63,35 |
| **NBO predplatné poistné Celková hodnota** | | **1 140,21** |
| **NBO predplatné zahraničie** | DFzahr.-006/program Grammarly-01.01.-31.12.2025 | 2 356,49 |
|  | ZZ-009/licencia Latech-01.01.-24.02.2025 | 32,19 |
|  | ZZ-040/licencia Ubuntu PRO-. 1.1.2025-05.05.2025 | 88,87 |
|  | ZZ-061/predplatné na ZOOM-01.01.-15.06.2025 | 88,31 |
|  | ZZ-183/členské SIAM 2025 | 228,05 |
|  | ZZ-183/prístup do databáz 2025 | 939,90 |
| **NBO predplatné zahraničie Celková hodnota** | | **3 733,81** |
| **Celkový súčet** |  | **30 314,72** |

1. Opis a výška zmien vlastného imania v priebehu bežného účtovného obdobia podľa položiek súvahy.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Stav na začiatku bežného účtovného obdobia** | **Prírastky**  **(+)** | **Úbytky**  **(-)** | **Presuny**  **(+, -)** | **Stav na konci bežného účtovného obdobia** |
| **Výsledok hospodárenia** | | | | | |
| Nevysporiadaný výsledok hospodárenia minulých rokov | 15 048,76 |  |  | 6 322,97 | 21 371,73 |
| Výsledok hospodárenia účtovného obdobia | 6 322,97 | 16 912,28 |  | -6 322,97 | 16 912,28 |

1. Opis a vyčíslenie jednotlivých druhov fondov tvorených podľa osobitných predpisov **ÚJ v roku 2024 netvorila fondy.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Opis fondov tvorených podľa osobitných predpisov** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Prírastky** | **Úbytky** | **Stav na konci bežného účtovného obdobia** |
|  |  |  |  |  |

1. Informácia o rozdelení účtovného zisku alebo o vysporiadaní účtovnej straty za bezprostredne predchádzajúce účtovné obdobie.

* **Účtovná jednotka zisk vykázaný za predchádzajúce obdobie vo výške 6 223,85 € presunula n a účet 428-nevysporiadaný výsledok hospodárenia minulých rokov**

1. Údaje o jednotlivých druhoch rezerv v členení na stav rezerv na konci bezprostredne predchádzajúceho účtovného obdobia a stav rezerv na konci bežného účtovného obdobia, ich tvorbu, použitie alebo zrušenie v priebehu bežného účtovného obdobia.

* **Účtovná jednotka neúčtuje o rezervách**

1. Údaje o významných sumách záväzkov v nadväznosti na položky súvahy, v členení na záväzky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť.

|  |  |  |
| --- | --- | --- |
| **Druh a opis významných položiek záväzkov** | **Hlavná nezdaňovaná činnosť** | **Zdaňovaná činnosť** |
| Záväzky z obchodného styku | 2 553,57 | - |
| Záväzky voči zamestnancom | 13,10 | - |
| Ostatné záväzky – krátkodobé – Slovak Telecom Zmluvy | 1 689,00 | - |
| Záväzky zo sociálneho fondu | 2 333,96 | - |

1. Prehľad záväzkov do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

|  |  |  |
| --- | --- | --- |
| **Záväzky** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| - do uplynutia lehoty splatnosti | 31 709,10 | 6 589,63 |
| - po uplynutí lehoty splatnosti | - | - |
| **Spolu** | **31 709,10** | **6 589,63** |

1. Prehľad o začiatočnom stave, tvorbe, čerpaní a konečnom zostatku sociálneho fondu v priebehu bežného účtovného obdobia.

|  |  |
| --- | --- |
| **Sociálny fond** | **Suma** |
| **Stav k prvému dňu bežného účtovného obdobia** | **1 674,37** |
| Tvorba na ťarchu nákladov | 15 196,85 |
| Tvorba zo zisku | - |
| Čerpanie | 14 537,26 |
| **Stav k poslednému dňu bežného účtovného obdobia** | **2 333,96** |

