**Matematický ústav SAV, v. v. i.**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2022**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2023

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**1. Základné údaje o organizácii**

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

Organizačné zložky:

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

Detašované pracoviská:

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

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

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

**Vedúci organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

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

Detašované pracoviská:

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

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

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

**Členovia Snemu SAV za organizačné zložky:**   
**Typ organizácie:** Verejná výskumná inštitúcia od roku 2022   
**Vedecká rada MÚ SAV, v. v. i.:**

* 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**

* prof. RNDr. Július Korbaš, CSc. (do 21. 8. 2022)
* doc. RNDr. Viktor Witkovský, CSc.
* prof. RNDr. Pavol Zlatoš, CSc.

**Správna rada MÚ SAV, v. v. i.:**

* prof. RNDr. Anatolij Dvurečenskij, DrSc.
* doc. RNDr. Karol Nemoga, CSc. (predseda)
* doc. Ing. Gabriel Okša, CSc.
* RNDr. Jozef Pócs, PhD.
* RNDr. Tibor Žáčik, CSc.

**Dozorná rada MÚ SAV, v. v. i.:**

* Ing. Ivana Budinská, PhD. (predsedníčka)
* Ing. Romana Jurkiewiczová
* prof. RNDr. Martin Kalina, CSc.

**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** | 75 | 44 | 31 | 6 | 3 | 67 | 45.27 | 32.3 | 1.31 |
| **Vedeckí pracovníci** | 53 | 39 | 14 | 2 | 2 | 47 | 31.66 | 31.2 | 0 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 5 | 4 | 1 | 4 | 1 | 5 | 1.62 | 1.1 | 0 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 4 | 0 | 4 | 0 | 0 | 2 | 3.18 | 0 | 0.71 |
| **Odborní pracovníci ÚS** | 9 | 0 | 9 | 0 | 0 | 9 | 6.12 | 0 | 0.6 |
| **Ostatní pracovníci** | 4 | 1 | 3 | 0 | 0 | 4 | 2.69 | 0 | 0 |

*1 odmeňovaní podľa 553/2003 Z.z., príloha č. 5   
2 odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*   
   
*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2022 (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 31.12.2022 (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 31.12.2022)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 7 | 32 | 8 | 13 | 7 | 13 | 19 |
| **Ženy** | 4 | 11 | 0 | 3 | 4 | 3 | 7 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | | **31-35** | | **36-40** | | **41-45** | | **46-50** | | **51-55** | | **56-60** | | **61-65** | | **> 65** | |
|  | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 0 | 0.0 | 1 | 1.0 | 4 | 3.2 | 4 | 2.5 | 5 | 1.7 | 4 | 4.0 | 2 | 0.1 | 6 | 5.0 | 8 | 5.4 |
| **Ženy** | 2 | 1.0 | 0 | 0.0 | 0 | 0.0 | 7 | 4.9 | 0 | 0.0 | 3 | 2.0 | 1 | 1.0 | 1 | 1.0 | 1 | 0.5 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov / B - Prepočet so zohľadnením úväzkov zamestnancov*   
 Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
| **Muži** | 53.2 | 55.5 | 55.6 |
| **Ženy** | 51.1 | 48.6 | 48.0 |
| **Spolu** | 52.4 | 53.7 | 53.2 |

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

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

V roku 2022 prebehla periodická evaluácia ústavov SAV za roky 2016—2021. V roku 2022 prebehlo tiež Periodické hodnotenie výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti, ktoré organizovalo Ministerstvo školstva, vedy, výskumu a športu SR, kde sa hodnotila publikačná činnosť v oblasti matematiky za roky 2015—2019, podľa ktorého MÚ SAV mal 8 % svetovú úroveň, 32 % významnú svetovú úroveň, 32 % medzinárodnú úroveň a 12 % národnú úroveň. Tým sa zaradilo medzi významné matematické pracoviská SR včítane slovenských univerzít.

Na jar 2022 bola schválená vo Vedeckej rade SAV vedecká hodnosť DrSc. pracovníčky Mgr. Andrey Zemánkovej, PhD, ktorá obhajovala doktorskú dizertačnú prácu začiatkom decembra 2021.

Na jeseň 2022 Mgr. Andrea Zemánková, DrSc. získala VKS I, vedúci vedecký pracovník, a Ing. Irena Jadlovská, PhD, získala VKS IIa, samostatný vedecký pracovník.

Od 1. augusta 2022 nastúpil na MÚ SAV, v. v. i. na 36 mesiacov. Dr. Omid Zahiri, Teherán, Irán, ako štipendista SASPRO II.

Po dvoch rokoch pauzy kvôli epidémii Covid 19 sme mali v rámci Týždňa vedy a techniky aj Deň otvorených dverí.

V r. 2022 sme pokračovali, hoci v mierne obmedzenej miere kvôli epidemickej situácii, v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu. Tento rok pôsobili na ústave dvaja študenti.

Časopisu Mathematica Slovaca sa zvýšil impaktový faktor z IF(2020)=0,770 na IF(2021)=0.996, čím sa dostal do 2. kvartilu v sekcii matematika. päťročný impakt faktor 0,766. V databáze Scopus má časopis SJR(2021) = 0,432, ktorý je mierne znížený oproti SJR(2020) = 0,445 (Scimago Journal Ranking), Cite Score = 1.03 a je v 2. kvartile. Počet zaslaných článkov v r. 2022 bol okolo 750.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR(2021) = 0,230 (Scimago Journal Ranking), Cite Score = 0.47 a je v 4. kvartile**.**

V roku 2019 boli schválené dva projekty OP ŠF: 313011T683 - Matematická podpora kvantových technológií, 313011T634 - Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov. V roku 2022 sa pokračovalo v riešení týchto grantov. V spolupráci s Trnavskou univerzitou a spoločnosťou Merchant, s.r.o. bol získaný nový grant InoCHF - Výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF (ITMS-2014+: NFP313010BWH2).

Bohužiaľ, od začiatku marca 2020 celá spoločnosť bola zasiahnutá epidémiou Covid 19, teda aj Matematický ústav SAV, a museli sa rešpektovať protiepidemiologické opatrenia aj tretí rok. Preto sa nekonali niektoré konferencie, semináre, obhajoby prezenčnou formou, ale sa prešlo do on-line priestoru, mnohí pracovníci podľa potreby využíval tzv. home office. Situácia sa pomaly vracia do normálu.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Domáce projekty riešené v roku 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** | 10 | 3 | 56954 | 56954 | - | - | 3955 | - |
| **2. Projekty APVV** | 2 | 6 | - | - | 57398 | 37127 | - | 24985 |
| **3. Projekty EŠIF/OP ŠF** | 0 | 1 | - | - | - | - | - | - |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 0 | 0 | - | - | - | - | - | - |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 1 | 0 | 26844 | 26844 | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2022

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2022** | - |  |  |
| **2. Projekty výziev EŠIF podané**  **r. 2022** | Bratislava |  |  |
| Regióny |  | 1 |

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2022**

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet** | | **Čerpané financie (€)** | | | | | |
| **A** | **B** | **A** | | | | **B** | |
| **Zo zdrojov SAV** | | **Z iných zdrojov** | | **Zo zdrojov SAV** | **Z iných zdrojov** |
| **Spolu** | **Pre  organi-  záciu** | **Spolu** | **Pre  organi-  záciu** |
| **1. Projekty Horizont 2020 a   Horizont Európa** | 0 | 0 | - | - | - | - | - | - |
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 0 | - | - | - | - | - | - |
| **3. Projekty COST** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty EUREKA, NATO,   UNESCO, CERN, IAEA, IVF,   ERDF a iné** | 0 | 0 | - | - | - | - | - | - |
| **5. Projekty v rámci medzivládnych   dohôd** | 1 | 0 | - | - | 931 | 931 | - | - |
| **6. Bilaterálne projekty MAD,   Mobility, Open Mobility** | 2 | 0 | 1162 | 1162 | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | - | - | - | - | - | - |
| **8. Podpora MVTS z národných   zdrojov okrem 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 2022**

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

|  |  |  |
| --- | --- | --- |
|  | **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 B.*

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

**2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022**

*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**

**Presné podmienky riešiteľnosti nelokálnej okrajovej úlohy pre systémy lineárnych frakcionálnych funkcionálnych diferenciálnych rovníc.**

Zaoberali sme sa presnými podmienkami postačujúcimi pre jednoznačnú riešiteľnosť okrajovej úlohy pre systémy lineárnych frakcionálnych funkcionálnych diferenciálnych rovníc popísaných izotónnymi operátormi. Tieto podmienky sú v niektorom zmysle optimálne. Používali sme metódu testového elementu pre ocenenie spektrálneho polomeru lineárneho operátora. Táto metóda sa vyznačuje tým, že umožňuje odhadnúť spektrálny polomer lineárneho operátora na základe znalosti hodnoty tohto operátora na jedinom, vhodne zvolenom prvku priestoru, v ktorom pracujeme. Obdržané jediné riešenie sa predstavuje Neumannovým radom. Okrem tohto, skúmal sa model typu pantograf.

**Autori:** **N. Dilna** (MÚ SAV, v. v. i.), **M. Fečkan** (MÚ SAV, v. v. i.)

**Projekt**: APVV-18-0308, VEGA 1/0358/20, VEGA 2/0127/20

**Referencia:** N. Dilna, M. Fečkan. Exact solvability conditions for the non-local initial value problem for systems of linear fractional functional differential equations. Mathematics, **10** (10), 1759, (2022) <https://doi.org/10.3390/math10101759>

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**Exact solvability conditions for the non-local initial value problem for systems of linear fractional functional differential equations**

The exact conditions sufficient for the unique solvability of the initial value problem for a system of linear fractional functional differential equations determined by isotone operators are established. In some sense, the conditions obtained are optimal. The method of the test elements intended for the estimation of the spectral radius of a linear operator is used. This method is characterized by the fact that it allows one to estimate the spectral radius of a linear operator based on knowledge of the value of the operator on a single, suitably chosen element of a space. The unique solution is presented by the Neumann's series. A pantograph-type model from electrodynamics is studied.

**Authors: N. Dilna** (MI SAS), **M. Fečkan** (MI SAS).

**Projects:** APVV-18-0308, VEGA 1/0358/20, VEGA 2/0127/20

**Reference:** N. Dilna, M. Fečkan. Exact solvability conditions for the non-local initial value problem for systems of linear fractional functional differential equations. Mathematics, **10** (10), 1759, (2022) <https://doi.org/10.3390/math10101759>

**Štruktúra monotónnych funkcií skonštruovaných pomocou (z-)ordinálneho súčtu.**

Konštrukcia pomocou ordinálnych súčtov je často využívaná metóda na zostrojenie či skúmanie asociatívnych funkcií a je aplikovaná hlavne v prípade veľkého množstva tried monotónnych asociatívnych funkcií. Napriek tomu úplná charakterizácia monotónnych funkcií, ktoré sa dajú skonštruovať pomocou (z-)ordinálneho súčtu dosiaľ chýbala. V našej práci sa podarilo túto úplnú charakterizáciu ukázať ako aj uviesť nutné a postačujúce podmienky, aby takto skonštruovaná funkcia bola monotónna. Tiež sme ukázali, aké typy pologrúp môžeme použiť v (z-)ordinálnom súčte ak chceme, aby výsledná funkcia bola monotónna a v prípade z-ordinálneho súčtu sme pre funkcie spĺňajúce intermediate condition charakterizovali aj príslušné čiastočné usporiadania.

**Autor: A. Zemánková** (MÚ SAV, v. v. i.)

**Projekty:** VEGA 1/0006/19, APVV-20-0069 a program Štipendium SAV.

**Referencie:**

 A. Mesiarová-Zemánková, On the monotonicity of functions constructed via the ordinal sum construction, Fuzzy Sets and Systems (zaslané)

 A. Mesiarová-Zemánková, On the monotonicity of functions constructed via the z-ordinal sum construction, Fuzzy Sets and Systems (zaslané)

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**The structure of monotone functions constructed via (z-)ordinal sum.**

Ordinal sum is a frequently used method for the construction or characterization of associative functions and is mainly applied in the case of a large number of classes of monotone associative functions. Nevertheless, a complete characterization of monotone functions that can be constructed via the (z-)ordinal sum was missing. In our work, we managed to show this complete characterization as well as state the necessary and sufficient conditions for the function constructed in this way to be monotonic. We also showed what types of semigroups we can use in the (z-)ordinal sum if we want the resulting function to be monotonic, and in the case of the z-ordinal sum, we also characterized the corresponding partial orders for functions satisfying the intermediate condition.

**Author:** Andrea Zemánková (MI SAS)

**Projects:** VEGA 1/0006/19, APVV-20-0069 and Program Fellowship of SAS.

**References:**

 A. Mesiarová-Zemánková, On the monotonicity of functions constructed via the ordinal sum construction, Fuzzy Sets and Systems (under review).

 A. Mesiarová-Zemánková, On the monotonicity of functions constructed via the z-ordinal sum construction, Fuzzy Sets and Systems (under review).

**Parametrizácia diskrétnych rozdelení pravdepodobnosti vytvorených parciálnymi sumáciami**

Pre každé diskrétne rozdelenie pravdepodobnosti existuje jedna a práve jedna parciálna sumácia, vzhľadom na ktorú je rozdelenie invariantné. V tejto oblasti boli dosiahnuté nové výsledky pre rozdelenia s jedným parametrom. Ukázali sme, že zmena hodnoty parametra funkcie, ktorou je sumácia definovaná, má za následok rozdelenie jednoparametrických diskrétnych rozdelení do dvoch tried. Prvá z nich obsahuje rozdelenia, ktoré sú voči zmene parametra rezistentné. Na rezistentné rozdelenia nemá zmena hodnota parametra žiadny vplyv a rozdelenie zostáva invariantné. Rozdelenia citlivé na zmenu parametra, ktoré vytvárajú druhú triedu, parciálna sumácia so zmenenou hodnotou parametra transformuje na rozdelenia s dvoma parametrami. Odvodili sme aj nutnú a postačujúcu podmienku rezistencie voči zmene hodnoty parametra.

**Autori: J. Mačutek, G. Wimmer, M. Koščová** (MÚ SAV, v. v. i)

**Projekty:** VEGA 2/0096/21; APVV-21-0216

**Referencia**: **Mačutek, J., Wimmer, G., Koščová, M.** On a parametrization of partial-sums discrete probability distributions. *Mathematics* **10**(14) (2022), 2476.

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**A parametrization of partial-sums discrete probability distributions**

For every discrete probability distribution, there is one and only one partial summation which leaves the distribution unchanged. This invariance property is reconsidered for distributions with one parameter. We show that if we change the parameter value in the function which defines the summation, two families of distributions can be observed. The first of them consists of distributions which are resistant to the change. For these distributions, the change of the parameter is reversed by the normalization constant, and the distributions remain unchanged. The other contains distributions sensitive to the change. Partial summations with the changed parameter value applied to sensitive distributions result in new distributions with two parameters. A necessary and sufficient condition for a distribution to be resistant to the parameter change is presented.

**Authors: J. Mačutek, G. Wimmer, M. Koščová** (MI SAS)

**Projects:** VEGA 2/0096/21; APVV-21-0216

**Reference**: **Mačutek, J., Wimmer, G., Koščová, M.** On a parametrization of partial-sums discrete probability distributions. *Mathematics* **10**(14) (2022), 2476.

**Uzáverové vlastnosti subregulárnych jazykov**

Trieda jazykov je uzavretá na určitú danú operáciu ak výsledný jazyk patrí do danej triedy ak aj operandy operácie do nej patria. Skúmame uzáverové vlastnosti rôznych podtried regulárnych jazykov na základné operácie prieniku, zjednotenia, zreťazenia, k-tej mocniny, pozitívneho uzáveru, hviezdy, zrkadlového obrazu a doplnku. Uvažované boli nasledovné podtriedy:

symetricky definitné jazyky a jej varianty (ľavé ideály, konečne generované ľavé ideály, kombinačné jazyky), dvojstranné kométy a jej varianty (kométy, hviezdy, singletony, konečné jazyky, usporiadané jazyky, bezhviezdové a mocniny separujúce jazyky). Taktiež poskytujeme prehľad podtried konvexných jazykov (triedy ideálových, bez-, a uzavretých jazykov), grupové a jazyky bez zjednotenia. Pre každú dvojicu triedy a operácie poskytujeme odpoveď, či je daná trieda na danú operáciu uzavretá.

**Autori:** **V. Olejár** (MÚ SAV, v. v. i.), A. Szabari (UPJŠ Košice)

**Projekty:** VEGA grants 2/0132/19 and 1/0177/21

**Referencia:** **V. Olejár**, A. Szabari, Closure Properties of Subregular Languages Under Operations, Conference on Machines, Computations and Universality (MCU 2022): Proceedings LNCS **13419**. Springer International Publishing, 2022, 126-142. DOI: doi.org/10.1007/978-3-031-13502-6\_9

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**Closure properties of subregular languages**

A class of languages is closed for a given operation if the resulting language belongs to the given class and the operands of the operation also belong to it. We investigate the closure properties of various subclasses of regular languages for the basic operations of intersection, union, concatenation, k-th power, positive closure, star, mirror image, and complement. The following subclasses were considered: definite symmetric languages and their variants (left ideals, finitely generated left ideals, combinatorial languages), two-sided comets and their variants (comets, stars, singletons, finite languages, ordered languages, starless and power-separating languages). We also provide an overview of subclasses of convex languages (classes of ideal, non-, and closed languages), groups, and languages without unification. For each pair of classes and operation, we provide an answer to whether the given class is closed for the given operation.

**Authors:** **V. Olejár** (MI SAS), A. Szabari (UPJŠ Košice)

**Projects:** VEGA grants 2/0132/19 and 1/0177/21

**Reference:** **V. Olejár**, A. Szabari, Closure Properties of Subregular Languages Under Operations, Conference on Machines, Computations and Universality (MCU 2022): Proceedings LNCS **13419**. Springer International Publishing, 2022, 126-142. DOI: doi.org/10.1007/978-3-031-13502-6\_9

**2.3.2. Výsledky aplikačného typu**

**Konvergencia Zipfovho-Mandelbrotovho rozdelenia ku geometrickému rozdeleniu**

Zipfovo-Mandelbrotovo rozdelenie slúži ako matematický model pre usporiadané početnosti v mnohým oblastiach vedeckého výskumu, vrátane lingvistiky. Mnohé jazykové jednotky, ako napr. slová alebo slovná n-gramy, sa dajú týmto rozdelením dobre modelovať. Ale v niektorých prípadoch, ako napr. pre grafémy v lingvistike alebo pre bohatstvo druhov v biológii, sú parametre Zipfovho-Mandelbrotovho rozdelenia prakticky neinterpretovateľné, pretože ich odhadnuté hodnoty silne závisia od nestavenia presnosti numerických odhadovacích metód (odhadnuté hodnoty parametrov sa v závislosti od zvolenej metódy často líšia rádovo v desiatkach alebo v stovkách). Ukázali sme, že tieto vysoké a nestabilné hodnoty sa dajú vysvetliť konvergenciou ku geometrickému rozdeleniu – oba parametre Zipfovho-Mandelbrotovho rozdelenia rastú do nekonečna, zatiaľ čo ich pomer konverguje ku konštante.

**Autor: J. Mačutek** (MÚ SAV, v. v. i.)

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

**Referencia: J. Mačutek**, Why do parameter values in the Zipf-Mandelbrot distribution sometimes explode? *Journal of Quantitative Linguistics* **29**(4) (2022), 413-424.