1. Prehľad o bankových úveroch, pôžičkách a návratných finančných výpomociach s uvedením meny.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Druh cudzieho zdroja** | **Mena** | **Výška úroku v %** | **Splatnosť** | **Forma zabezpečenia** | **Suma istiny na konci bežného účtovného obdobia** |
| Krátkodobý bankový úver | - | - | - | - | - |
| Pôžička | - | - | - | - | - |
| Návratná finančná výpomoc | - | - | - | - | - |
| Dlhodobý bankový úver | - | - | - | - | - |
| **Spolu** | **-** | **-** | **-** | **-** | **-** |

* ***Účtovnej jednotke neboli poskytnuté - úver, pôžička a ani žiadna finančná návratná výpomoc.***

1. Prehľad o významných položkách časového rozlíšenia výdavkov budúcich období.

* ***Účtovná jednotka neúčtovala výdavky budúcich období.***

1. Prehľad výnosov budúcich období v členení podľa jednotlivých druhov a v členení na dlhodobé výnosy budúcich období a krátkodobé výnosy budúcich období.

|  |  |  |
| --- | --- | --- |
| **Položky výnosov budúcich období - dlhodobé z dôvodu** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| dlhodobého majetku obstaraného z verejných zdrojov | 80 944,63 | 48 829,39 |
| dlhodobého majetku obstaraného z finančného daru | - | - |
| dlhodobého majetku obstaraného z podielu zaplatenej dane | - | - |
| dlhodobého majetku obstaraného zo sponzorského | - | - |
| nepoužitého sponzorského | - | - |
| dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie | 66 343,00 | 0,00 |
| **Spolu** | **147 287,63** | **147 287,63** |

* Dlhodobé výnosy budúcich období:

*v sume* ***66 343,00 eur*** *- zostatková cena majetku obstaraného z transferov ŠR na kapitálové výdavky.*

*v sume* ***0,00 eur*** *– odúčtovanie dotácií vyplývajúcich z APVV zmlúv - prísľuby na roky 2025-2026.*

|  |  |  |
| --- | --- | --- |
| **Položky výnosov budúcich období - krátkodobé z dôvodu** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| dotácie zo štátneho rozpočtu a  z prostriedkov Európskej únie | 301 996,75 | 416 125,67 |
| iné | 666,72 | 0,00 |
| **Spolu** | **302 663,47** | **416 125,67** |

* Krátkodobé výnosy k dotáciám zo ŠR–Zmluva IFP SAV a Výkonnostná zmluva SAV v sume **39 138,29 eur.**

Z toho:

* *prijatý bežný transfer v r. 2024 nepoužitý – zostatok nepoužitých FP v sume 29 159,22 eur*
* *prijatý bežný transfer v r. 2024 nespotrebovaný do výnosov (VBO k NBO) v sume 9 989,07 eur*
* Krátkodobé výnosy budúcich období k dotáciám ŠR – dotácie z plánu obnovy v sume **186 987,30 eur.**

Z toho:

* *prijatý bežný transfer v r. 2024 nepoužitý – zostatok nepoužitých FP v sume 186 987,30 eur*
* Krátkodobé výnosy budúcich období k dotáciám EÚ a ŠR – v sume **190 000,08 eur**.

Z toho:

* *prijatý bežný transfer nepoužitý - projekt KVANT – zostatok nepoužitých FP v sume 12 327,08 eur*
* *prijatý bežný transfer nepoužitý - projekt ZDRAVIE – zostatok nepoužitých FP v sume 12 580,78 eur*
* *prijatý bežný transfer nepoužitý - projekt InoCHF – zostatok nepoužitých FP v sume 165 098,22 eur*

1. Údaje o druhoch majetku a záväzkoch z lízingových zmlúv.

* ***Účtovná jednotka neúčtovala o záväzkoch z lízingových zmlúv***

**Čl. IV**

**Informácie, ktoré dopĺňajú a vysvetľujú údaje vo výkaze ziskov a strát**

1. Prehľad tržieb za vlastné výkony a tovar s uvedením ich opisu a vyčíslením hodnoty tržieb podľa jednotlivých hlavných druhov výrobkov, služieb hlavnej nezdaňovanej činnosti a zdaňovanej činnosti účtovnej jednotky za bežné účtovné obdobie.