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**The Zipf-Mandelbrot distribution converges to the geometric distribution**

The Zipf-Mandelbrot distribution serves as a mathematical model for ranked frequencies in many areas of scientific research, including linguistics. Many linguistic units, like e.g., words or word n-grams, follow this distribution. However, in some cases, such as for graphemes in linguistics or species abundance and diversity data in biology, the parameters of the Zipf-Mandelbrot distribution are virtually uninterpretable, as their values strongly depend on the precision of numerical methods used to estimate them (values from several tens to several hundreds are not uncommon). It is shown in the paper that these values can be explained by the convergence to the geometric distribution, which forces both parameters of the Zipf-Mandelbrot distribution to increase to infinity while their ratio converges to a constant.

**Author: J. Mačutek** (MI SAS)

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

**Reference: J. Mačutek**, Why do parameter values in the Zipf-Mandelbrot distribution sometimes explode? *Journal of Quantitative Linguistics* **29**(4) (2022), 413-424.

**ISO lineárna kalibrácia a neurčitosť merania získaná z výsledkov z kalibrovaného prístroja**

Zaoberali sme sa problémom lineárnej porovnávacej kalibrácie, špeciálnym prípadom lineárnej kalibrácie, kde sú obe veličiny merané s chybami, a analýzou neistoty výsledkov merania získaných pomocou kalibrovaného prístroja. Kalibrácia a merania s kalibrovaným prístrojom sa vykonávajú podľa technickej špecifikácie ISO 28037:2010 na základe približného lineárneho kalibračného modelu a aplikácie zákona šírenia neistoty (LPU) v tomto približnom modeli. Alternatívne sa odhady parametrov kalibračnej priamky, ich štandardné neistoty, intervaly pokrytia a súvisiace rozdelenia pravdepodobnosti získajú pomocou metódy Monte Carlo (MCM) založenej na zákone šírenia rozdelenia (LPD). Tu získame aj rozdelenia pravdepodobnosti a interval pokrytia pre veličiny namerané kalibrovaným prístrojom. Motivovaní štruktúrou modelu tohto konkrétneho príkladu, sme vykonali simulačnú štúdiu, ktorá prezentuje empirické pravdepodobnosti pokrytia intervalov pokrytia ISO a MCM a skúma sa vplyv veľkosti vzorky, t. j. počtu kalibračných bodov v rozsahu merania a rôznych kombinácií neistôt merania. Potvrdzujú sa dobré vlastnosti a platnosť technickej špecifikácie ISO v uvažovanom (obmedzenom) rámci experimentálnych návrhov motivovaných aplikáciou v reálnom svete, s malými neistotami vo vzťahu k rozsahu merania. Tiež upozorňujeme na potenciálne slabiny tejto metódy, ktoré si vyžadujú zvýšenú pozornosť používateľov a zdôrazňujú potrebu ďalšieho výskumu v tejto oblasti.

**Autori:** J. Palenčár, R. Palenčár (STU), M. Chytil (Metrolog. úst.), **G. Wimmer** (MÚ SAV, v. v. i.)**,** G. Wimmer ml., V. Witkovský (ÚM SAV, v. v. i.):

**Projekty:** APVV-21-0216, EGA 2/0096/21, VEGA 1/0687/21, VEGA 2/0023/22, and VEGA 1/0675/22, Operational Programme Integrated Infrastructure 313011BWH2

**Referencia:** J. Palenčár, R. Palenčár, M. Chytil, **G.** **Wimmer,** G. Wimmer, V. Witkovský, ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument, Measurement Science Review. **22** (2022), 293-307.

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**ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument**

We have dealt with the problem of linear comparative calibration, the special case of linear calibration where both quantities are measured with errors, and the uncertainty analysis of measurement results obtained using a calibrated instrument. Calibration and measurements with a calibrated instrument are performed according to the technical specification ISO 28037:2010 based on an approximate linear calibration model and the application of the law of propagation of uncertainty (LPU) in this approximate model. Alternatively, parameter estimates of the calibration line, their standard uncertainties, coverage intervals, and associated probability distributions are obtained using the Monte Carlo Method (MCM) based on the Law of Distribution (LPD). Here we also obtain probability distributions and a coverage interval for quantities measured by a calibrated instrument. Motivated by the model structure of this particular example, we performed a simulation study that presents the empirical coverage probabilities of ISO and MCM coverage intervals and investigates the effect of sample size, i.e. j. number of calibration points in the measurement range and various combinations of measurement uncertainties. The good properties and validity of the ISO technical specification are confirmed in the considered (limited) framework of experimental designs motivated by real-world application, with small uncertainties in relation to the measurement range. We also point out potential weaknesses of this method that require increased attention from users and highlight the need for further research in this area.

**Authors:** J. Palenčár, R. Palenčár (STU), M. Chytil (Metrolog. úst.), **G.** **Wimmer** (MI SAS)**,** G. Wimmer jr., V. Witkovský (IM SAS)

**Projects:** APVV-21-0216, EGA 2/0096/21, VEGA 1/0687/21, VEGA 2/0023/22, VEGA 1/0675/22, Operational Programme Integrated Infrastructure 313011BWH2

**References:** J. Palenčár, R. Palenčár, M. Chytil, **G.** **Wimmer**, G. Wimmer, V. Witkovský, ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument, Measurement Science Review. **22** (2022), 293-307.

**2.3.3. Výsledky na báze medzinárodnej spolupráce**

**Vzťah medzi pozorovateľnými a spektrálnymi rozkladmi**

Meranie v kvantovej mechanike sa modeluje pomocou pozorovateľnej, čo je špeciálny druh sigma-homomorfizmu z Borelovskej algebry B(Rn) do kvantovej štruktúry. Ohraničenie na Borelovské množiny tvaru (-∞,t1) x ... x (-∞,tn) definuje n-rozmernú spektrálny rozklad. Úlohou je ukázať, kedy n-rozmerná spektrálna miera sa dá rozšíriť na n-rozmernú pozorovateľnú. Našli sme riešenia pre k-perfektné MV-algebry a efektové algebry a tiež pre homogénne efektové algebry.

**Autori: A. Dvurečenskij** (MÚ SAV, v. v. i.),D. Lachman (Univ. Palackého, Olomouc)

**Projekty:** APVV**-**16-0073, APVV-20-0069, VEGA No. 2/0142/20

**Referencie:**

 **A. Dvurečenskij**, D. Lachman, n-dimensional observables on k-perfect MV-algebras and effect algebras. I. Characteristic points, Fuzzy Sets and Systems **442** (2022), 1–16. https://doi.org/10.1016/j.fss.2021.05.005

 **A. Dvurečenskij**, D. Lachman, n-dimensional observables on k-perfect MV-algebras and effect algebras. II. One-to-one correspondence, Fuzzy Sets and Systems **42** (2022), 17–42. https://doi.org/10.1016/j.fss.2021.08.027

 **A. Dvurečenskij**, D. Lachman, Homogeneous effect algebras and observables vs spectral resolutions, Inter. J. Theor. Phys. **61** (2022), Art. Num. 214. DOI 10.1007/s10773-022-05185-9

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**Relationship between observables and spectral resolutions**

Measurement in quantum mechanics is modeled using an observable, which is a special kind of sigma-homomorphism from the Borel algebra B(Rn) to the quantum structure. The restriction to Borel sets of the set of the form (-∞,t1) x ... x (-∞,tn) defines an n-dimensional spectral decomposition. The task is to show when an n-dimensional spectral measure can be extended to an n-dimensional observable. We have found solutions for k-perfect MV-algebras and effect algebras and also for homogeneous effect algebras.

**Authors: A. Dvurečenskij (MÚ SAV, v.v.i.),** D. Lachman (Univ. Palackého, Olomouc)

**Projects:** APVV**-**16-0073, APVV-20-0069, VEGA No. 2/0142/20

**References:**

 **A. Dvurečenskij**, D. Lachman, n-dimensional observables on k-perfect MV-algebras and effect algebras. I. Characteristic points, Fuzzy Sets and Systems **442** (2022), 1–16. https://doi.org/10.1016/j.fss.2021.05.005

 **A. Dvurečenskij**, D. Lachman, n-dimensional observables on k-perfect MV-algebras and effect algebras. II. One-to-one correspondence, Fuzzy Sets and Systems **42** (2022), 17–42. https://doi.org/10.1016/j.fss.2021.08.027

 **A. Dvurečenskij**, D. Lachman, Homogeneous effect algebras and observables vs spectral resolutions, Inter. J. Theor. Phys. **61** (2022), Art. Num. 214. DOI 10.1007/s10773-022-05185-9

**Konvergencia blokového Jacobiho SVD algoritmu**

Skúmali sme konvergenciu počítaných veličín ku singulárnym tripletom v sériovom a paralelnom blokovom Jacobiho SVD algoritme s dynamickým usporiadaním subproblémov. Najprv sme eliminovali nulové singulárne čísla danej matice pomocou dvoch konečných transformácií, čím sme docielili, že pôvodne obdĺžniková matica sa transformovala na regulárnu štvorcovú. Potom sme dokázali, že iterovaná matica konverguje k diagonálnej matici, kde na diagonále sú nenulové singulárne čísla pôvodnej matice. Ak sú singulárne čísla danej matice jednoduché, dokázali sme, že matice akumulovaných unitárnych transformácií konvergujú k príslušným ľavým a pravým singulárnym vektorom. Ak je viacnásobné singulárne číslo resp. klaster blízkych singulárnych čísiel dobre oddelený od ostatných singulárnych čísiel, dokázali sme konvergenciu dvoch postupností ortogonálnych projektorov k ortogonálnym projektorom na príslušné ľavé a pravé singulárne podpriestory. Ďalej sme ukázali, že konvergencia ortogonálnych projektorov má za následok konvergenciu určitých vypočítaných podpriestorov ku singulárnym ľavým a pravým podpriestorom, ktoré prislúchajú k danému viacnásobnému singulárnemu číslu resp. klastru. Teoretické výsledky boli ilustrované pomocou príkladu vypočítanom v prostredí MATLAB.

**Autor:** **G. Okša, M. Vajteršic** (MÚ SAV, v. v. i.), Y. Yamamoto (Univ. Electro-Communications, Tokyo)

**Projekt:** VEGA Grant no. 2/0015/20

**Referencia**: G. Okša, Y. Yamamoto, M. Vajteršic: Convergence to Singular Triplets in the Two-Sided Block-Jacobi SVD Algorithm with Dynamic Ordering, SIAM J. Matrix Anal. Appl., **43** (2022), 1238–1262.

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**Converegence of the block Jacobi SVD algorithm**

We have studied the convergence of computed quantities to singular triplets in the serial and parallel block-Jacobi SVD algorithm with dynamic ordering. After eliminating possible zero singular values by two finite decompositions of a rectangular matrix, which reduce it to the square one, it is shown that an iterated non-singular matrix converges to a fixed diagonal matrix, and its diagonal elements are the singular values of an initial matrix $A$. For the case of simple singular values, it is proved that the corresponding columns of the matrices of accumulated unitary transformations converge to corresponding left and right singular vectors. When a multiple singular value (or a cluster of singular values) is well separated from the other singular values, the convergence of two sequences of appropriate orthogonal projectors towards the orthogonal projectors onto the corresponding left and right subspaces is proved. Additionally, the convergence of orthogonal projectors leads to the convergence of certain computed subspaces towards the singular left, and right subspaces spanned by left and right singular vectors corresponding to a multiple singular value or a cluster. An example computed in MATLAB illustrated the developed theory.

**Authors:** **G. Okša, M. Vajteršic** (MI SAS), Y. Yamamoto (Univ. Electro-Communications, Tokyo)

**Project:** VEGA Grant no. 2/0015/20

**Reference:** G. Okša, Y. Yamamoto, M. Vajteršic: Convergence to Singular Triplets in the Two-Sided Block-Jacobi SVD Algorithm with Dynamic Ordering, SIAM J. Matrix Anal. Appl., **43** (2022), 1238-1262.

**Sugenovský integrál na ohraničených zväzoch**

Diskrétny Sugenov integrál na ohraničenom distributívnom zväze L je definovaný ako idempotentný zväzový polynóm. Ďalšou z možností ako algebraicky axiomatizovať Sugenov integrál, je považovať ho za kompatibilnú agregačnú funkciu, ktorá jednoznačne rozširuje danú L-hodnotovú fuzzy mieru (L-kapacitu). Cieľom tohto článku je študovať spomínanú vlastnosť jednoznačnej rozšíriteľnosti. Je dokázané, že táto vlastnosť je ekvivalentná s distributivitou ohraničeného zväzu L. Ako jeden z výsledkov je tiež ukázaná opačná implikácia Stoneovej vety (tzv. Isékiho veta), t.j. ak vo zväze je možné každé dva prvky separovať prvoideálom, potom tento zväz je distributívny.

**Autori**: **J. Pócs** (MÚ SAV, v. v. i.), J. Pócsová (TU Košice), R. Halaš (Palacký univ, Olomouc)

**Projekt:** APVV-20-0069, APVV-18-0526, VEGA Grant 2/0097/20, VEGA 1/0365/19

**Referencia:** R. Halaš, **J. Pócs,** J. Pócsová: Remarks on Sugeno integrals on bounded lattices, Mathematics **10**(17), (2022), 3078; https://doi.org/10.3390/math10173078

—

**Discrete Sugeno integral on bounded lattices**

A discrete Sugeno integral on a bounded distributive union L is defined as an idempotent union polynomial. Another possibility to algebraically axiomatize Sugeno's integral is to consider it as a compatible aggregation function that uniquely extends a given L-valued fuzzy measure (L-capacity). The aim of this article is to study the mentioned property of unambiguous extensibility. It is proved that this property is equivalent to the distributivity of the bounded union L. As one of the results, the opposite implication of Stone's theorem (the so-called Iséki theorem) is also shown, i.e. if in the union every two elements can be separated by a prime ideal, then this union is distributive.

**Authors**: **J. Pócs** (MI SAS), J. Pócsová (TU Košice), R. Halaš (Palacký univ, Olomouc)

**Projects:** APVV-20-0069, APVV-18-0526, VEGA Grant 2/0097/20, VEGA 1/0365/19

**Reference:** R. Halaš, **J. Pócs,** J. Pócsová: Remarks on Sugeno integrals on bounded lattices, Mathematics **10**(17), (2022), 3078; https://doi.org/10.3390/math10173078

**2.4. Publikačná činnosť** (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2022/ doplnky z r. 2021** |
| **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) | **0 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané   v domácich vydavateľstvách** (BAB, ACB, CAB) | **1 / 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) | **51 / 4** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **27 / 2** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **1 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **7 / 2** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **0 / 1** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **5 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **1 / 1** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** |
| **18. Ostatné vydané periodiká** | **0** |
| **19. Zostavovateľské práce knižného charakteru**   (FAI) | **1 / 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. 2021 (zdroj JCR)**   *Počet článkov / doplnky* | 30 / 0 | 18 / 1 | 16 / 4 | 4 / 1 | 68 / 6 |
| **Podľa SJR z r. 2021 (zdroj Scimago)**   *Počet článkov / doplnky* | 19 / 2 | 37 / 4 | 17 / 0 | 5 / 0 | 78 / 6 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2021/ doplnky z r. 2020** |
| **Citácie vo WOS (1.1, 2.1)** | 984 / 47 |
| **Citácie v SCOPUS (1.2, 2.2)** | 180 / 6 |
| **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)** | 32 / 3 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 |

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 36 |
| **Prednášky a vývesky na národných vedeckých podujatiach** | 6 |

**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, I. Jadlovská, G. Jirásková, J. Pócs, M. Repický, V. Olejár

**Účasť:** P. Mlynárčik

**Seminár z kvantových logík**

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

**Poznámka:** Pre nepriaznivú situáciu ohľadom COVID-19 nebol seminár aktívny.

**Set-Valued Analysis**

**Vedúci:** Ľ. Holá

**Účasť:** Ľ. Holá, B. Novotný, F. Čapka

**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:** M. Repický (2x)

**Účasť:** P. Eliaš

**Seminár Fuzzy a neurčitosť na PF UPJŠ**

**Vedúci:** Ľ. Antoni (PF UPJŠ)

**Referáty:** P. Eliaš

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

**Vedúci:** T. Macko

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

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

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

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

**Seminár z kvalitatívnej teórie diferenciálnych rovníc,**

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

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

**Referáty:** I. Jadlovská (3x)

**Seminár z matematickej štatistiky na FMFI UK**

**Vedúci:** A. Pázman (FMFI UK)

**Referáty:** A. Jenčová

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

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

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

**Účasť:** E. Halušková

**Poznámka:** Konal sa online.

**RCQI seminár**

**Vedúci:** M. Sedlák (FÚ SAV)

**Účasť:** A. Jenčová

**Poznámka:** Prebiehal online formou.

**Seminár z teoretickej informatiky na UPJŠ**

**Vedúci:** V. Geffert (UPJŠ)

**Referáty:** V. Olejár

**Drakhlin's seminar on Functional Differential Equations**

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

**Referáty:** I. Jadlovská

**Poznámka:** Prebiehal online formou.

**Seminár z kryptológie na FEI STU**

**Vedúci:** O. Grošek

**Účasť:** K. Nemoga, J. R. Dora, P. Sýs

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

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

**Účasť:** K. Nemoga, J. R. Dora, P. Sýs

**2.6. Vyžiadané prednášky**

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

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

 **JENČOVÁ, A.**: *On characterizations of quantum incompatibility and steering*, Third Kyoto Workshop on Quantum Information, Computation, and Foundations, Kyoto University (online), 17.-21.10. 2022

 **PAPČO, M.**: *Probability theory in perspective by Roman Frič,* 36th International Summer Conference on Real Functions Theory, Stará Lesná, 11-16. 9. 2022

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

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

 **HAVIAR, M.**: *Dualities for bilattices and their applications*, FG1 Seminar, Inst. Math. TU Vienna, Rakúsko, 10. 6. 2022

 **JENČOVÁ, A.**: *Assemblages and steering in GPTs*, Universität Siegen, Germany, Nonlocal Seminar on Quantum Steering (online seminar), 24. 6. 2022

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

 **AGU, F. I.**—SZŰCS, G.—**MAČUTEK, J.**: *Parameter estimates of the Schr*ö*ter family of discrete probability distributions*, 45th Annual Conference of the Nigerian Statistical Association, Keffi, Nigéria, 23. 9.–1. 10. 2022

 **ČUNDERLÍKOVÁ, K.**: *Convergence of functions of several intuitionistic fuzzy observables,* IWIFSGN'2022, Varšava, Poľsko, 14. 10. 2022 (online)

 **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and convergence of intuitionistic fuzzy observables,* Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 2.12.2022 (online)

 **ČUNDERLÍKOVÁ, K.**— **BABICOVÁ, D.**: *Convergence in measure of intuitionistic fuzzy observables,* ICIFS'2022, Sofia, Bulharsko, 9.–10. 9. 2022

 **DILNA, N.**: *Exact solvability conditions for the model with a discrete memory effect,* International Conference on Mathematical Analysis and Applications in Science and Engineering, ICMA2SC'22, Porto, Portugal, 27.–29. 6.2022

 **DILNA, N.**: *D-stability of the initial value problem for symmetric nonlinear functional differential equations,* Conference on Differential Equations and Their Applications, Equadiff 15, Brno, Czech Republic, 11.–15. 7. 2022

 **ELIAŠ, P.**: *Some questions and counter-examples in measure theory motivated by categorical probability,* 36th International Summer Conference on Real Functions Theory, Stará Lesná, 11.–16. 9. 2022

 HALAŠ. R.—**PÓCS, J.**: *On number of aggregation functions on finite chains,* FSTA 2022, Liptovský Ján, 30. 1.–4. 2. 2022

 **HALUŠKOVÁ, E.**— JASTRZEBSKA, M.: *On algebras with easy direct limits*, SSAOS 2022, Tatranská Lomnica, 28. 8.–2.9.2022

 **HOLÁ, Ľ.**—HOLÝ, D.—**NOVOTNÝ, B.**: *Spaces of minimal usco and minimal cusco maps as Fréchet topological vector spaces, Analysis,* Topology and Applications 2022, Vrnjačka Banja, 29. 6.–2. 7. 2022

 **HOLÁ, Ľ.**—HOLÝ, D.—**NOVOTNÝ, B.**: *Spaces of minimal usco and minimal cusco maps as Fréchet topological vector spaces,* 36th International Summer Conference on Real Functions Theory, Stará Lesná, 11.–16. 9. 2022

 **HOSPODÁR, M.**— **MLYNÁRČIK, P.**— **OLEJÁR, V.**: *Operations on subregular languages and nondeterministic state complexity,* DCFS '22, Debrecen, 29.–31. 8. 2022

 IGLESIAS-REY, S.—**PAPČO, M.**—BUSTINCE, H.—LOPEZ-MOLINA, C.: *Moderate Deviation Functions as Comparison Operators in Anisotropic Diffusion*, 16th International Conference on Fuzzy Set Theory and Applications (FSTA 2022), Liptovský Ján, 30. 1.–4. 2. 2022.

 **JADLOVSKÁ, I.**: *Kneser oscillation theorem for second-order half-linear delay differential equations,* Equadiff 15, Brno, 11.–15. 7. 2022

 **JADLOVSKÁ, I.**: *Kneser-type oscillation criteria for second-order delay differential equations with several neutral terms*, ICNAAM 2022, Heraklion, Crete, 19.–25. 9. 2022

 **JADLOVSKÁ, I.**: *Oscillation criteria for second-order half-linear neutral functional differential equations,* ICMAASE, Porto, Portugal, 27.–29. 6. 2022

 **JENČOVÁ, A.**— **PULMANNOVÁ, S.**: *Spectral resolutions in effect algebras,* 15th Biennial IQSA conference (IQSA 2022), Tropea, Taliansko, 27. 6.–2. 7. 2022

 **JENČOVÁ, A.**— **PULMANNOVÁ, S.**: *Spectral resolutions in effect algebras,* SSAOS 2022, Tatranská Lomnica, 28. 8.–2. 9. 2022

 **MAČUTEK, J.**—KOSEK, R.—NAVRÁTILOVÁ, O.: *On the Development of the Position of Czech Enclitic Pronoun mi in Czech Bibles from the 14th to 21st Century*, Diachronic Slavonic Syntax 5, Brno, ČR, 22.–24. 6. 2022

 **MAČUTEK, J.**—ČECH, R.—**KOŠČOVÁ, M.**: *Does an author leave a syntactic footprint?*, 16th International Conference on Statistical Analysis of Textual Data (JADT 2022), Neapol, Taliansko, 5.–9. 7. 2022.

 **MAČUTEK, J.**—PELEGRINOVÁ, K.—ČECH, R.: Menzerathův-Altmannův zákon a segmentace jazykových jednotek, Seminári Českého národného korpusu, Praha, ČR,   
9.–10. 5. 2022.

 **MAČUTEK, J.**—ČECH, R.: *Most Frequent Words as a Tool for Authorship Recognition*, Authorial Style, Its Analysis, and Limits of Automatic Recognition, Praha, ČR, 26.-28. 9. 2022.

 **MAČUTEK, J.**—**AGU, F. I.**—SZŰCS, G.: *Parameter estimates of the Schröter family of discrete probability distributions*, ROBUST 2022, Volyně, ČR, 14.–17. 6. 2022.

 **MAČUTEK, J.**—**KOŠČOVÁ, M.**: *Evaluating goodness-of-fit of mathematical models in linguistics*, Summer Workshop for Statistics in Linguistics, Trojanovice, ČR,   
18.–22. 7. 2022

 **NEMOGA, K.**: *Lattice-based cryptography*, Secure Communication in the Quantum Era (project meeting), Madrid, Španielsko, 18.–21. 5. 2022

 **PAPČO, M.**: *On divisible extension of probability,* 15th Biennial IQSA conference (IQSA 2022), Tropea, Italy, 27. 6.–2. 7. 2022

 **OKŠA, G.**— **BEČKA, M.**: *On Relative Accuracy of the One-Sided Block-Jacobi SVD algorithm,* PPAM 2022, Gdansk, Poland, 11.–14. 9. 2022

 **SÝS, P.**: *Practical runtime verification of Quantum-Future GAKE Protocol*, Central European Conference on Cryptology (CECC '22), Smolenice, 26.–29. 6. 2022

 **ŠUCH, O.—**FABRICIUS, R.— TARÁBEK, P.: *Introducing Students to Out-Of-Distribution Detection with Deep Neural Networks* (poster), 20th Anniversary of International Conference on Emerging eLearning Technologies and Applications (ICETA 2022), Starý Smokovec, 26.–27. 10. 2022

 **WIMMER, G.**— WITKOVSKÝ, V.: *Lineárny model v prípade nie normálnych rozdelení meraní,* ROBUST 2022, Volyně, ČR, 12.–17. 6. 2022

 WITKOVSKÝ, V.— **WIMMER, G.**: *Comparison of Alternative Measurement Uncertainty Matrices for Parameters of the Straight-Line Calibration Function,* Uncertainty of Measurement: Scientific, Applied, Regulatory and Methodical Aspects (UM-2022), Ukrajina, 7.–8. 12. 2022 (online)

 WITKOVSKÝ, V.— **WIMMER, G.**: *A note on computing the exact distribution of the bootstrap mean*, ROBUST 2022, Volyně, ČR, 12.–17. 6. 2022

 WITKOVSKÝ, V.— **WIMMER, G.**: *Linear Calibration Methods and the Measurement Uncertainty: Comparison of the Empirical Coverage Probabilities,* MATHMET 2022, Paríž, 2.–4. 11. 2022

 **ZEMÁNKOVÁ, A.***: On the cardinality of the branching set in the z-ordinal sum construction,* 16th International Conference on Fuzzy Set Theory and Applications (FSTA 2022), Liptovský Ján, 30. 1. – 4. 2. 2022

**2.6.5. Prednášky na domácich vedeckých podujatiach**

 **HALUŠKA, J.**: *Matematický pohľad na menzúry v kontexte organov Gemera,* Kultúrne dedičstvo Gemera a Malohontu a jeho sprístupňovanie X.*,* Revúca, 13.–14. 9. 2022

 **HALUŠKOVÁ, E.**: *O diskrétnych vlastnostiach niektorých reálnych funkcií*, 52.Konferencia slovenských matematikov, Dolný Kubín, 29. 4.–1. 5. 2022

 **KARABÁŠ, J.**: *Generation and testing of snarks*, 5. stretnutie riešiteľov projektu Výnimočné štruktúry v diskrétnej matematike (APVV-19-0308), Modra, 23.–26. 5. 2022

 **MAČUTEK, J.**: *Aplikácie matematickej štatistiky v lingvistike*, Nitrianske štatistické dni, Nitra, 29. 11. 2022

 **NEDELA, R.:** *Jacobian of a graph and graph automorphisms,* 5. stretnutie riešiteľov projektu Výnimočné štruktúry v diskrétnej matematike (APVV-19-0308), Modra,   
23.–26. 5. 2022

 **SÝS. P.**: *Practical runtime verification of quantum-future communication software*, Kvantové rendezvous, Smolenice, 29. 6.– 1. 7. 2022

**2.6.6. Prednášky na významných vedeckých inštitúciách**

**2.6.7. Ostatné prednášky**

 MATUŠKO, J.—**NEMOGA, K.**: *Review and Evaluation of SPS Activities,* Zagreb Conference on NATO SPS Scientific Programme, Zagreb, Croatia (online), 8. 4. 2022

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022**

**2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent**

**a) na Slovensku**

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2022**

**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 2022**

**b) udelené v roku 2022**

**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 2022 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** |
| Nedela Roman | KEGA | 1 |
| Wimmer Gejza | KEGA | 2 |
|  | VEGA | 2 |

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

Počet autorov hesiel: 0   
   
**2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch**   
   
Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Meno pracovníka** | **Ved. monografie** | | **Príspevky v časopisoch** | | | **Zborníky** | |
| **Domáce** | **Zahra-  ničné** | **WoS, SCOPUS** | **Iné databázy** | **Ostatné** | **Domáce** | **Zahra-  ničné** |
| Čunderlíková Katarína | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Dilna Natália | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| Dvurečenskij Anatolij | 0 | 0 | 4 | 2 | 0 | 0 | 0 |
| Fečkan Michal | 0 | 0 | 16 | 0 | 0 | 0 | 0 |
| Halušková Emília | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Holá Ľubica | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Hospodár Michal | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Hyčko Marek | 0 | 0 | 19 | 11 | 0 | 0 | 0 |
| Jadlovská Irena | 0 | 0 | 20 | 0 | 0 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Jirásková Galina | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Macko Tibor | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Mačutek Ján | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Novotný Branislav | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Plávalová Eva | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Pócs Jozef | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Pospíšil Michal | 0 | 0 | 2 | 3 | 0 | 0 | 0 |
| Pulmannová Sylvia | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Zemánková Andrea | 0 | 0 | 21 | 0 | 0 | 0 | 0 |
| **Spolu** | **0** | **0** | **122** | **16** | **1** | **0** | **3** |

**2.11. Iné informácie k vedeckej činnosti.**

Ostatné dosiahnuté výsledky:

 Študovali sme relatívnu presnosť singulárnych čísel jednostrannej blokovej Jacobiho metódy na výpočet SVD s použitím nami vyvinutého algoritmu (dynamický ordering úloh a zrýchľujúce predspracovanie). Ukázali sme, že relatívna presnosť je lepšia ako je pre štandardný algoritmus pre SVD založený na bidiagonalizácii, avšak zhoršuje sa s rastom čísla podmienenosti.

 Definovali sme konvergenciu podľa miery pre intuitionistické fuzzy pozorovateľné použitím intuitionistických fuzzy stavov a formulovali sme Slabý zákon veľkých čísel.

 Ukázali sme súvislosť medzi konvergenciou postupnosti intuitionistických fuzzy pozorovateľných a konvergenciou náhodných premenných v súvislosti s intuitionistickým fuzzy stavom a v súvislosti s intuitionisticky fuzzy pravdepodobnosťou.

 Definovali sme konvergenciu podľa miery, konvergenciu podľa distribučnej funkcie a konvergenciu skoro všade pre intuitionistické fuzzy pozorovateľné použitím intuitionisticky fuzzy pravdepodobnosti. Formulovali sme Centrálnu limitnú vetu, Slabý zákon veľkých čísel a Silný zákon veľkých čísel pre nezávislé intuitionistické fuzzy pozorovateľné s použitím intuitionistickej fuzzy pravdepodobnosti.

 S pomocou Krasnoselského vety sme získali všeobecne podmienky pre jednoznačnú riešiteľnosť okrajovej úlohy pre (ne)lineárne funkcionálne diferenciálne rovnice racionálneho radu.

 Zaoberali sme sa D-stabilitou jediného riešenia pre model struny Stiltjesa spojený s funkcionálnymi diferenciálnymi rovnicami s nelokálnymi počiatočnými podmienkami.

 Študovala sa kategoriálna ekvivalencia slabých pseudo EMV-algebrier so špeciálnou kategóriou pseudo MV-algebier fixných maximálnym a normálnym ideálom respektíve so špeciálnou kategóriou unitálnych grúp.

 Študovala sa Pierceovská sheaf reprezentácia pseudo EMV-algebier, ktoré sú nekomutatívne zovšeobecnenia MV-algebier, pseudo MV-algebier a zovšeobecnených Booleových algebier, takže existencia top elementu sa nepredpokladá. Našli sme reprezentáciu Booleovského typu a hlavné výsledky sa týkajú Hausdorffskej reprezentácie pseudo EMV-algebier.

 Nedávno sme zaviedli nové algebry, zvané slabé pseudo EMV-algebry. Pre túto triedu algebier definovali sme pojem stavu ako konečne aditívne zobrazenie z danej algebry do reálneho intervalu [0, 1], ktoré zachováva adíciu dvoch a neinteragujúcich prvkov a nadobúdajúce hodnotu 1 v niektorom prvku. Môže sa stať, že dokonca v niektorých komutatívnych wPEMV-algebrách stav neexistuje. Študovali sme základné vlastnosti stavov a stavových-morfizmov, čo sú wPEMV-algebraické homomorfizmy do reálneho intervalu [0, 1] vybaveného wPEMV-štruktúrou. Ukázali sme, že existuje jedno-jedno značný vzťah medzi množinou stavových-morfizmov a množinou maximálnych a normálnych ideálov so špeciálnou vlastnosťou.

 Ukázali sme analógiu Kreinovej-Milmanovej vety aplikovanej na množinu stavov. Charakterizovali sme množinu stavových morfizmov wPEMV-algebry bez top prvku ako Haudorffov lokálne kompaktný priestor v slabej topológii stavov a predložili sme jej Alexandrovskú jedno-prvkovú kompaktifikáciu. Okrem toho, našli sme integrálnu reprezentáciu každého (konečne aditívneho) stavu pomocou jedinej regulárnej Borelovskej σ-aditívnej pravdepodobnostnej miery.

 Študovali sme súčinové Galoisove konexie medzi súčinmi úplných zväzov. Popísali sme heterogénne formálne kontexty ako súčinové Galoisove konexie a študovali sme ich rozklady na súčiny formálnych kontextov.

 Skúmal sa (1) organový zvuk ako usporiadaná Hilbertova vektorová algebra Fourierových radov (tónov) nad reálnymi číslami v jednom registri. Operácie sčítania a násobenia boli odvodené z kvintového kruhu, (2) dve usporiadania - lineárne, kvintový kruh, (3) podalgebry a invertibilné prvky, (4) 6 typov zovšeobecnených komplexných eliptických čísel, (5) rovnaký timbre tónov v jednom registri, (6) organový zvuk množiny registrov píšťal s konštantnou menzúrou je lineárna varieta nad reálnymi číslami asociovaná s principálovým registrom.

 V rámci teórie automatov sme sa zaoberali binárnou operáciou pravého kvocientu permutačných deterministických konečných automatov. Popísali sme niekoľko podmienok, kedy výsledkom tejto operácie je automat ekvivalentný s jednostavovým deterministickým konečným automatom.

 Študovali sme topológie rovnomernej konvergencie na bornológiach na priestore minimálnych usco a minimálnych cusco zobrazení. Našli sme postačujúce podmienky pre metrizovateľnosť a úplnú metrizovateľnosť týchto priestorov. Študovali sme tiež Frechetovské podpriestory minimálnych usco a minimálnych cusco zobrazení.

 Študovali sme stavovú zložitosť operácie strojového zreťazenia predpokladajúc, že obidva operandy patria do nejakej, prípustne rôznej, podtriedy konvexných jazykov. Menovite ide o triedy ľavých, pravých, obojstranných a všetkostranných ideálov a triedy jazykov uzavretých na alebo neobsahujúcich predpony, prípony, faktory a podslová. Pre všetky uvažované dvojice tried dostaneme presnú stavovú zložitosť strojového zreťazenia. Ukážeme, že táto zložitosť je m vždy keď prvý jazyk je ľavý ideál, a ak prvý jazyk je predponovo uzavretý alebo bezpredponový, zložitosť je m+n−1 alebo m+n–2. V ostatných prípadoch je stavová zložitosť strojového zreťazenia medzi mn−2n−m+4 a mn−n+m, pričom druhá z týchto hodnôt je známa stavová zložitosť strojového zreťazenia na regulárnych jazykoch. Všetky naše dosvedčujúce jazyky sú popísané na konštantnej abecede veľkosti najviac tri, okrem troch prípadov keď sú popísané na abecede veľkosti m alebo m−1.

 Študovali sme nedeterministickú stavovú zložitosť základných regulárnych operácií na subregulárnych triedach jazykov. Zameriavame sa najmä na triedy kombinačných jazykov, konečne generovaných ľavých ideálov, grupových, hviezdových, kométových, obojstranne kométových, usporiadaných a mocniny separujúcich jazykov a uvažujeme o operáciách prieniku, zjednotenia, zreťazenia, mocniny, Kleeneho uzáveru, zrkadlového obrazu a doplnku. Vo všetkých prípadoch dostaneme presnú zložitosť, s výnimkou doplnku grupových jazykov, kde máme iba exponenciálny dolný odhad. Zložitosť všetkých operácií na kombinačných jazykoch je daná konštantnou funkciou, okrem k-tej mocniny, kde táto zložitosť je k+1.

 Skúmali sa boolovské súčiny jednoduchých algebier filtrálnych variet na základe výsledkov týkajúcich sa charakterizácie boolovských súčinov jednoduchých De Morganových algebier.

 Študovali sa metódy pre určenie počtu (normálnych) fuzzy podgrúp grupy U6n a aplikovali sa na vybrané tvary čísla n (mocniny prvočísel). Vyvinul sa počítačový program pre určenie tohto počtu pre ľubovoľné n. (Stále chýba uzavretý matematický tvar závislý len od kanonického rozkladu na prvočísla čísla n.)

 Poskytli sme ostré rozšírenie Kneserovej oscilačnej vety pre funkcionálne diferenciálne rovnice tretieho a štvrtého rádu.

 Boli študované kvalitatívne vlastnosti riešení vybraných tried zlomkových diferenciálnych rovníc.

 Bola rozpracovaná nová metóda pre štúdium asymptotických a oscilatorických vlastností riešení neutrálnych pololineárnych diferenciálnych rovníc druhého rádu.

 Charakterizovali sme steering pre stavy vo všeobecných probabilistických teóriach (GPT). V binárnom prípade je steering charakterizovaný pomocou tenzorových noriem, vo všeobec-nejších prípadoch pomocou Choquetovho usporiadania na konvexnej množine stavov.

 Definovali sme spojitý funkcionálny kalkulus pre order unit priestory s komparabilitou (v zmysle Foulisa) a Borelov funkcionálny kalkulus pre spektrálne order unit priestory. Pomocou podmienok Alfsena a Schultza sme charakterizovali order unit priestory s kompa-rabilitou, ktoré sú JB-algebry. Dokázali sme charakterizáciu Rickartových JB-algebier ako tých JB-algebier, v ktorých každá maximálna asociatívna podalgebra je monotónne sigma-úplná, čo rozširuje analogický výsledok Saito a Wrighta pre C\*-algebry.

 Zaviedli sme nové formuly pre Tuttov a charakteristický polynóm matroidu.

 Zaviedli sme nové polynómy vyjadrujúce počty nikde nulových sietí v grafoch, ktoré predstavujú nehomogénny variant nikde nulových tokov v grafoch.

 Venovali sme sa vlastnostiam kvadratickej konštrukcie na zobrazeniach medzi p-tymi suspenziami topologických priestorov. Získali sme podrobný dôkaz prirodzenosti na úrovni reťazcových komplexov vzhľadom k istým komutatívnym štvorcom medzi dvoma takými zobrazeniam, dôkaz prirodzenosti vzhľadom na prechod od p-tej k (p+1)-vej suspenzii a tiež dôkaz aditívnosti. Získali sme podrobný dôkaz prirodzenosti konštrukcie algebraickej hranice a algebraickej chirurgie.