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| **Druh a opis tržieb** | **Hlavná nezdaňovaná činnosť** | **Zdaňovaná činnosť** |
| Tržby z predaja tovarov a služieb | 32 605,45 |  |
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1. Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, osobitné výnosy, zákonné poplatky a iné ostatné výnosy za bezprostredne predchádzajúce účtovné obdobie a za bežné účtovné obdobie.

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| **Druh a opis významných súm výnosov** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| Ostatné výnosy | 30,80 | 0,00 |
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1. Prehľad významných súm dotácií zo štátneho rozpočtu, štátnych fondov, z prostriedkov Európskej únie, dotácií z rozpočtu obce a z rozpočtu vyššieho územného celku, ktoré účtovná jednotka prijala v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

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| **Druh a opis významných súm dotácií a grantov** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| Dotácie z bežných transferov ŠR (691) | 2 050 999,99 | 2 272 485,30 |
| Prijaté príspevky od právnických osôb (662) | 32 880,00 | 8 220,00 |
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1. Opis a vyčíslenie hodnoty významných položiek príjmov z reklám, ktoré sú určené na charitatívne účely, a charitatívnej lotérie prijatých v  bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

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| **Druh a opis významných položiek charitatívnej reklamy a charitatívnej lotérie** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
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1. Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

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| **Druh a opis významných položiek nákladov** | **Stav na konci bezprostredne predchádzajúceho účtovného obdobia** | **Stav na konci bežného účtovného obdobia** |
| Spotreba materiálu | 125 657,44 | 87 551,21 |
| Spotreba energie | 5 147,28 | 13 585,93 |
| Opravy a udržiavanie | 2 107,55 | 5 811,06 |
| Cestovné | 36 185,21 | 36 650,43 |
| Náklady na reprezentáciu | 406,01 | 674,43 |
| Ostatné služby | 158 433,00 | 118 118,07 |
| Mzdové náklady | 1 251764,69 | 1 387 974,81 |
| Zákonné sociálne poistenie | 417 969,20 | 483 730,57 |
| Ostatné sociálne poistenie | 6 166,80 | 6 166,80 |
| Zákonné sociálne náklady | 44 476,76 | 52 092,75 |
| Ostatné dane a poplatky | 581,00 | 150,18 |
| Zmluvné pokuty a penále | 85,55 |  |
| Ostatné pokuty a penále |  | 14,11 |
| Kurzové straty | 35,83 | 69,23 |
| Iné ostatné náklady /členské, bankové poplatky, vedecká výchova, ostatné poistenie, poistenie dopr. prostriedkov/ | 43 311,09 | 71 693,65 |
| Odpisy dlhodobého hmotného a nehmotného majetku | 33 990,48 | 32 115,24 |
| **SPOLU** | **2 126 317,89** | **2 296 398,47** |

1. Prehľad o účele a výške použitia zostatku prijatého podielu zaplatenej dane v minulých účtovných obdobiach a prijatého podielu zaplatenej dane v bežnom účtovnom období.

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| **Účel použitia prijatého podielu zaplatenej dane** | **Použitá suma zostatku z predchádzajúceho účtovného obdobia** | **Použitá suma z bežného účtovného obdobia** |
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| **Zostatok podielu zaplatenej dane** | |  |

**Čl. V**

**Opis údajov na podsúvahových účtoch**

Významné položky zásob prijatých na komisionálny predaj, prenajatého majetku, majetku prijatého do úschovy, odpísané pohľadávky a prípadné ďalšie položky.

**Čl. VI**

**Ďalšie informácie**

(1) Opis a hodnota iných aktív, ktorými sa rozumie majetok, ktorý vznikol v dôsledku minulých udalostí a ktorého existencia alebo vlastníctvo závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky; týmito inými aktívami sú napríklad práva zo servisných zmlúv, poistných zmlúv, koncesionárskych zmlúv, licenčných zmlúv, práva z investovania prostriedkov získaných oslobodením od dane z príjmov.