 Kompresné bázy na efektových algebrách boli zavedené ako dodatočné štruktúry umožňujúce definovať spektralitu a spektrálny rozklad v analógii so samoadjungovanými operátormi. Elementy kompresnej bázy sú zobrazenia, analogické kompresiám v operátorových algebrách, a sú v jedno-jednoznačnom vzťahu so špeciálnymi elementami, tzv. projekciami.

 Efektová algebra je spektrálna, ak má vyznačenú spektrálnu bázu s dvomi špeciálnymi vlastnosťami: projekčné pokrytie (t.j., pre každý prvok existuje minimálna projekcia. ktorá ho majorizuje) a tzv. b-komparabilitu, ktorá je analogická komparabilite v operátorových algebrách. Je ukázané, že v spektrálnej archimedovskej efektovej algebre každý prvok má jediný racionálny spektrálny rozklad. Ak navyše efektová algebra má separujúcu množinu stavov, tak každý prvok je determinovaný svojím spektrálnym rozkladom. Pre špeciálne typy intervalových efektových algebier (s RDP, archimedovské divizibilné) je ukázané, že spektralita v efektovej algebre je ekvivalentná spektralite jej univerzálnej grupy a spektrálne rozklady sú rovnaké.

 Zaoberali sme sa numerickými metódami na výpočet (presnej) distribúcie numerickou inverziou charakteristickej funkcie. Vyvinul sa k tomu nástroj Characteristics Functions Toolbox (CharFunTool) – algoritmus v softvéri MATLAB na vyhodnotenie charakte-ristických funkcií a ich kombinácií a na ich numerickú inverziu. Zamerali sme sa aj na možné aplikácie založené na použití empirických charakteristických funkcií. Metóda je vhodná aj pre rýchly výpočet bootstrapovej distribúcie priemeru vzorky ako aj pre iné lineárne funkcie, napr. pre výberové momenty. Navrhovaná metóda je presná, keď sa aplikuje na mriežkové distribúcie (t. j. v ktorých každá možná hodnota môže byť vyjadrená v tvare a + bn, kde b ≠ 0 a n je celé číslo).

 Analyzovali sme regulárny lineárny model Y\* = Xβ +ε\*, pričom sme predpokladali, že vektor chýb ε\* je známa lineárna kombinácia nezávislých náhodných premenných a rozdelenie každej z nich poznáme. Uvažovaný model patrí v metrológii medzi základné modely merania. Uvažujme lineárnu funkciu parametra β, teda θ = d′β. Jej najlepší nevychýlený lineárny odhad označme ^θ. Hustotu a distribučnú funkciu náhodnej veličiny ~θ = ^θ − θ stanovíme metódou CFA (Characteristic Function Approach) ako numerickú inverziu charakteristickej funkcie náhodnej veličiny ~θ. Na určenie hľadanej hustoty a/alebo distribučnej funkcie ~θ možno využiť softvér CharFunTool. Celý postup sme ilustrovali na modeli priameho merania jednej veličiny.

 Kalibrácia, odhad parametrov a následná analýza neistoty výsledkov meraní získaných pomocou kalibrovaného prístroja boli vykonané podľa technickej špecifikácie ISO 28037:2010 (ISO) a porovnané s prístupom založeným na metóde Monte Carlo (MCM) podľa JCGM 101:2008 ( GUM S1) a JCGM 102:2011 (GUM S2). Naša simulačná štúdia sa zameriava na empirické pravdepodobnosti pokrytia intervalov pokrytia ISO a MCM a vplyv veľkosti vzorky, ako aj na konzistentnosť výsledkov s ohľadom na rôzne kombinácie neistôt meraní.

 Skúmali sme rôzne aspekty a problémy lineárnej kalibrácie s chybami v oboch premenných. Prezentovali sme alternatívny prístup k odhadu parametrov a určovaniu matice neistoty a vysvetlili sme explicitný vzťah medzi približnými maticami neistoty založenými na technickej špecifikácii ISO 28037:2010 a zákonom šírenia neistoty (LPU) na základe JCGM 100:2008 (GUM) a jeho doplnkoch

 Uvažovali sme koncept lineárneho porovnávacieho kalibračného modelu, ako je uvedený v technickej špecifikácii ISO 28037:2010 a iteračný algoritmus na získanie vážených odhadov najmenších štvorcov (WTLS) parametrov modelu spolu s maticou neistoty pre parametre. Zvažovali sme alternatívny, aj keď ekvivalentný prístup, v ktorom sú odhady parametrov modelu spolu s ich kovariančnou maticou určené za predpokladu, že regresný model chýb v premenných je správne (iteračne) linearizovaný a určili sme BLUE (najlepšie lineárne nevychýlené odhady) parametrov modelu spolu s ich kovariančnou maticou.

 Riešili sme problém určenia oblasti neistoty pre lineárnu regresiu, ak merané údaje sú skorelované. Faktory pokrytia pre oblasti neistôt s rôznymi modelmi chýb v meraných dátach sa získavajú analyticky pomocou metódy Monte Carlo. Lineárne regresné koeficienty sú odhadnuté zovšeobecnenou metódou najmenších štvorcov.

 Prezentovali sme a opísali náš MATLAB-ovský algoritmus PolyCal, ktorý je založený na prístupe EIV (Errors-In-Variables) modelovania a na prístupe charakteristických funkcií. Algoritmus je dostupný v CharFunTool –Characteristic Functions Toolbox pre MATLAB, https://github.com/witkovsky/CharFunTool. Použiteľnosť algoritmu sme ilustrovali na jednoduchom príklade.

 Ukázali sme úplnú charakterizáciu monotónnych funkcií, ktoré sa dajú skonštruovať pomocou (z-)ordinálneho súčtu a uviedli nutné a postačujúce podmienky na to, aby takto skonštruovaná funkcia bola monotónna. Tiež sme ukázali, aké typy pologrúp môžeme použiť v (z-)ordi-nálnom súčte ak chceme, aby výsledná funkcia bola monotónna a v prípade z-ordinálneho súčtu sme pre funkcie spĺňajúce intermediate condition charakterizovali aj príslušné čiastočné usporiadania.

 Bol pripravený prehľad o relevantných výsledkoch dosiahnutých najmä R. Fričom, M. Papčom a ich nasledovníkmi, ktorí v priebehu posledných dvoch desaťročí aplikovali kategoriálny prístup k teórii pravdepodobnosti. Kľúčové postavenie v ňom zaujala kategória ID s D-posetmi fuzzy podmnožín univerza ako jej objektmi a sekvenčne spojitými D-homomorfizmami ako jej morfizmami. Vďaka takémuto uchopeniu sú rôzne teórie pravdepodobnosti opísané ako špeciálne podkategórie kategórie ID a niektoré základné tvrdenia i konštrukcie sú preformulované prehľadnejším spôsobom.

 Bola zavedená podmienená monotónnosť ako pojem pokrývajúci rôzne druhy monotónnosti podrobené štúdiu v predchádzajúcich prácach autorských kolektívov Sesma-Sara a kol. ako aj Santiago a kol., pričom využíva prípustné usporiadania. Študovala sa analýza uplatnenia predmetného pojmu v agregovaní funkcií, ktorých hodnotami sú intervaly, ako aj opisom jeho vlastností a vzťahu k abstraktnej homogénnosti.

 Boli sú nájdené limity dopredu zadaných prvých r-tých cifier v postupnosti imaginárnych častí núl Riemannovej zeta funkcie.

**3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku**

**3.1. Údaje o doktorandskom štúdiu**

Tabuľka 3a Počet doktorandov v roku 2022

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2022** | | | | **Počet doktorandov po doktorandskej skúške** | | **Počet ukončených doktorantúr v r. 2022** | | | | | |
| **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** | 4 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Denná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 4 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Z toho zahraničných** | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Súhrn** | 5 | | 2 | | 1 | | 1 | | 0 | | 0 | |

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.   
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2022 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.*

**3.2. Zmena formy doktorandského štúdia**

Tabuľka 3b 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 |

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

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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** |
| Mgr. Jean Rosemond Dora | interné štúdium hradené z prostriedkov SAV | 9 / 2017 | 8 / 2022 | 9.1.9 aplikovaná matematika | doc. RNDr. Karol Nemoga CSc., Matematický ústav SAV, v. v. i. | Fakulta matematiky, fyziky a informatiky UK |

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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** |

**3.5. Uplatnenie absolventov doktorandského štúdia**   
   
Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)** | **z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)** | **z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu** | **z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu** | **z toho koľkí boli nejaký čas nezamestnaní** |
| 0 | 0 | 0 | 0 | 0 |

*Zoznam interných a externých doktorandov je uvedený v prílohe A.* **3.6. Medzinárodné doktorandské štúdium**

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

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

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

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

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

|  |  |  |  |
| --- | --- | --- | --- |
| **Názov študijného odboru (ŠO)** | **Číslo ŠO** | **Názov doktorandského študijného programu** | **Doktorandské štúdium uskutočňované na**   (univerzita/vysoká škola a fakulta) |
| aplikovaná matematika | 9.1.9 |  | Fakulta matematiky, fyziky a informatiky UK |

*Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov* [*https://www.portalvs.sk/sk/studijne-odbory?from=menu1*](https://www.portalvs.sk/sk/studijne-odbory?from=menu1)*. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.   
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.*

Tabuľka 3h Účasť na pedagogickom procese

|  |  |  |
| --- | --- | --- |
| **Menný prehľad pracovníkov,   ktorí boli menovaní   do odborových   komisií pre doktorandské   štúdium** | **Menný prehľad pracovníkov,   ktorí pôsobili ako členovia   vedeckých rád univerzít,   správnych rád univerzít a fakúlt** | **Menný prehľad pracovníkov,   ktorí získali vyššiu vedeckú,   pedagogickú hodnosť   alebo vyšší kvalifikačný stupeň** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | Ing. Irena Jadlovská, PhD. (IIa) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | prof. RNDr. Michal Fečkan, DrSc. (Univerzita Komenského v Bratislave) | Mgr. Andrea Zemánková, DrSc. (I) |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | RNDr. Stanislav Jakubec, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králové, ČR) | Mgr. Andrea Zemánková, DrSc. (DrSc., Slovenská akadémia vied) |
| 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) | prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB) |  |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) | doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |
| Mgr. Anna Jenčová, DrSc. (aplikovaná matematika) |  |  |
| prof. RNDr. Július Korbaš, CSc. (geometria a topológia) |  |  |
| 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) |  |  |

**3.8. Údaje o pedagogickej činnosti**   
   
Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 8 | 1 | 9 | 0 |
| **Celkový počet hodín v r. 2022** | 448 | 78 | 589 | 0 |

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

Tabuľka 3j Aktivity pracovníkov na VŠ

|  |  |  |
| --- | --- | --- |
| **1.** | **Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti   diplomových a bakalárskych prác** | 12 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 21 |
|
| **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** | 2 |
|
| **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** | 1 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 3 |
|

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

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

**M. Vajteršic:** Mag. Markus Flatz (Univ. Salzburg) - 1128 Supercomputing - externý doktorand

**R. Nedela:** Mgr. Peter Zeman (KAM MFF UK, Praha) – úspešná obhajoba vo februári 2022

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

**T. Macko:**

 Ajay Ray (FMFI UK) - Geometria a topológia

 Serhii Dylda (FMFI UK) - Geometria a topológia

 Mgr. Samuel Kalužný (FMFI UK) - Geometria a topológia

**4. Medzinárodná vedecká spolupráca**

**4.1. Medzinárodné vedecké podujatia**

**4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
Central European Conference on Cryptology (CECC '22), Smolenice, 50 účastníkov, 26.06.-29.06.2022

Tradičná konferencia z kryptológie

2nd workshop on Application of Knowledge Methods in Information Security (AKMIS 2022), Smolenice, 15 účastníkov, 27.06.-29.06.2022

Každoročný workshop zameraný na knowledge methods, ontologies and knowledge-sharing. Súčasť konferencie CECC.

Summer School on General Algebra and Ordered Sets (SSAOS 2022), Tatranská Lomnica, 26 účastníkov, 28.08.-02.09.2022

Letná škola z algebry a usporiadaných množín.

36. medzinárodná letná konferencia z teórie reálnych funkcií (ISCORFT 2022), Stará Lesná, 28 účastníkov, 11.09.-16.09.2022

Tradičná medzinárodná konferencia z teórie reálnych funkcií a aplikácií.

International Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 12 účastníkov, 02.12.-02.12.2022

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 iných výskumných inštitúcií ako napr. z Indie.

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
Summer School in Algebra and Ordered Structures (SSAOS 2023)/Summer School in Algebra and Ordered Structures (SSAOS 2023), Stará Lesná, 02.09.-08.09.2023, (Anna Jenčová, 02/ 5751 0504, anna.jencova@mat.savba.sk)

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

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Meno pracovníka** | **Programový** | **Organizačný** | **Programový i organizačný** |
| Čunderlíková Katarína | 0 | 0 | 1 |
| Dora Jean Rosemon | 0 | 1 | 0 |
| Eliaš Peter | 0 | 0 | 1 |
| Holá Ľubica | 0 | 0 | 1 |
| Jenčová Anna | 1 | 0 | 0 |
| Kákošová Dana | 0 | 1 | 0 |
| Kvapilová Zuzana | 0 | 1 | 0 |
| Michalíková Alžbeta | 1 | 0 | 1 |
| Nemoga Karol | 0 | 0 | 2 |
| Novotný Branislav | 0 | 0 | 1 |
| Olejár Viktor | 0 | 2 | 0 |
| Ondrušková Eugénia | 0 | 1 | 0 |
| Pócs Jozef | 0 | 1 | 0 |
| Sýs Peter | 0 | 1 | 0 |
| Vajteršic Marian | 0 | 0 | 1 |
| Zemánková Andrea | 1 | 0 | 0 |
| **Spolu** | 3 | 8 | 8 |

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

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

RNDr. Katarína Čunderlíková, PhD.

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

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)

International Quantum Structure Association (funkcia: člen výboru)

Ing. Irena Jadlovská, PhD.

International Society of Difference Equations (funkcia: člen)

doc. Mgr. Ján Mačutek, PhD.

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

RNDr. Alžbeta Michalíková, PhD.

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

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

prof. RNDr. Roman Nedela, DrSc.

Európska matematická spoločnosť (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

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

IACR International Association for Cryptology (funkcia: člen)

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

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

European Academy of Sciences and Arts (EASA) (funkcia: člen)

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Mačutek Ján | IDEAS (Srbsko, http://fondzanauku.gov.rs/the-program-ideas/?lang=en) | 2 |
| Nemoga Karol | NATO ISEG | 20 |

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

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

*Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.*

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.* **5. Koncepcia dlhodobého rozvoja organizácie**

**5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)**

Odporúčania Medzinárodného panelu.

 Zriadiť medzinárodný poradný panel.

 Pokračovať v doktorandskom štúdiu, ktorého zameranie musí byť atraktívne pre študentov.

 Posilniť zložku postdoktorandov na ústave.

 Pracovať ďalej na vyváženosti pomeru žien na pracovisku.

 Posilniť aktivity smerom ku účasti študentov na ústave.

SAV prijala širší akčný plán. Oba tieto dokumenty, t.j. Akčný plán SAV a odporúčania panelu boli rozpracované do Akčného plánu Matematického ústavu SAV.

**5.2. 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. 2022 boli.

 Doktorandské štúdium

 Spolupráca s VŠ

 Diverzita pracovníkov

 Projektová aktivita, medzinárodné projekty

 Medziakademická spolupráca

 Strategické zameranie

 Multidisciplinárny výskum

 Strategické formovanie ústavu

 Pomenovanie ústavu

 Publikačné prostredie

 Publikovanie vlastných výsledkov

 Vydávanie časopisov

 Problematika duševného vlastníctva

 Rozpočet pracoviska

 Manažment a infraštruktúra pracoviska

Akčný plán je každoročne prehodnocovaný.

**5.3. Aktualizácia Akčného plánu organizácie v roku 2022**

V roku 2022 sme urobili niekoľko výrazných krokov v jeho plnení:

 Dr. Omid Zahiri, Teherán, Irán, nastúpil mladý kolega v rámci štipendia SASPRO II na MÚ SAV, v. v. i. na 36 mesiacov.

 Na doktorandské štúdium na ústave nastúpil Friday Agu z Nigérie.

 V r. 2022 ukončil úspešne doktorandské štúdium náš doktorand Jean Rosamonde z Haiti.

 Od októbra 2022 nastúpil na ústav doktorand Gandolfo Vergottini, z Univ. Cagliari, Taliansko, ktorý na MÚ SAV strávi 6 mesiacov svojho PhD štúdia.

 S Výskumnou agentúrou pokračujeme v realizovaní dvoch zmlúv na realizáciu projektov Operačného programu Výskum a inovácie a začal sa nový projekt.

 Časopisu Mathematica Slovaca sa zvýšil impaktový faktor z IF(2020) = 0,770 na IF(2021) = 0.996, čím sa dostal do 2. kvartilu v sekcii matematika. päťročný impakt faktor 0,766. V databáze Scopus má časopis SJR(2021) = 0,432 ktorý je mierne znížený oproti SJR(2020) = 0,445, (Scimago Journal Ranking), Cite Score = 1.03 a je v 2. kvartile. Počet zaslaných článkov v r. 2022 bol okolo 750.

Týmito krokmi sme plnili odporúčania akreditačného panelu smerom ku omladeniu ústavu, posilneniu počtu postdoktorandov. Rozšírili sme spoluprácu o ďalšie atraktívne smery, napr. aktuálne problémy modelovania šírenia pandémie Covid 19 na Slovensku, ako nám bolo odporúčané. Súčasne sme rozšírenie spolupráce zamerali na získavanie ďalších mimorozpočtových zdrojov, čo umožní ďalšie zvýšenie počtu mladých pracovníkov.

Medzinárodný poradný panel Matematického ústavu SAV má nasledujúce zloženie:

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

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

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

**6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4**

**6.1. Spoločné pracoviská organizácie**

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

**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, výuka a príprava materiálov.

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

**Oblasť spolupráce:** Členstvo v štátnicovej komisii.

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

**Začiatok spolupráce:** 2022

**Zhodnotenie:** Členstvo v štátnicovej komisii.

**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, výchova mladých vedeckých pracovníkov, členstvo v štátnicových 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:** Výuka 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, výuka, príprava spoločných publikácií, členstvo v komi-siách, semináre, vedenie bakalárskych a diplomových prác, vypracovávanie oponentských posud-kov 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:** spoločný grant

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

**Začiatok spolupráce:** 2020

**Zhodnotenie:** Spolupráca na grante.

**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:** výuka, 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:** výuka, spolupráca vo vedeckých projektoch.

**Názov univerzity/vysokej školy a fakulty:** Univerzita Konštantína Filozofa v Nitre

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

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

**Začiatok spolupráce:** 2002

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

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

**Oblasť spolupráce:** pedagogika a výskum

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

**Začiatok spolupráce:** 2002

**Zhodnotenie:** Prednášky a výchova študentov.

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

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

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

**Oblasť spolupráce:** projekt APVV

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

**Začiatok spolupráce:** 2022

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

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

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

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

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

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

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** MO SR

**Koordinátor projektu:**

**Začiatok spolupráce:** 2013

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

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

**Agentúra:** Výskumná agentúra

**číslo projektu:** NFP313010BWH2

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

**Koordinátor projektu:** Trnavská univerzita v Trnave

**Začiatok spolupráce:** 2022

**Koniec spolupráce:** 2023

**Zhodnotenie:** Pracujeme na problematike predikčných modelov pre vyhodnotenie stavu pacienta s CHF.

*Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci*

**6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV**   
 **7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi**

**7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi**

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

Kto využíva výsledok: MO SR

Rok využívania od: 2022

Rok využívania do: -

Projekt:

Rok vytvorenia výsledku: 2022

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

**7.2. 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

**7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi**   
 **8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie**

**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**   
   
Pozri časť 7.1.

**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. Vedecko-organizačné a popularizačné aktivity**

**9.1.Vedecko-popularizačná činnosť**

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ** | **Počet** | **Typ** | **Počet** | **Typ** | **Počet** |
| prednášky/besedy | 11 | tlač | 0 | TV | 0 |
| rozhlas | 0 | internet | 2 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 1 | dokumentárne filmy | 0 |
| iné | 0 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9b Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| Central European Conference on Cryptology (CECC '22) | medzinárodná | Smolenice | 26.06.-29.06.2022 | 50 |
| 2nd workshop on Application of Knowledge Methods in Information Security (AKMIS 2022) | medzinárodná | Smolenice | 27.06.-29.06.2022 | 15 |
| Summer School on General Algebra and Ordered Sets (SSAOS 2022) | medzinárodná | Tatranská Lomnica | 28.08.-02.09.2022 | 26 |
| 36. medzinárodná letná konferencia z teórie reálnych funkcií (ISCORFT 2022) | medzinárodná | Stará Lesná | 11.09.-16.09.2022 | 28 |
| International Workshop on Intuitionistic Fuzzy Sets | medzinárodná | Banská Bystrica | 02.12.-02.12.2022 | 12 |

**9.3. Účasť na výstavách**

**9.4. Účasť v programových a organizačných výboroch národných konferencií**   
   
Tabuľka 9c Programové a organizačné výbory národných konferencií

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

**9.5. Členstvo v redakčných radách časopisov**

RNDr. Katarína Čunderlíková, PhD.

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

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

Indian Journal of Mathematics (funkcia: člen)

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

Mathematica Slovaca (funkcia: výkonný editor)

Military and Science (funkcia: člen redakčnej rady)

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

Soft Computing (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

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

prof. RNDr. Michal Fečkan, DrSc.

Communications in Mathematical Analysis (funkcia: editor)

Differential Equations & Applications (funkcia: editor)

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

Dynamics of Partial Differential Equations (funkcia: editor)

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

Journal of Applied Mathematics (funkcia: editor)

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

Journal of Modeling, Simulation, Identification, and Control (funkcia: editor)

Mathematica Slovaca (funkcia: editor)

Mathematical Notes, Miskolc University (funkcia: editor)

doc. RNDr. Ján Haluška, CSc.

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

Tatra Mountains Mathematica Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)

Mathematica Slovaca (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Juraj Hromkovič, DrSc.

Computing and Informatics (funkcia: člen)

Grammars (funkcia: člen)

Pokroky matematiky, fysiky a astronomie (funkcia: člen)

RAIRO­ Theoretical Information and Applications (funkcia: člen)

Ing. Irena Jadlovská, PhD.

Applied Mathematics in Science and Engineering (funkcia: editor)

Journal of Mathematics and Computer Science (funkcia: editor)

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

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

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. Marian Vajteršic, DrSc.

Computing and Informatics (CAI) (funkcia: člen redakčnej rady)

International Journal of Computer Science & Information Technology Applications (IJCSITA) (funkcia: člen redakčnej rady)

Parallel Processing Letters (PPL) (funkcia: člen redakčnej rady)

Scalable Computing: Practice and Experience (SCPE) (funkcia: člen redakčnej rady)

Scientific Publications of the State University of Novi Pazar (funkcia: člen redakčnej rady)

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)

**9.6. 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)

prof. RNDr. Július Korbaš, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen Výboru pobočky Bratislava 1)

RNDr. Alžbeta Michalíková, PhD.

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

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

Krajská komisia matematickej olympiády Prešovský kraj (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Viktor Olejár

QSlovakia (funkcia: Koordinátor)

Mgr. Eva Plávalová, PhD.

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

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

Austrian Centre for Scientific Computing (ACSC) (funkcia: vedúci sekcie)

Humboldtov kluv v SR (funkcia: člen)

Jednota slovenskych matematikov a fyzikov (JSMF) (funkcia: člen)

Stiftungs- und Foerderungsgesellschaft der Paris-Lodron-Universität Salzburg (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

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

**10. Činnosť knižnično-informačného pracoviska**

**10.1. Knižničný fond**

Tabuľka 10a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | | 27 217 |
| z toho | knihy a zviazané periodiká | 27 122 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | 2 |
| Rukopisy, vzácne tlače | - |
| Počet titulov dochádzajúcich periodík | | 78 |
| z toho zahraničné periodiká | | 68 |
| Ročný prírastok knižničných jednotiek | | 93 |
| v tom | kúpou | 2 |
| darom | 1 |
| výmenou | 90 |
| 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“.*

**10.2. Výpožičky a služby**

Tabuľka 10b Výpožičky a služby

|  |  |  |
| --- | --- | --- |
| **Výpožičky spolu (riadok 1)** | | 20 |
| v tom z r. 1 | prezenčné výpožičky | 6 |
| absenčné výpožičky | 14 |
| v tom z r. 1 | odborná literatúra pre dospelých | 17 |
| výpožičky periodík | 3 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 32 |

**10.3. Používatelia**

Tabuľka 10c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 9 |

**10.4. Iné údaje**

Tabuľka 10d Iné údaje

|  |  |
| --- | --- |
| On-line katalóg knižnice na internete ( 1=áno, 0=nie) | 0 |
| Náklady na nákup knižničného fondu v € | 379,18 |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2022 bol zabezpečený voľný prístup do matematickej databázy Zentralblatt MATH (FIZ Karlsruhe GmbH).

**11. Aktivity v orgánoch SAV**

**11.1. Členstvo vo Výbore Snemu SAV**

doc. RNDr. Karol Nemoga, CSc.

- člen

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

**11.3. Členstvo v komisiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

- Komisia SAV pre rovnosť príležitostí (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 (podpredseda RR SAV)

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

**11.4. Členstvo v orgánoch VEGA**

Mgr. Martin Bečka, PhD.

- Komisia VEGA č.5 (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)

doc. Ing. Gabriel Okša, CSc.

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen komisie)   
 **12. Hospodárenie organizácie**

**12.1. Výdavky organizácie**

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ organizácie** (v. v. i.) |  | **Zdroje, z ktorých sa kryli jednotlivé výdavky** | | | |
| **Výdavky** | **Spolu** | **kapitola SAV (111)** | **iné štátne a verejné zdroje** | **ostatné zdroje** | **% krytia z kapitoly SAV** |
| **1. Bežné výdavky** | 1 754 629,65 | 1 333 586,41 | 372 951,18 | 48 092,06 | 76,00 |
| z toho: mzdy (610) | 1 103 349,44 | 861 151,00 | 236 698,44 | 5 500,00 | 78,05 |
| vedecká výchova štipendiá (640) | 43 263,00 | 43 263,00 | - | - | 100,00 |
| poistné a príspevok do poisťovní (620) | 382 048,32 | 300 030,35 | 79 732,47 | 2 285,50 | 78,53 |
| tovary a služby (630) | 181 442,23 | 105 936,38 | 35 199,29 | 40 306,56 | 58,39 |
| transfery partnerom projektov (640) | 20 271 | - | 20 271 | - | 0,00 |
| **2. Kapitálové výdavky** |  |  |  |  |  |
| z toho: obstarávanie kapitálových aktív | - | - | - | - | - |
| kapitálové transfery | - | - | - | - | - |

**12.2. Zdroje financovania organizácie**

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ organizácie** (v. v. i.) |  | **Z toho kategórie** | | | |
| **Zdroje** | **Spolu** | **Kapitálové zdroje** | **zdroje na mzdy (610)** | **zdroje na odvody do poisťovní (620)** | **zdroje na transfery partnerom projektov** |
| **1. kapitola SAV (111)** | 1 333 586,41 | - | 861 151,00 | 300 030,35 | - |
| z toho: VEGA | 60 909,00 | - | - | 196,43 | - |
| MVTS výskumné projekty | - | - | - | - | - |
| MVTS podpora | - | - | - | - | - |
| Mobility | 1 162,12 | - | - | - | - |
| SASPRO | 997,78 | - | 738,00 | 259,78 | - |
| Vydávanie časopisov | 20 718,82 | - | - | 107,17 | - |
| Vedecká výchova (štipendiá) | 43 263,00 | - | - | - | - |
| OTAS (630) | 44 446,59 | - | - | 257,97 | - |
| **2. ŠF EÚ vr. fin. zo ŠR** | - | - | - | - | - |
| **3. medzinárodné grantové projekty** |  |  |  |  |  |
| SASPRO | 13 700,00 | - | 10 134,50 | 3 565,50 | - |
| QUTE | 6 761,85 | - | 5 000,00 | 1 761,85 | - |
| z toho: H2020 | - | - | - | - | - |
| **4. iné štátne a verejné zdroje (spolu)** | 372 951,18 | - | 236 698,44 | 79 732,47 | 20 271,00 |
| z toho: APVV | 83 798,57 | - | 21 075,00 | 7 050,53 | 20 271,00 |
| ITMS Zdravie | 228 926,15 | - | 171 115,44 | 57 757,32 | - |
| ITMS Kvant | 60 226,46 | - | 44 508,00 | 14 924,62 | - |
| Úrad vlády - Plán obnovy | - | - | - | - | - |
| podpora z kapitoly MŠVVaŠ SR (stimuly) | - | - | - | - | - |
| **5. ostatné zdroje** |  |  |  |  |  |
| z toho: príjmy z prenájmu | - | - | - | - | - |
| príjmy z podnikateľskej činnosti | - | - | - | - | - |
| príjmy z expertnej činnosti a služieb | 53 873,59 | - | 5 500,00 | 2 285,50 | - |

**13. Nadácie a fondy pri organizácii SAV**   
   
 **14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti**

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

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 2022 boli z 10 pracovníkov s hodnosťou DrSc. 4 pracovníčky z toho jedna získala vedeckú hodnosť DrSc. v r. 2022 po úspešnej obhajobe na sklonku roku 2021. Rovnako sme do našej košickej pobočky prijali v roku 2021 ďalšiu fundovanú mladú vedeckú pracovníčku, ktorá počas tohto roku dosiahla kvalifikačný stupeň IIa. 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 ku rozvoju matematiky v rámci našich možností. Jediné hľadisko bola a vždy bude kvalita uchádzačky alebo uchádzača.

**14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov**

Tabuľka 14a 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** | 10 | 7 | 3 | 3 | 2 | 1 |
| **2. Projekty APVV** | 2 | 1 | 1 | 6 | 6 | 0 |
| **3. Projekty EŠIF/OP ŠF** | 0 | 0 | 0 | 1 | 1 | 0 |
| **4. Projekty SASPRO, MoRePro,   IMPULZ** | 0 | 0 | 0 | 0 | 0 | 0 |
| **5. Iné projekty (FM EHP,   Vedecko-technické projekty,   na objednávku rezortov a pod.)** | 1 | 1 | 0 | 0 | 0 | 0 |

Tabuľka 14b 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** | 1 | 1 | 0 | 0 | 0 | 0 |
| **6. Bilaterálne projekty MAD,   Mobility, Open Mobility** | 2 | 0 | 2 | 0 | 0 | 0 |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | 0 | 0 | 0 | 0 |
| **8. Podpora MVTS z národných   zdrojov okrem 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 |

**14.3. Výskum zameraný na rodovú problematiku**

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

**15. Iné významné činnosti organizácie SAV**

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

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

V r. 2007 začal byť časopis Mathematica Slovaca indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. V súčasnosti patrí do druhého kvartilu Q2. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Časopis prešiel od 600 strán formátu B5 a 48 článkov (2007) ku dnešným 1500 stranám formátu A4 s asi 130 článkami.

Vyše 75 % prác je zamietnutých (z viac ako 550 zaslaných). V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2021)=0,996, päťročný impakt faktor 0,766 a je v 2. kvartile v sekcii matematika. V databáze Scopus má časopis SJR = 0,432 (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 http://maslo.mat.savba.sk. Adresa časopisu na stránkach spoločnosti Springer je

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

alebo

<http://www.springerlink.com/content/1337-2211>.

Adresa časopisu na stránkach spoločnosti Versita bola

<http://www.versita.com/science/mathematics/maslo>.

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

<http://www.degruyter.com/view/j/ms>,

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

<http://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. 2022 vyšiel 81. zväzok. Od zväzku 15 sú niektoré zväzky časopisu zaradené do Current Contents - Index to Scientific Book Contents CC / Physical, Chemical and Earth Sciences. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1992. Od vol. 41 v r. 2008 je indexovaný v databáze WOS (Web of Science) a CPCI (Conference Proceedings Citation Index). Od r. 2011 je tento časopis indexovaný aj v databáze Scopus. Jeho SJR (Scimago Journal Ranking) má hodnotu 0,230 a je v 4. kvartile.

Ústav získava (predajom, resp. výmenou za tento časopis) časť svojich informačných zdrojov. Adresa je [http://tatra.mat.savba.sk](http://tatra.mat.savba.sk/). Časopis je od roku 2009 distribuovaný ako Open Access aj spoločnosťou De Gruyter Sciendo s WEB stránkou <http://www.degruyter.com/view/j/tmmp>.

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2022 vyšiel 17. ročník. Adresa je http://udt.mat.savba.sk a http://www.boku.ac.at/MATH/udt. Časopis vydávame spolu s BOKU University vo Viedni. Je to vysoko špecializovaný vedný časopis, ktorý uverejňuje prevažne príspevky zahraničných autorov (95 percent). V roku 2016 sa dohodla jeho distribúciu aj cez spoločnosť De Gruyter Sciendo na adrese

<https://content.sciendo.com/view/journals/udt/udt-overview.xml>.

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

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

**16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022**

**16.1. Domáce ocenenia**

**16.1.1. Ocenenia SAV**

**16.1.2. Iné domáce ocenenia**

**Hospodár Michal**

Cena akademika Štefana Schwarza pre mladých matematikov (2.-3. miesto)

*Oceňovateľ: Slovenská matematická spoločnosť (JSMF)*

*Opis: Dňa 28.4.2022 počas 52. Konferencie slovenských matematikov v Dolnom Kubíne mi bola v neprítomnosti udelená Cena akademika Štefana Schwarza (delené 2.-3. miesto) za roky 2020 a 2021. Cenu udeľuje Slovenská matematická spoločnosť (sekcia JSMF) slovenským matematikom do 30 rokov, v čase nominácie v roku 2020 som túto podmienku spĺňal.*

**16.2. Medzinárodné ocenenia** **17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)**

**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 byť 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 /

**18. Problémy a podnety pre činnosť SAV**

Celkovo bol rok 2022 približne rovnaký, ako predchádzajúci. V roku 2021 sme čerpali aj kapitálové výdavky vo výške cca 150 tisíc EUR, z toho 21 tisíc z kapitoly SAV (111). Konkrétne celkove v roku 2022 došlo ku celkovému poklesu výdavkov Matematického ústavu SAV, v. v. i., a to o 2,88 % oproti roku 2021. Keď odpočítame kapitálové výdavky, ktoré boli mimoriadne, dostávame rast o 5,86 %. V rozpočtových výdavkoch došlo ku bezvýznamnému rastu o 0,28 % napriek 3 percentnej valorizácii od 1. 7. 2022. To znamená, že valorizácia v podstate nebola pokrytá a bola na vrub našich vnútorných rezerv. Stále sme pokrývali zvýšenie platov pracovníkov zhruba 27 % nad tarifu z mimorozpočtových prostriedkov.

Kapitálové výdavky sú nevyhnutné aj pri výdavkoch na jednotlivé predmety, napríklad počítače pri obstarávacej cene viac ako 1700 EUR. Táto hranica je tu ešte z obdobia pred používaním EUR a považujeme za nevyhnutné ju posunúť niekoľkonásobne vyššie. Napríklad notebooky firmy Apple bežne stoja nad 2000 EUR a pri ich zakúpení je nutné zložito komunikovať a zabezpečiť výmenu prostriedkov z kategórie 630 do 700, čo považujeme za stratu času.

V priebehu roku 2022 sme získali projekt 313011BWH2 „InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF“ s predpokladaným príjmom cca 450 tisíc EUR. V roku 2022 sa realizovala zálohová platba vo výške 150 tisíc EUR.

V APVV sme v roku 2022 zaznamenali celkový nárast príjmov o 37,12 % (predtým pokles o 9,28 % v predchádzajúcom roku). Z toho pre náš ústav to bol rast o 25,64 %. APVV je dôležitý zdroj financovania a odzrkadľuje aj spoluprácu Matematického ústavu s ďalšími subjektami, keď 35,32 % výdavkov na APVV projekty transferujeme na spolupracujúce vysoké školy..

V projektoch VEGA sme zaznamenali mierny pokles financovania o 2,86 % oproti rastu 8,78 % v roku 2021 a poklesu o 11,72 % v roku 2020. Prejavuje sa tu dynamika v počte pracovníkov, ktorí riešia projekty VEGA.

Z finančného hľadiska bol rok 2022 úspešný, vzhľadom na existujúce mimorozpočtové príjmy. Pokiaľ chceme udržať súčasnú platovú úroveň bude sa treba zapojiť v priebehu roku 2024 do ďalších projektov.

V roku 2022 sme zaznamenali nárast počtu pracovníkov o 2,46 pracovníka, vo vedeckých pracovníkoch 0,3 pracovníka. Tým sme sa priblížili k limitu pracovníkov spred roku 2019. Priemerný vek vedeckých pracovníkov zostal rovnaký, ako v roku 2021.

Prechod na v. v. i. neznamenal nejaké dramatické zmeny. Oveľa vážnejšie bolo pokračovanie COVID obdobia, ktoré je poznamenané minimálnymi osobnými kontaktami pracovníkov z ich zahraničnými partnermi, čo je v matematike veľmi dôležité.

Stále vysoko hodnotíme trvajúci prístup ku vedeckým informáciám. Dôležité bude zabezpečiť rokovanie s vydavateľmi a distribútormi na celoštátnej úrovni, aby sme dosiahli prístupu „read and publish“, t. j. pre predplatení prístupu je zdarma alebo výrazne nižší poplatok za publikovanie open access našich príspevkov.

Matematický ústav SAV, v. v. i. má stále prístup do databázy Zentralblatt MATH, Nemecko, ktorý je teraz všeobecne bezplatný. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2022 neobnovili.

Popularizačná aktivita ústavu sa v poslednom roku bola pomerne nízka (až na Deň otvorených dverí), čo je do značnej miery dané COVID obdobím a istou inerciou. V roku 2023 bude treba podstatne zvýšiť naše úsilie v tomto smere.