***Právo na poistné plnenie – Kooperativa poisťovňa, a. s., Škoda Kodiaq***

-          *poistenie zodpovednosti za škodu spôsobenú prevádzkou motorového vozidla – maximálny limit plnenia z jednej škodovej udalosti v prípade rizika škody na zdraví a nákladov pri usmrtení v sume 5 240 000 eur.*

-          *poistenie zodpovednosti za škodu spôsobenú prevádzkou motorového vozidla – maximálny limit plnenia z jednej škodovej udalosti v prípade rizika vecnej škody, právne zastúpenie a ušlý zisk v sume 1 050 000 eur.*

***Právo na poistné plnenie – Komunálna poisťovňa, a. s.***

-           *havarijné poistenie na Škodu Kodiaq.*

*Poistná suma vrátanie doplnkovej výbavy: 46 955,99 €*

***Právo na poistné plnenie – Allianz - Slovenská poisťovňa, a. s.***

-        *komplexné poistenie majetku pre MÚ SAV, v. v. i. v Bratislave na Štefánikovej 49, na Dúbravskej ceste 9, na Ďumbierskej 1 v Banskej Bystrici, na Grešákovej 6 v Košiciach. Trvanie od 10.11.2010*

***Právo na poistné plnenie – Union poisťovňa, a. s.***

*-celoročné cestovné poistenie zamestnanca - RNDr. Stefan Dobrev, PhD.od 23.5.2023 na dobu neurčitú*

(2) Opis a hodnota iných pasív vyplývajúcich zo súdnych rozhodnutí, z poskytnutých záruk, zo všeobecne záväzných právnych predpisov, z ručenia podľa jednotlivých druhov ručenia; takýmito inými pasívami sú:

a) povinnosť, ktorá vznikla ako dôsledok minulej udalosti a ktorej existencia závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky, alebo

b) povinnosť, ktorá vznikla ako dôsledok minulej udalosti, ale ktorá sa nevykazuje v súvahe, pretože nie je pravdepodobné, že na splnenie tejto povinnosti bude potrebný úbytok ekonomických úžitkov, alebo výška tejto povinnosti sa nedá spoľahlivo oceniť.

(3) Opis významných položiek ostatných finančných povinností, ktoré sa nesledujú v účtovníctve a neuvádzajú sa v súvahe; pri každej položke sa uvádza jej opis, výška a údaj, či sa týka spriaznených osôb, a to

a) povinnosť z devízových termínovaných obchodov a iných finančných derivátov,

b) povinnosť z opčných obchodov,

c) zákonná povinnosť alebo zmluvná povinnosť odobrať určité produkty alebo služby, napríklad z dodávateľských zmlúv alebo odberateľských zmlúv,

d) povinnosť z lízingových zmlúv, nájomných zmlúv, servisných zmlúv, poistných zmlúv, koncesionárskych zmlúv, licenčných zmlúv a podobných zmlúv,

e) iné povinnosti.

* ***Účtovná jednotka neeviduje žiadne ostatné finančné povinnosti.***

(4) Prehľad nehnuteľných kultúrnych pamiatok, ktoré sú v správe alebo vo vlastníctve účtovnej jednotky, a to názov, adresa a číslo kultúrnej pamiatky v Ústrednom zozname pamiatkového fondu.

* ***Účtovná jednotka nemá vo vlastníctve kultúrne pamiatky.***

(5) Informácie o významných skutočnostiach, ktoré nastali medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia.

* ***V období medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia nenastali žiadne významné skutočnosti, ktoré by mali zásadný vplyv na činnosť účtovnej jednotky.***

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

***riaditeľ***

***Matematický ústav SAV v. v. i.***

V Bratislave, dňa 30.6.2025

**Príloha B-2 Správa štatutárneho audítora k ročnej účtovnej uzávierke**

Matematický ústav SAV, v. v. i. má v zmysle zákona č. 243/20217 Z. z. o verejnej výskumnej inštitúcii povinnosť overiť účtovnú závierku raz za 4 roky. V roku 2024 nemala verejná výskumná inštitúcia účtovnú závierku overenú audítorom.