**Správu o činnosti organizácie SAV spracoval(i):**

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

Schválila vedecká rada organizácie SAV dňa 31.1.2023

|  |  |  |
| --- | --- | --- |
| **Riaditeľ organizácie SAV** |  | **Predsedníčka vedeckej rady** |
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| .......................................................... |  | ................................................ |
| doc. RNDr. Karol Nemoga, CSc. |  | Mgr. Anna Jenčová, DrSc. |

**Prílohy**   
   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2022**

**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. | [prof. RNDr. Juraj Hromkovič, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5689) | 100 | 0.00 |
| 4. | [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2380) | 100 | 1.00 |
| 5. | [prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5699) | 45 | 0.45 |
| 6. | [doc. RNDr. Sylvia Pulmannová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2386) | 50 | 0.75 |
| 7. | [doc. RNDr. Oto Strauch, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2389) | 60 | 0.60 |
| 8. | [prof. RNDr. Marian Vajteršic, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5725) | 100 | 0.00 |
| 9. | [prof. RNDr. Gejza Wimmer, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6723) | 100 | 1.00 |
| 10. | [Mgr. Andrea Zemánková, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5731) | 100 | 1.00 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | [RNDr. Martin Kochol, PhD., DSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2601) | 100 | 1.00 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [Mgr. Martin Bečka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5673) | 100 | 1.00 |
| 2. | [Mgr. Natália Dilna, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7075) | 100 | 1.00 |
| 3. | [RNDr. Stefan Dobrev, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5681) | 100 | 1.00 |
| 4. | [prof. RNDr. Michal Fečkan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2373) | 50 | 0.50 |
| 5. | [prof. RNDr. Otokar Grošek, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13381) | 45 | 0.04 |
| 6. | [doc. RNDr. Ján Haluška, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5687) | 100 | 1.00 |
| 7. | [prof. RNDr. Miroslav Haviar, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12402) | 11 | 0.11 |
| 8. | [RNDr. Galina Jirásková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5691) | 100 | 1.00 |
| 9. | [doc. Mgr. Ján Karabáš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5693) | 20 | 0.20 |
| 10. | [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2369) | 100 | 1.00 |
| 11. | [doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5701) | 100 | 1.00 |
| 12. | [doc. RNDr. Milan Paštéka, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6691) | 3 | 0.03 |
| 13. | [RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5704) | 100 | 1.00 |
| 14. | [RNDr. Michal Pospíšil, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6622) | 20 | 0.20 |
| 15. | [doc. PhDr. Silvia Puteková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13296) | 16 | 0.08 |
| 16. | [doc. RNDr. Miroslav Repický, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5707) | 100 | 1.00 |
| **Vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Vladimír Baláž, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6707) | 1 | 0.01 |
| 2. | [RNDr. Katarína Čunderlíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11192) | 100 | 0.90 |
| 3. | [RNDr. Vladimír Dančík, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6710) | 100 | 0.00 |
| 4. | [RNDr. Peter Eliaš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5682) | 100 | 1.00 |
| 5. | [doc. RNDr. Rudolf Hajossy, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6702) | 32 | 0.32 |
| 6. | [RNDr. Emília Halušková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5688) | 100 | 1.00 |
| 7. | [Ing. Michal Hospodár, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10212) | 100 | 1.00 |
| 8. | [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5521) | 100 | 1.00 |
| 9. | [Ing. Irena Jadlovská, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12670) | 100 | 0.50 |
| 10. | [Mgr. Michaela Koščová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12414) | 20 | 0.17 |
| 11. | [Ing. Fedor Lehocki, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13295) | 25 | 0.23 |
| 12. | [doc. Mgr. Tibor Macko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5697) | 25 | 0.25 |
| 13. | [doc. Mgr. Ján Mačutek, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12165) | 100 | 1.00 |
| 14. | [RNDr. Alžbeta Michalíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11193) | 11 | 0.05 |
| 15. | [Mgr. Peter Mlynárčik, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=9397) | 11 | 0.11 |
| 16. | [Ing. Igor Mračka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=7987) | 100 | 1.00 |
| 17. | [Mgr. Branislav Novotný, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5700) | 100 | 1.00 |
| 18. | [RNDr. Igor Odrobina, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12404) | 100 | 1.00 |
| 19. | [doc. PaedDr. Martin Papčo, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=8050) | 5 | 0.05 |
| 20. | [RNDr. Martin Plávala, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10048) | 100 | 0.00 |
| 21. | [Mgr. Eva Plávalová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11194) | 3 | 0.03 |
| 22. | [Mgr. Ladislav Stacho, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5714) | 100 | 0.00 |
| 23. | [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 |
| 24. | [Mgr. Elena Vinceková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5727) | 100 | 1.00 |
| 25. | [Dr. Omid Zahiri, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13294) | 100 | 0.42 |
| 26. | [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. Miroslav Macura](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13297) | 50 | 0.23 |
| 3. | [Ing. Martin Maják](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13298) | 50 | 0.23 |
| 4. | [Ing. Peter Sýs](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11919) | 3 | 0.03 |
| 5. | [Mgr. Jana Valigurská](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=13041) | 3 | 0.43 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Ing. Iveta Červenková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12407) | 71 | 0.68 |
| 2. | [RNDr. Dana Kákošová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11784) | 100 | 1.00 |
| 3. | [RNDr. Alexandra Mojžišová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11198) | 100 | 1.00 |
| 4. | [Ing.arch. Terézia Sedláková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6653) | 59 | 0.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Marianna Bečková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12405) | 60 | 0.00 |
| 2. | [Jana Galbová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=10283) | 60 | 0.67 |
| 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) | 60 | 0.61 |
| 5. | [Zuzana Kvapilová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11783) | 100 | 1.00 |
| 6. | [Katarína Nagyová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6694) | 60 | 0.60 |
| 7. | [Eugénia Ondrušková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2374) | 100 | 1.00 |
| 8. | [Bc. Henrieta Paľová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6720) | 24 | 0.24 |
| 9. | [Katarína Štefančíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5719) | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Janka Badiarová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6709) | 33 | 0.33 |
| 2. | [Ing. Lucia Mišíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6716) | 36 | 0.36 |
| 3. | [Ing. Juraj Prochác](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12403) | 100 | 1.00 |
| 4. | [Beata Szabová](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=11196) | 100 | 1.00 |

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

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [RNDr. Stanislav Jakubec, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=2379) | 19.10.2022 | 0.35 |
| 2. | [prof. RNDr. Marian Vajteršic, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=5725) | 31.12.2022 | 0.00 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [prof. RNDr. Július Korbaš, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=3819) | 21.8.2022 | 0.02 |
| **Vedeckí pracovníci** | | | |
| 1. | [RNDr. Vladimír Dančík, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=6710) | 31.12.2022 | 0.00 |
| 2. | [RNDr. Jozefína Petrovičová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12412) | 31.10.2022 | 0.04 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [Mgr. Ing. Jean Rosemon Dora](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12702) | 31.8.2022 | 0.67 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Mgr. Zdeno Grešo](https://www.sav.sk/index.php?lang=sk&charset=&doc=user-org-user&user_no=12184) | 31.10.2022 | 0.50 |

**Zoznam doktorandov**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Friday Ikechukwu Agu | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Ing. Ferdinand Čapka | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Mgr. Viktor Olejár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Ing. Peter Sýs | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 5. | Mgr. Jana Valigurská | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| *organizácia nemá interných doktorandov hradených z iných zdrojov* | | | |
| **Externí doktorandi** | | | |
| *organizácia nemá externých doktorandov* | | | |

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

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

**Zoznam emeritných vedeckých zamestnancov**

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

***Príloha B***   
**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Programy: Medziakademická dohoda (MAD)**

**1.) Tvorba a aplikácie pravdepodobnostných a intuitionistických fuzzy modelov neurčitosti** *(Generation and applications of probabilistic and intuitionistic fuzzy models of uncertainty)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Katarína Čunderlíková |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2022 |
| **Evidenčné číslo projektu:** | SAS-BAS-21-01 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Bulharsko: 1, Slovensko: 1 |
| **Čerpané financie:** | SAV: 1162 € |

*Dosiahnuté výsledky:*   
V rámci projektu sme skúmali rôzne typy konvergencií na zovšeobecnených štruktúrach akými sú intuicionistické fuzzy množiny. Skúmali sme aj rôzne typy intuicionistických fuzzy implikácii ako napríklad Hauber, Łukasiewicz, Goguen a intuicionistické fuzzy ekvivalencie. Výsledkom výskumu je 7 publikácií, ktoré sú uvedené nižšie. Zároveň sme využili možnosť prezenčnej účasti na medzinárodnej konferencii ICIFS 2022, ktorá sa konala v dňoch 9.-10.9.2022 v Sofii v Bulharsku. Túto konferenciu organizovala naša partnerská organizácia, Inštitút biofyziky a biomedicínskeho inžinierstva Bulharskej akadémie vied, preto v dňoch 8.-12.9.2022 Dr. Katarína Čunderlíková vycestovala do Bulharska, aby širokej vedeckej spoločnosti prezentovala náš výskum konvergencie podľa miery pre intuicionistické fuzzy množiny. Výstupom je práca [1] uverejnená v časopise Notes on Intuitionistic Fuzzy Sets, vol. 28, no. 3, ktorý je zároveň zborníkom konferencie. Medzinárodnej konferencie ICIFS 2022 sa zúčastnila online formou aj Dr. Alžbeta Michalíková, ktorá prezentovala náš výskum v oblasti intuicionistických fuzzy ekvivalencií a implikácií. Výstupom sú práce [2-3] uverejnené v časopise Notes on Intuitionistic Fuzzy Sets, vol. 28, no. 3, ktorý je zároveň zborníkom konferencie. V závere roku 2022 sa nám podarilo zorganizovať medzinárodný Workshop on Intuitionistic Fuzzy Sets, ktorý sa konal 2.12.2022 v Banskej Bystrici na pobočke Matematického ústavu SAV, v. v. i. online formou cez MS Teams. Spoluorganizátorom workshopu bola Fakulta prírodných vied Univerzity Mateja Bela a naša partnerská organizácia, Inštitút biofyziky a biomedicínskeho inžinierstva Bulharskej akadémie vied. Všetci traja riešitelia projektu boli súčasťou programového a organizačného výboru spomínaného workshopu. Workshopu sa zúčastnilo 12 vedeckých pracovníkov zo Slovenska, Bulharska a Indie a bolo odprezentovaných 7 príspevkov, ktoré boli uverejnené v časopise Notes on Intuitionistic Fuzzy Sets, vol. 28, no. 4. Dr. Čunderlíková prezentovala na workshope náš výskum v oblasti konvergencie intuicionistických fuzzy množín v súvislosti s intuicionistickou fuzzy pravdepodobnosťou. Výstupom sú práce [6-7]. Po dlhej COVID pandémii sa nám podarilo obnoviť osobné stretnutia s pracovníkmi partnerskej organizácie, ktoré majú nenahraditeľné miesto vo vedeckom výskume a spolupráci.   
   
[1] K. Čunderlíková – D. Babicová, Convergence in measure of intuitionistic fuzzy observables, Notes on Intuitionistic Fuzzy Sets, 28 (3) (2022), 228-237.   
DOI 10.7546/nifs.2022.28.3.228-237

[2] N. Angelova – J. Kaczpryk – A. Michalíková – K. T. Atanassov, The Hauber´s law with intuitionistic fuzzy implications, Notes on Intuitionistic Fuzzy Sets, 28 (3) (2022), 271-279. DOI 10.7546/nifs.2022.28.3.271-279   
[3] A. Michalíková, Some notes on intuitionistic fuzzy equivalence relations and their use on real data, Notes on Intuitionistic Fuzzy Sets, 28 (3) (2022), 306-318.   
DOI 10.7546/nifs.2022.28.3.306-318   
[4] A. Michalíková – E. Szmidt – P. Vassilev, Modifications of Łukasiewicz´s intuitionistic fuzzy implication, Notes on Intuitionistic Fuzzy Sets, 27 (3) (2021), 32-39.   
DOI 10.7546/nifs.2021.27.3.32-39   
[5] J. Kaczpryk – K. Čunderlíková – N. Angelova – K. T. Atanassov, Modifications of the Goguen´s intuitionistic fuzzy implication, Notes on Intuitionistic Fuzzy Sets, 27 (4) (2021), 20-29. DOI 10.7546/nifs.2021.27.4.20-29   
[6] K. Čunderlíková, Intuitionistic fuzzy probability and convergence of intuitionistic fuzzy observables, Notes on Intuitionistic Fuzzy Sets, 28 (4) (2022), 381–396.   
DOI 10.7546/nifs.2022.28.4.381-396   
[7] N. Angelova – K. Čunderlíková – E. Szmidt - K. T. Atanassov, Intuitionistic fuzzy interpretations of formula (A -> B) -> ((-,A ->B) -> B), Notes on Intuitionistic Fuzzy Sets, 28 (4) (2022), 428–435. DOI 10.7546/nifs.2022.28.4.428-435   
   
   
**2.) Matematické modely neurčitosti a ich aplikácie** *(Mathematical models of uncertainty and their applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Alžbeta Michalíková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Poľsko: 1, Slovensko: 1 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
V rámci projektu sme skúmali podmienenú strednú hodnotu na intuicionistických fuzzy množinách v súvislosti s intuicionistickou fuzzy pravdepodobnosťou a konvergenciu funkcií niekoľkých intuicionistických fuzzy pozorovateľných. Zaoberali sme sa tiež reláciami intuicionistických fuzzy ekvivalencií a ich použitím pre reálne údaje. Takisto sme skúmali použitie niektorých funkcií definovaných na intuicionistických fuzzy množinách na klasifikáciu obrázkov pneumatík. Výsledkom výskumu sú 4 publikácie uvedené nižšie.   
   
 1. K. Čunderlíková, Conditional Intuitionistic Fuzzy Mean Value in Connection with IF-Probability, Uncertainty and Imprecision in Decision Making and Decision Support: New Advances, Challenges, and Perspectives. IWIFSGN, BOS/SOR 2020 (Atanassov K.T. et al. (eds)). Lecture Notes in Networks and Systems – Cham: Springer, 2022, vol. 338, p. 51-59, ISBN 978-3-030-95928-9, DOI: 10.1007/978-3-030-95929-6\_4   
  
2. K. Čunderlíková, Convergence of functions of several intuitionistic fuzzy observables,   
(submited to the Proceedings of IWIFSGN‘2022 conference)   
  
3. A. Michalíková, Some notes on intuitionistic fuzzy equivalence relations and their use on real data, Notes on Intuitionistic Fuzzy Sets, 28 (3) (2022), 306-318. DOI: 10.7546/nifs.2022.28.3.306-318   
4. A. Michalíková, Classification of Images by Using Distance Functions Defined on Intuitionistic Fuzzy Sets, Advances in Intelligent Systems and Computing.Advances and New Developments in Fuzzy Logic and Technology. Eds. Krassimir T. Atanassov, Vassia Atanassova, Janusz Kacprzyk, Andrzej Kaluszko, Maciej Krawczak, Jan W. Owsinski, Sotir S. Sotirov, Evdokia Sotirova, Eulalia Szmidt, Slawomir Zadrozny. - Cham : Springer, 2021, vol. 1308, p. 66-74. ISBN 978-3-030-77715-9. ISSN 2194-5357, DOI: 10.1007/978-3-030-77716-6\_6   
   
   
**Programy: Medzivládna dohoda**

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

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

*Dosiahnuté výsledky:*   
Boli pripravené programy na automatické spracovanie textov. Prvé výsledky sú schválené na publikovanie.   
   
Publikácia:   
Mačutek, J., Koščová, M., Kelih, E., Čech, R. Frequency and morphological behavior of nouns in Czech and Russian. Bohemistyka (schválené, vyjde v roku 2023).   
   
**Domáce projekty**

**Programy: VEGA**

**1.) Modely a algoritmy pre výpočty s neúplnou informáciou** *(Models and algorithms for computing with incomplete information)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stefan Dobrev |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 1/0601/20 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FMFI UK |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 2026 € |

*Dosiahnuté výsledky:*

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

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0127/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 12282 € |

*Dosiahnuté výsledky:*   
1. ABBAS, Mohamed I. - FEČKAN, Michal\*\*. Investigation of an Implicit Hadamard Fractional Differential Equation with Riemann-Stieltjes Integral Boundary Condition. In Mathematica Slovaca, 2022, vol. 72, no. 4, p. 925-934.   
2. BAGHANI, Hamid - FEČKAN, Michal - FAROKHI-OSTAD, Javad - ALZABUT, Jehad. New Existence and Uniqueness Result for Fractional Bagley-Torvik Differential Equation. In Miskolc Mathematical Notes, 2022, vol. 23, no. 2, p. 537-549.   
3. BATTELLI, Flaviano - FEČKAN, Michal. General Melnikov Approach to Implicit ODE´s. In Journal of Dynamics and Differential Equations, 2022, vol. 34, p. 365-397.   
4. BENIA, Kheireddine - BEDDANI, Moustafa - FEČKAN, Michal - HEDIA, Benaouda\*\*. Existence result for a problem involving ?-Riemann-Liouville fractional derivative on unbounded domain. In Differential Equations and Applications, 2022, vol. 14, no. 1, p. 83-97.   
5. CAO, Xiaokai - FEČKAN, Michal - SHEN, Dong - WANG, JinRong\*\*. Iterative learning control for impulsive multi-agent systems with varying trial lengths. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 3, p. 445-465. .   
6. DILNA, Nataliya\*\* - FEČKAN, Michal. Exact Solvability Conditions for the Non-Local Initial Value Problem for Systems of Linear Fractional Functional Differential Equations. In Mathematics, 2022, vol. 10, art. no. 1759.   
7. DILNA, Nataliya. D-stability of the model of the Stieltjes string related to the functional differential equations. In Examples and Counterexamples, 2022, vol. 2, art. nr. 100092. ISSN 2666-657X. Dostupné na: https://doi.org/10.1016/j.exco.2022.100092 Typ: ADEB   
8. DILNA, Nataliya\*\* - GROMYAK, M - LESHCHUK, S. Unique Solvability of the Boundary-Value Problems for Nonlinear Fractional Functional Differential Equations. In Journal of Mathematical Sciences, 2022, vol. 265, no. 4, p. 577-588. (2021: 0.357 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: https://doi.org/10.1007/s10958-022-06072-8 Typ: ADMB   
9. FEČKAN, Michal - LIU, Kui - WANG, JinRong\*\*. (?, T)-periodic solutions of impulsive evolution equations. In Evolution Equations and Control Theory, 2022, vol. 11, no. 2, p. 415-437.   
10. FEČKAN, Michal - WANG, JinRong\*\* - ZHANG, W. Existence of Solutions for Nonlinear Elliptic Equations Modeling the Steady Flow of the Antarctic Circumpolar Current. In Differential and Integral Equations, 2022, vol. 35, no. 5-6, p. 277-298.   
11. FEČKAN, Michal - LI, Qixiang - WANG, JinRong\*\*. Existence and Ulam-Hyers stability of positive solutions for a nonlinear model for the Antarctic Circumpolar Current. In Monatshefte für Mathematik, 2022, vol. 197, no. 3, p. 419-434.   
12. FEČKAN, Michal - POSPÍŠIL, Michal - DANCA, Marius-F. - WANG, JinRong. Caputo delta weakly fractional difference equations. In Fractional Calculus and Applied Analysis, 2022, vol. 25, p. 2222-2240.   
13. FEČKAN, Michal\*\* - GUAN, Yi - WANG, JinRong. Spatial wave solutions for generalized atmospheric Ekman equations. In Electronic Journal of Qualitative Theory of Differential Equations, 2022, vol. 63, p. 1-22.   
14. FEČKAN, Michal - URAZBOEV, Gayrat - BALTAEVA, Iroda. Inverse Scattering and Loaded Modified Korteweg-de Vries Equation. In Journal of Siberian Federal University. Mathematics and Physics, 2022, vol. 15, no. 2, p. 176-185.   
15. FEČKAN, Michal - DANCA, Marius-F.\*\*. Stability, Periodicity, and Related Problems in Fractional-Order Systems : Editorial. In Mathematics, 2022, vol. 10, art. no. 2040.   
16. GUAN, Yi - FEČKAN, Michal - WANG, JinRong. Explicit solution of atmospheric Ekman flows with some types of Eddy viscosity. In Monatshefte für Mathematik, 2022, vol. 197, p. 71-84.   
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21. LASSOUED, Dhaou - FEČKAN, Michal\*\*. Boundedness and Almost Periodicity of Solutions of Linear Differential Systems. In Mathematica Slovaca, 2022, vol. 72, no. 5, p. 1203-1214.   
22. LI, Qixiang - FEČKAN, Michal - WANG, JinRong. Monotonicity of horizontal fluid velocity and pressure gradient distribution beneath equatorial Stokes waves. In Monatshefte für Mathematik, 2022, vol. 198, no. 4, p. 805-817.   
23. LIU, Kui - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong. (?, c)-periodic solutions for time-varying non-instantaneous impulsive differential systems. In Applicable Analysis, 2022, vol. 101, no. 15, p. 5469-5489.   
24. LIU, Kui - FEČKAN, Michal - WANG, JinRong. A Class of (?, T)-Periodic Solutions for Impulsive Evolution Equations of Sobolev Type. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 2743-2763.   
25. LIU, Rui - FEČKAN, Michal\*\* - O´REGAN, Donal - WANG, JinRong. Controllability Results for First Order Impulsive Fuzzy Differential Systems. In Axioms, 2022, vol. 11, art. no. 471.   
26. LUO, Mei - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. g-Expectation for Conformable Backward Stochastic Differential Equations. In Axioms, 2022, vol. 11, no. 2, art. no. 75.   
27. MIAO, Fahe - FEČKAN, Michal - WANG, JinRong. Constant vorticity water flows in the modified equatiorial ?-plane approximation. In Monatshefte für Mathematik, 2022, vol. 197, p. 517-527.   
28. MIAO, Fahe - FEČKAN, Michal - WANG, JinRong. Exact solution and instability for geophysical edge waves. In Communications on Pure and Applied Analysis, 2022, vol. 21, no. 7, p. 2447-2461.   
29. QIU, Wanzheng - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong. Convergence Analysis for Iterative Learning Control of Conformable Impulsive Differential Equations. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 193-212.   
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31. WANG, JinRong - FEČKAN, Michal\*\* - GUAN, Yi. Constant Vorticity Atmospheric Ekman Flows in the f-Plane Approximation. In Discrete and Continuous Dynamical Systems - Series B, 2022, vol. 27, no. 11, p. 6619-6630.   
32. WANG, JinRong - FEČKAN, Michal - GUAN, Yi. Constant Vorticity Ekman Flows in the ?-Plane Approximation. In Journal of Mathematical Fluid Mechanics, 2021, vol. 23, art. nr. 85.   
33. XIAO, Guanli - FEČKAN, Michal - WANG, JinRong\*\*. On the averaging principle for stochastic differential equations involving Caputo fractional derivative. In Chaos, 2022, vol. 32, art. nr. 101105.   
34. YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Atmospheric Ekman Flows with Uniform Density in Ellipsoidal Coordinates: Explicit Solution and Dynamical Properties. In Journal of Geometric Mechanics, 2022, vol. 14, no. 3, p. 473-490.   
35. YOU, Zhongli - FEČKAN, Michal - WANG, JinRong - O´REGAN, Donal. Relative controllability of impulsive multi-delay differential systems. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 1, p. 70-90.   
36. ZHANG, Wenlin - FEČKAN, Michal - WANG, JinRong\*\*. The Existence of Weak Solutions for the Vorticity Equation Related to the Stratosphere in a Rotating Spherical Coordinate System. In Axioms, 2022, vol. 11, art. no. 347.   
   
Abstrakty:   
   
1. DILNA, Nataliya. Exact solvability conditions for the model with a discrete memory effect. In International Conference on Mathematical Analysis and Aplications in Science and Engineering - Book of Extended Abstracts : ICMA2SC´22, p. 405-407. Typ: AFC   
2. DILNA, Nataliya. D-stability of the initial value problem for symmetric nonlinear functional differential equations. In Book of Abstracts : EQUADIFF 15 [elektronický zdroj], p. 157. Názov z internetu. Požaduje sa internet Typ: AFG   
   
   
**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: 4897 € |

*Dosiahnuté výsledky:*   
- Ľ. Holá, A. K. Mirmostafaee, Joint continuity of separately continuous mappings,   
Topology and its Applications 307 (2022) 107881   
   
- V našom článku Ľ. Holá, B. Novotný, FRÉCHET SUBSPACES OF MINIMAL USCO AND MINIMAL CUSCO MAPS sme študovali topológie rovnomernej konvergencie na bornológiach na priestore minimálnych usco a minimálnych cusco zobrazení. Našli sme postačujúce podmienky pre metrizovateľnosť a úplnu metrizovateľnosť týchto priestorov. Študovali sme tiež Frechetovske podpriestory minimálnych usco a minimálnych cusco zobrazení.   
   
- Ľ. Holá, D. Holý a B. Novotný v práci, Spaces of minimal usco and cusco maps as topological vector spaces, študovali topológiu rovnomernej konvergencie na kompaktoch na priestoroch minimálnych usco a cusco zobrazení. Dokázali, že priestory minimálnych usco a minimálnych cusco zobrazení z lokálne kompaktného priestoru do Frechetovho priestoru sú izomorfné ako topologické vektorové priestory. Keď definičný obor je hemikompakt, oba priestory sú Frechetove.

Práca bola prijatá na publikovanie ako kapitola v knihe Advances in topology and their interdisciplinary applications, Springer   
   
**4.) Matematické modely neklasických javov a neurčitosti** *(Mathematical models of non-classical events and uncertainty)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0142/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 10202 € |

*Dosiahnuté výsledky:*   
Publikácie:   
   
1. A. Bluhm, A. Jenčová, and I. Nechita, Incompatibility in general probabilistic theories, generalized spectrahedra, and tensor norms, Communications in Mathematical Physics 393.3 (2022): 1125-1198, https://doi.org/10.1007/s00220-022-04379-w   
   
2. A. Jenčová, S. Pulmannová, Spectral resolutions in effect algebras, Quantum 6 (2022): 849, https://doi.org/10.22331/q-2022-11-03-849   
   
3. A. Jenčová, Assemblages and steering in general probabilistic theories, J. Phys. A:   
Math. Theor. 55 (2022), 434001, https://doi.org/10.1088/1751-8121/ac97ce   
   
4. A. Dvurečenskij, D. Lachman, n-dimensional observables on k-perfect MV-algebras and k-perfect effect algebras I. Characteristic points, Fuzzy Sets and Systems 442 (2022), 1-16   
   
5. A. Dvurečenskij, O. Zahiri, Pierce sheaves of pseudo EMV-algebras, Soft Computing, 26 (2022), 8351-8369   
   
6. A. Dvurečenskij, States on weak pseudo EMV-algebras.II. Representations of states, Iranian Journal of Fuzzy Systems, 19 (2022), 17-26   
   
7. A. Dvurečenskij, D. Lachman, n-dimensional observables on k-perfect MV-algebras and k-perfect effect algebras II. One-to-one correspondence, Fuzzy Sets and Systems, 442 (2022), 17-42   
   
8. A. Dvurečenskij, States on weak pseudo EMV-algebras I. States and states morphisms, Iranian Journal of Fuzzy Systems, 19 (2022), 1-15   
   
9. A. Dvurečenskij, D. Lachman: Homogeneous Effect Algebras and Observables vs Spectral Resolutions,   
International Journal of Theoretical Physics, 61 (2022), art. nr. 214,   
   
10. D. Hliněná and M. Kalina, A New Construction for t-Norms and their Application to an Open Problem of Alsina, Frank and Schweizer, Fuzzy Sets and Systems 451 (2022), pp. 16-27, doi:10.1016/j.fss.2022.06.002   
   
11. G. Jenča, Orthomodular posets are algebras over bounded posets with involution, Soft Computing, 26 (2022), 491-498   
   
   
**5.) Popisná a výpočtová zložitosť formálnych jazykov** *(Descriptive and Computational Complexity of Formal Languages)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | VEGA 2/0132/19 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 6340 € |

*Dosiahnuté výsledky:*   
1. HOSPODÁR, Michal - OLEJÁR, Viktor. The Cut Operation in Subclasses of Convex Languages : Extended Abstract. In Implementation and Application of Automata : Conference proceedings CIAA 2022. - Cham, Switzerland : Springer International Publishing, 2022, 2022, vol. 13266, p. 152-164. (2021: 0.407 - SJR, Q2 - SJR). ISBN 978-3-031-07468-4. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-07469-1\_12   
   
2. HOSPODÁR, Michal - MLYNÁRČIK, Peter - OLEJÁR, Viktor. Operations on Subregular Languages and Nondeterministic State Complexity. In Descriptional Complexity of Formal Systems : Conference proceedings DCFS 2022. - Cham, Switzerland : Springer International Publishing, 2022, 2022, vol. 13439, p. 112-126. (2021: 0.407 - SJR, Q2 - SJR). ISBN 978-3-031-13256-8. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-13257-5\_9   
   
**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: 1632 € |

*Dosiahnuté výsledky:*   
KOCHOL, M.: Polynomials counting nowhere-zero chains in graphs, The Electronic Journal of Combinatorics 29(1) (2022), #P1.19 (ADCA).   
   
**7.) Rozdelenia pravdepodobnosti a ich aplikácie v modelovaní a testovaní** *(Probability Distributions and their Applications in Modeling and Testing)*

|  |  |
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| **Zodpovedný riešiteľ:** | Ján Mačutek |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0096/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | VEGA SAV: 6285 € |

*Dosiahnuté výsledky:*   
Čech, R., Mačutek, J., Kubát, M., Koščová, M. (2022). Does an author leave a syntactic footprint? In: Misuraca, M., Scepi, G., Spano, M. (eds.), Proceedings of the 16th International Conference on Statistical Analysis of Textual Data. Volume 1 (pp. 221-228). Napoli: VADISTAT Press.   
   
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PALENČÁR, J. - PALENČÁR, R. - CHYTIL, M. - WIMMER, Gejza, ml. - WIMMER, Gejza - WITKOVSKÝ, Viktor\*\*. ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument. In Measurement Science Review, 2022, vol. 22, no. 6, p. 293-307.   
   
WITKOVSKÝ, Viktor - WIMMER, Gejza. PolyCal - Matlab algorithm for comparative polynomial calibration and its applications. In Advanced Mathematical and Computational Tools in Metrology and Testing XII. - World Scientific Publishing ; Singapur, 2022, p. 501-512.   
   
   
**8.) Grafové invarianty, symetrie a ohodnotenia** *(Graph invariants, symmetries and labellings)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0078/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 1545 € |

*Dosiahnuté výsledky:*   
1. R. Nedela, M. Škoviera, Cyclic connectivity, edge-elimination, and the twisted Isaacs graphs, Journal of Combinatorial Theory, Series B 155 (2022), 17-44.   
 DOI: https://doi.org/10.1016/j.jctb.2022.01.007   
   
2. J. Karabáš, E. Máčajová, R. Nedela, M. Škoviera, Girth, oddness, and colouring defect of snarks, Discrete Mathematics 345 (2022), art. nr. 113040.   
 DOI: https://doi.org/10.1016/j.disc.2022.113040

**9.) Konvergencia blokových algoritmov pre kanonické dekompozície matíc**

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| **Zodpovedný riešiteľ:** | Gabriel Okša |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 2/0015/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 4183 € |

*Dosiahnuté výsledky:*   
OKŠA, Gabriel - YAMAMOTO, Yusaku - VAJTERŠIC, Marián. Convergence to Singular Triplets in the Two-Sided Block-Jacobi SVD Algorithm with Dynamic Ordering. In Siam Journal on Matrix Analysis and Applications, 2022, vol. 43, no. 3, p. 1238-1262. (2021: 1.908 - IF, Q2 - JCR, 1.320 - SJR, Q1 - SJR). ISSN 1095-7162. Dostupné na: https://doi.org/10.1137/21M1411895   
   
**10.) Algebrické a topologické aspekty agregačných funkcií**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Jozef Pócs |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | VEGA 2/0097/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 8162 € |

*Dosiahnuté výsledky:*   
1. R. Halaš, R. Mesiar, J. Pócs: On the number of aggregation functions on finite chains as a generalization of Dedekind numbers, online 1 December 2022, https://doi.org/10.1016/j.fss.2022.11.012   
   
2. R. Halaš, J. Pócs, J. Pócsová: Remarks on Sugeno integrals on bounded lattices, Mathematics 2022, 10(17), 3078; https://doi.org/10.3390/math10173078   
   
3. R. Halaš, J. Pócs, J. Pócsová: On Join Dense Subsets of Certain Families of Aggregation Functions, Mathematics 2023, 11(1), 14; https://doi.org/10.3390/math11010014   
   
4. Ľ. Antoni, P Eliaš, S. Krajči, O. Krídlo: Heterogeneous formal context and its decomposition by heterogeneous fuzzy subsets, Fuzzy Sets and Systems 451 (2022), 361-384. https://doi.org/10.1016/j.fss.2022.05.015   
   
5. E. Halušková: On discrete properties of continuous monotone functions, accepted in Miskolc Mathematical Notes

**11.) Drevený píšťalový fond historických organových pozitívov na Slovensku** *(Wooden pipe configuration of historic organ positives in Slovakia)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Andrej Štafura |
| **Zodpovedný riešiteľ v organizácii SAV:** | Ján Haluška |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 2/0106/19 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav hudobnej vedy SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 6 - Slovensko: 6 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
Skúmal sa   
 (1) organový zvuk ako usporiadaná Hilbertova vektorová algebra Fourierových radov (tónov) nad reálnymi číslami v jednom registri. Operácie sčítania a násobenia boli odvodené z kvintového kruhu,   
 (2) dve usporiadania - lineárne, kvintový kruh,   
 (3) podalgebry a invertibilné prvky,   
 (4) 6 typov zovšeobecnených komplexných eliptických čísel,   
 (5) rovnaký timbre tónov v jednom registri,   
 (6) organový zvuk množiny registrov píšťal s konštantnou menzúrou je lineárna varieta nad reálnymi číslami asociovaná s principálovým registrom.   
   
**12.) Klasifikácia ansámblami z neurónových sietí** *( Classification using ensembles of neural networks)*

|  |  |
| --- | --- |
| **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: 1426 € |

*Dosiahnuté výsledky:*   
1. ŠUCH, Ondrej - FABRICIUS, René - TARÁBEK, Peter. Introducing students to out-of-distribution detection with deep neural networks. In ICETA 2022 Proceedings : Information and Communication Technologies in Learning. Ed. František Jakab. - New York, USA : IEEE, 2022, p. 621-627. ISBN 979-8-3503-2032-9.   
   
**13.) Nové trendy v teórii agregovania a ich aplikácie**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 1/0006/19 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Stavebná fakulta STU |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 1929 € |

*Dosiahnuté výsledky:*   
1. FERNANDEZ-PERALTA, Raquel - MASSANET, Sebastia - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MIR, Arnau. A general framework for the characterization of (S,N)-implications with a non-continuous negation based on completions of t-conorms. In Fuzzy Sets and Systems, 2022, vol. 441, p. 1-32. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2021.06.009   
   
2. MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of idempotent n-uninorms. In Fuzzy Sets and Systems, 2022, vol. 427, p. 1-22. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2020.12.019   
   
3. MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterizing Functions of n-Uninorms With Continuous Underlying Functions. In IEEE Transactions on Fuzzy Systems, 2022, vol. 30, no. 5, p. 1239-1247. (2021: 12.253 - IF, Q1 - JCR, 4.080 - SJR, Q1 - SJR). ISSN 1063-6706. Dostupné na: https://doi.org/10.1109/TFUZZ.2021.3057231   
   
4. MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - MESIAR, Radko - SU, Y. Ordinal sum constructions for aggregation functions on the real unit interval. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 1, p. 83-96. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: https://doi.org/10.22111/IJFS.2022.6553   
   
5. MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Commutative, associative and non-decreasing functions continuous around diagonal. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 2, p. 31-48. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: https://doi.org/10.22111/IJFS.2022.6786   
   
   
**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: 25877 € |

*Dosiahnuté výsledky:*   
1. A. Dvurečenskij, States on weak pseudo EMV-algebras. I. States and states morphisms, Iranian J. Fuzzy Systems 19 (2022), 1–15.   
   
2. A. Dvurečenskij, States on weak pseudo EMV-algebras. II. Representations of states, Iranian J. Fuzzy Systems 19 (2022), 17–26.   
   
3. A. Dvurečenskij, O. Zahiri, Pierce sheaves of pseudo EMV-algebras, Soft Computing 26 (2022), 8351–8369.   
   
4. A. Dvurečenskij, D. Lachman, Homogeneous effect algebras and observables vs spectral resolutions, Inter. J. Theor. Phys. 61 (2022), Art. Num. 214.   
   
5. A. Dvurečenskij, A short note on categorical equivalences of proper weak pseudo EMV-algebras, J. Algebraic Hyperstructures and Logical Algebras 3 (2022), 35–44.   
   
6. A. Jenčová, Assemblages and steering in general probabilistic theories, J. Phys. A: Math. Theor. 55 (2022), 434001   
   
7. R. Halaš, J. Pócs, J. Pócsová, Remarks on Sugeno integrals on bounded lattices, Mathematics 2022, 10(17), 3078   
   
8. G. Jenča: Orthomodular posets are algebras over bounded posets with involution, Soft Computing 26 (2022), 491–498   
   
**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:*   
- Ľubica Holá, Alireza Kamel Mirmostafaee, Joint continuity of separately continuous mappings, Topology and its Applications, 2022, 107881   
   
- V našom článku Ľ. Holá, B. Novotný, FRÉCHET SUBSPACES OF MINIMAL USCO AND MINIMAL CUSCO MAPS sme študovali topológie rovnomernej konvergencie na bornológiach na priestore minimálnych usco a minimálnych cusco zobrazení. Našli sme postačujúce podmienky pre metrizovateľnosť a úplnú metrizovateľnosť týchto priestorov. Študovali sme tiež Frechetovské podpriestory minimálnych usco a minimálnych cusco zobrazení.   
   
- Ľ. Holá, D. Holý a B. Novotný v práci, Spaces of minimal usco and cusco maps as topological vector spaces, študovali topológiu rovnomernej konvergencie na kompaktoch na priestoroch minimálnych usco a cusco zobrazení. Dokázali, že priestory minimálnych usco a minimálnych cusco zobrazení z lokálne kompaktného priestoru do Frechetovho priestoru sú izomorfné ako topologické vektorové priestory. Keď definičný obor je hemikompakt, oba priestory sú Frechetove.

Práca bola prijatá na publikovanie ako kapitola v knihe Advances in topology and their interdisciplinary applications, Springer   
**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: 3600 € |

*Dosiahnuté výsledky:*   
1. R. Nedela, M. Škoviera, Cyclic connectivity, edge-elimination, and the twisted Isaacs graphs, Journal of Combinatorial Theory, Series B 155 (2022), 17-44.   
 DOI: https://doi.org/10.1016/j.jctb.2022.01.007   
   
2. J. Karabáš, E. Máčajová, R. Nedela, M. Škoviera, Girth, oddness, and colouring defect of snarks, Discrete Mathematics 345 (2022), art. nr. 113040.   
 DOI: https://doi.org/10.1016/j.disc.2022.113040   
   
**17.) 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: 6262 € |

*Dosiahnuté výsledky:*   
   
**18.) 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: 4248 € |

*Dosiahnuté výsledky:*   
Jedným z hlavných cieľov našich výskumov bolo študovať problém lineárnej porovnávacej kalibrácie a analyzovať neistotu výsledkov meraní získaných pomocou kalibrovaného prístroja. Kalibrácia, odhad parametrov a následná analýza neistoty výsledkov meraní získaných pomocou kalibrovaného prístroja boli vykonané podľa technickej špecifikácie ISO 28037:2010 (ISO) a porovnané s prístupom založeným na metóde Monte Carlo (MCM) podľa JCGM 101:2008 ( GUM S1) a JCGM 102:2011 (GUM S2). Naša simulačná štúdia sa zameriava na empirické pravdepodobnosti pokrytia intervalov pokrytia ISO a MCM a vplyv veľkosti vzorky, ako aj na konzistentnosť výsledkov s ohľadom na rôzne kombinácie neistôt meraní. V nedávnom článku Klauenbergovej a kol. (Measurement 2022), autori zistili, že matica neistoty odhadov parametrov odvodená z ISO sa striktne neriadi zákonom šírenia neistoty (LPU), ako je definovaný v JCGM 100:2008 (GUM) a jeho doplnkoch. To môže viesť k významným rozdielom najmä v situáciách s veľkými kombinovanými neistotami merania príslušných premenných. Autori uvádzajú, že neistoty parametrov kalibračnej priamky správne odvodených na základe LPU sú vždy väčšie ako neistoty založené na prístupe ISO. To je však v rozpore s našimi predbežnými pozorovaniami, že intervaly pokrytia založené na ISO majú tendenciu byť trochu konzervatívne (t. j. majú vyššiu pravdepodobnosť pokrytia skutočných parametrov, ako sa očakávalo). To si vyžaduje ďalšie skúmanie a porovnanie empirických pravdepodobností pokrytia a iných štatistických vlastností navrhovaných prístupov pre oveľa širší rozsah návrhov.   
Výsledky boli prednesené v príspevku   
Witkovský V., Wimmer G.: Linear Calibration Methods and the Measurement Uncertainty: Comparison of the Empirical Coverage Probabilities, MATHMET 2022, Paríž, 2-4. 11. 2022   
   
Kvantifikácia neistoty je dôležitou súčasťou každého procesu merania a je nevyhnutná na porovnávanie výsledkov získaných rôznymi metódami, prístrojmi alebo laboratóriami. Bežné metódy, ako sú napríklad nelineárne metódy najmenších štvorcov, nie sú schopné dostatočne dobre spracovať neistoty v závislých aj nezávislých premenných. Vyvinuli sme a podstatne vylepšili nový algoritmus pre hodnotenie neistoty v prístrojových meraniach inštrumentovanej indentácie - OEFPIL. Výrazne sme zrýchlili novú metódu výpočtu pre fitovanie nelineárnej funkcie na dáta so všeobecnou kovariančnou štruktúrou a aplikovali sme túto metódu na Oliver-Pharrovu analýzu kriviek. Realizovali sme porovnanie medzi tromi rôznymi metódami fitovania (NLS, ODR a OEFPIL). OEFPIL nie je citlivá na výber závislých a nezávislých premenných. Výsledky budeme publikovať vo vedeckých časopisoch   
   
   
**19.) Výskum možnosti digitálnej transformácie kontinuálnych dopravných systémov** *(Research the possibility of digital transformation of continuous transport systems)*

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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2022 / 30.6.2026 |
| **Evidenčné číslo projektu:** | APVV-21-0195 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 1246 € |

*Dosiahnuté výsledky:*

**20.) Vývoj inovatívnych metód pre primárnu metrológiu momentu sily aplikáciou silových účinkov konvenčnej etalonáže** *(Development of innovative methods for primary metrology torque forces by force effects of the conventional standards)*

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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2019 / 30.6.2022 |
| **Evidenčné číslo projektu:** | APVV-18-0066 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Slovenská legálna metrológia, n.o. |
| **Počet spoluriešiteľských inštitúcií:** | 4 - Slovensko: 4 |
| **Čerpané financie:** | APVV: 1820 € |

*Dosiahnuté výsledky:*   
WITKOVSKÝ, Viktor – WIMMER, G. PolyCal – Matlab algorithm for comparative polynomial calibration and its applications. In Advanced Mathematical and Computational Tools in Metrology and Testing XII: Series on Advances in Mathematics for Applied Sciences – Vol. 90. Editors: F. Pavese, A.B. Forbes, N.F. Zhang, A.G. Chunovkina. – World Scientific, 2022, p. 501-512. ISBN 978-981-124-237-3.   
   
   
CHUNOVKINA, A. – STEPANOV, A. – WIMMER, G. On estimation of linear regression confidence bands: Analytical solution and Monte Carlo simulation, In: Advanced Mathematical and Computational Tools in Metrology and Testing XII : Series on Advances in Mathematics for Applied Sciences Vol. 90. Editors: F. Pavese, A.B. Forbes, N.F. Zhang, A.G. Chunovkina. – World Scientific, 2022, p. 188-196. ISBN 978-981-124-237-3.   
   
• Ostatné vedecké publikácie. Abstrakty, publikácie na zahraničných konferenciách   
   
WITKOVSKÝ, V. – WIMMER, G. A note on computing the exact distribution of the bootstrap mean. In: Antoch, J., Dohnal, G., Hlubinka, D., editors, Sborník abstraktu. ROBUST 2022, 22. letní škola JČMF. Volyně, ČR, 12-17. jún, 2022, 17.   
   
WIMMER, G. – WITKOVSKÝ, V. Lineárny model v prípade nie normálnych rozdelení meraní, In: Antoch, J., Dohnal, G., Hlubinka, D., editors, Sborník abstraktu. ROBUST 2022, 22. letní škola JČMF. Volyně, ČR, 12-17. jún, 2022, 16.   
   
**21.) Pokročilé matematické a štatistické metódy pre meranie a metrológiu** *(Advanced mathematical and statistical methods for measument and metrology )*

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| **Zodpovedný riešiteľ:** | Viktor Witkovský |
| **Zodpovedný riešiteľ v organizácii SAV:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2022 / 31.12.2025 |
| **Evidenčné číslo projektu:** | APVV-21-0216 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav merania SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 7809 € |

*Dosiahnuté výsledky:*   
Zaoberali sme sa numerickými metódami na výpočet (presnej) distribúcie numerickou inverziou charakteristickej funkcie. Vyvinul sa k tomu nástroj Characteristics Functions Toolbox (CharFunTool) – algoritmus v softvéri MATLAB na vyhodnotenie charakteristic-kých funkcií a ich kombinácií a na ich numerickú inverziu. Zamerali sme sa aj na možné aplikácie založené na použití empirických charakteristických funkcií. Metóda je vhodná aj pre rýchly výpočet bootstrapovej distribúcie priemeru vzorky ako aj pre iné lineárne funkcie, napr. pre výberové momenty. Navrhovaná metóda je presná, keď sa aplikuje na mriežkové distribúcie (t. j. v ktorých každá možná hodnota môže byť vyjadrená v tvare a + bn, kde b ? 0 a n je celé číslo).   
Výsledky boli prednesené v príspevku   
Witkovský V., Wimmer G.: A note on computing the exact distribution of the bootstrap mean, ROBUST 2022, Volyně, 12-17. 6. 2022   
   
Analyzovali sme regulárny lineárny model Y\* = Xβ + ε\*, pričom sme predpokladali, že vektor chýb ε\* je známa lineárna kombinácia nezávislých náhodných premenných a rozdelenie každej z nich poznáme. Uvažovaný model patrí v metrológii medzi základné modely merania. Uvažujme lineárnu funkciu parametra β, teda θ = d’β. Jej najlepší nevychýlený lineárny odhad označme ^θ. Hustotu a distribučnú funkciu náhodnej veličiny ~θ = ^θ – θ stanovíme metódou CFA (Characteristic Function Approach) ako numerickú inverziu charakteristickej funkcie náhodnej veličiny ~θ. Na určenie hľadanej hustoty a/alebo distribučnej funkcie ~θ možno využiť softvér CharFunTool. Celý postup sme ilustrovali na modeli priameho merania jednej veličiny.   
Výsledky boli prednesené v príspevku   
Wimmer G., Witkovský V.: Lineárny model v prípade nie normálnych rozdelení meraní, ROBUST 2022, Volyně, 12-17. 6. 2022   
   
Jedným z hlavných cieľov našich výskumov bolo študovať problém lineárnej porovnávacej kalibrácie a analyzovať neistotu výsledkov meraní získaných pomocou kalibrovaného prístroja. Kalibrácia, odhad parametrov a následná analýza neistoty výsledkov meraní získaných pomocou kalibrovaného prístroja boli vykonané podľa technickej špecifikácie ISO 28037:2010 (ISO) a porovnané s prístupom založeným na metóde Monte Carlo (MCM) podľa JCGM 101:2008 ( GUM S1) a JCGM 102:2011 (GUM S2). Naša simulačná štúdia sa zameriava na empirické pravdepodobnosti pokrytia intervalov pokrytia ISO a MCM a vplyv veľkosti vzorky, ako aj na konzistentnosť výsledkov s ohľadom na rôzne kombinácie neistôt meraní. V nedávnom článku Klauenbergovej a kol. (Measurement 2022), autori zistili, že matica neistoty odhadov parametrov odvodená z ISO sa striktne neriadi zákonom šírenia neistoty (LPU), ako je definovaný v JCGM 100:2008 (GUM) a jeho doplnkoch. To môže viesť k významným rozdielom najmä v situáciách s veľkými kombinovanými neistotami merania príslušných premenných. Autori uvádzajú, že neistoty parametrov kalibračnej priamky správne odvodených na základe LPU sú vždy väčšie ako neistoty založené na prístupe ISO. To je však v rozpore s našimi predbežnými pozorovaniami, že intervaly pokrytia založené na ISO majú tendenciu byť trochu konzervatívne (t. j. majú vyššiu pravdepodobnosť pokrytia skutočných parametrov, ako sa očakávalo). To si vyžaduje ďalšie skúmanie a porovnanie empirických pravdepodobností pokrytia a iných štatistických vlastností navrhovaných prístupov pre oveľa širší rozsah návrhov.   
Výsledky boli prednesené v príspevku   
Witkovský V., Wimmer G.: Linear Calibration Methods and the Measurement Uncertainty: Comparison of the Empirical Coverage Probabilities, MATHMET 2022, Paríž, 2-4. 11. 2022   
   
- Skúmali sme rôzne aspekty a problémy lineárnej kalibrácie s chybami v oboch premenných. Prezentovali sme alternatívny prístup k odhadu parametrov a určovaniu matice neistoty a vysvetlili sme explicitný vzťah medzi približnými maticami neistoty založenými na technickej špecifikácii ISO 28037:2010 a zákonom šírenia neistoty (LPU) na základe JCGM 100:2008 (GUM) a jeho doplnkoch.   
- Uvažovali sme koncept lineárneho porovnávacieho kalibračného modelu, ako je uvedený v technickej špecifikácii ISO 28037:2010 a iteračný algoritmus na získanie vážených odhadov najmenších štvorcov (WTLS) parametrov modelu spolu s maticou neistôty pre parametre. Nazývame ju ISO maticou neistôt.   
- Zvažovali sme alternatívny, aj keď ekvivalentný prístup, v ktorom sú odhady parametrov modelu spolu s ich kovariančnou maticou určené za predpokladu, že regresný model chýb v premenných je správne (iteračne) linearizovaný a určili sme BLUE (najlepšie lineárne nevychýlené odhady) parametrov modelu spolu s ich kovariančnou maticou.   
- Porovnali sme maticu neistôt ISO s maticou neistoty LPU odvodenou z implicitného modelu merania a vytvorili sme medzi nimi jedinečný vzťah.   
Výsledky boli prednesené v príspevku   
Witkovský V., Wimmer G.: Comparison of Alternative Measurement Uncertainty Matrices for Parameters of the Straight-Line Calibration Function, KHARKIV NATIONAL UNIVERSITY OF RADIO ELECTRONICS, NATIONAL SCIENTIFIC CENTRE “INSTITUTE OF METROLOGY”, TECHNICAL UNIVERSITY OF SOFIA, UNION OF THE METROLOGISTS IN BULGARIA, KHARKIV, 7-8. 12. 2022   
   
Zaoberali sme sa problémom lineárnej porovnávacej kalibrácie, špeciálnym prípadom lineárnej kalibrácie, kde sú obe veličiny merané s chybami, a analýzou neistoty výsledkov merania získaných pomocou kalibrovaného prístroja. Koncept je vysvetlený podrobne pomocou kalibračného experimentu tlakového prevodníka a následnej analýzy neistôt merania. V tejto súvislosti sa kalibrácia a merania s kalibrovaným prístrojom vykonávajú podľa technickej špecifikácie ISO 28037:2010 (tu označovaná ako lineárna kalibrácia ISO), na základe približného lineárneho kalibračného modelu a aplikácie zákona šírenia neistoty (LPU) v tomto približnom modeli. Alternatívne sa odhady parametrov kalibračnej priamky, ich štandardné neistoty, intervaly pokrytia a súvisiace rozdelenia pravdepodobnosti získajú pomocou metódy Monte Carlo (MCM) založenej na zákone šírenia rozdelenia (LPD). Tu získame aj rozdelenia pravdepodobnosti a interval pokrytia pre veličiny namerané kalibrovaným prístrojom. Okrem toho, motivovaní štruktúrou modelu tohto konkrétneho príkladu, sme vykonali simulačnú štúdiu, ktorá prezentuje empirické pravdepodobnosti pokrytia intervalov pokrytia ISO a MCM a skúma vplyv veľkosti vzorky, t. j. počtu kalibračných bodov v rozsahu merania a rôznych kombinácií neistôt merania. Táto štúdia vo všeobecnosti potvrdzuje dobré vlastnosti a platnosť technickej špecifikácie ISO v uvažovanom (obmedzenom) rámci experimentálnych návrhov motivovaných aplikáciou v reálnom svete, s malými neistotami vo vzťahu k rozsahu merania. Tiež upozorňujeme na potenciálne slabiny tejto metódy, ktoré si vyžadujú zvýšenú pozornosť používateľov a zdôrazňujú potrebu ďalšieho výskumu v tejto oblasti.   
Výsledky boli publikované v   
Palenčár, J., Palenčár, R., Chytil, M., Wimmer, G., Wimmer, G., Witkovský, V.:   
ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument, Measurement Science Review. Vol. 22, no. 6, p. 293-307 (2022),   
IF 2021: 1.697, SJR Kvartil: Q3 ; JCR Kvartil: Q3, SLR: 0.376, WOS, SCOPUS,   
   
   
**Programy: Štrukturálne fondy EÚ Zdravotníctvo**

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

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| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.3.2022 / 30.9.2023 |
| **Evidenčné číslo projektu:** | NFP313010BWH2 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Trnavská univerzita v Trnave |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | - |

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

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

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

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

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

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| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.6.2022 / 31.12.2023 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | MÚ SAV, v. v. i.: 26844 € |

*Dosiahnuté výsledky:*   
- Príprava softvérového riešenia a rozhraní pre prenos údajov.   
- Príprava predikčných modelov na hodnotenie stavu pacientky.   
   
   
**25.) Model pre optimalizáciu prepravy zemného plynu** *(The optimization model of natural gas transportation)*

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

*Dosiahnuté výsledky:*   
   
   
 ***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách**

|  |  |
| --- | --- |
| ACB01 | PAŠTÉKA, Milan. Úvod do Galoisovej teórie. Rec. Jaroslav Hančl, Ladislav Mišík. 1. vyd. Bratislava : VEDA, vydavateľstvo SAV, 2021. 136 s. ISBN 978-80-224-1919-2 |

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

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| ADCA01 | ANTONI, Ľubomír\*\* - ELIAŠ, Peter - KRAJČI, Stanislav - KRÍDLO, Ondrej. Heterogeneous formal context and its decomposition by heterogeneous fuzzy subsets. In Fuzzy Sets and Systems, 2022, vol. 451, p. 361-384. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2022.05.015> |
| ADCA02 | BATTELLI, Flaviano\*\* - FEČKAN, Michal. General Melnikov Approach to Implicit ODE´s. In Journal of Dynamics and Differential Equations, 2022, vol. 34, p. 365-397. (2021: 1.819 - IF, Q1 - JCR, 1.173 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: <https://doi.org/10.1007/s10884-020-09859-y> |
| ADCA03 | BLUHM, Andreas - JENČOVÁ, Anna - NECHITA, Ion. Incompatibility in General Probabilistic Theories, Generalized Spectrahedra, and Tensor Norms. In Communications in Mathematical Physics, 2022, vol. 393, p. 1125-1198. (2021: 2.361 - IF, Q1 - JCR, 1.274 - SJR, Q1 - SJR). ISSN 0010-3616. Dostupné na: <https://doi.org/10.1007/s00220-022-04379-w> |
| ADCA04 | BOHNER, Martin - GRAEF, John R.\*\* - JADLOVSKÁ, Irena. Asymptotic Properties of Kneser Solutions to Third-Order Delay Differential Equations. In Journal of Applied Analysis and Computation, 2022, vol. 12, no. 5, p. 2024-2032. (2021: 1.429 - IF, Q2 - JCR, 0.433 - SJR, Q2 - SJR). ISSN 2156-907X. Dostupné na: <https://doi.org/10.11948/20210439> |
| ADCA05 | BOHNER, Martin - GRACE, Said R. - JADLOVSKÁ, Irena - KILIC, Nurten. Nonoscillatory Solutions of Higher-Order Fractional Differential Equations. In Mediterranean Journal of Mathematics, 2022, vol. 19, no. 3, art. no. 142. (2021: 1.305 - IF, Q2 - JCR, 0.593 - SJR, Q2 - SJR). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-022-02047-w> |
| ADCA06 | CAO, Xiaokai - FEČKAN, Michal - SHEN, Dong - WANG, JinRong\*\*. Iterative learning control for impulsive multi-agent systems with varying trial lengths. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 3, p. 445-465. (2021: 2.217 - IF, Q1 - JCR, 0.602 - SJR, Q2 - SJR). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2022.27.25475> |
| ADCA07 | DILNA, Nataliya\*\* - FEČKAN, Michal. Exact Solvability Conditions for the Non-Local Initial Value Problem for Systems of Linear Fractional Functional Differential Equations. In Mathematics, 2022, vol. 10, art. no. 1759. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10101759> |

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| ADCA08 | DVUREČENSKIJ, Anatolij\*\* - LACHMAN, Dominik. Homogeneous Effect Algebras and Observables vs Spectral Resolutions. In International Journal of Theoretical Physics, 2022, vol. 61, art. no. 214, p. 1-31. (2021: 1.308 - IF, Q4 - JCR, 0.313 - SJR, Q3 - SJR). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-022-05185-9> |
| ADCA09 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid\*\*. Pierce sheaves of pseudo EMV-algebras. In Soft Computing, 2022, vol. 26, p. 8351-8369. (2021: 3.732 - IF, Q2 - JCR, 0.879 - SJR, Q2 - SJR). ISSN 1432-7643. Dostupné na: <https://doi.org/10.1007/s00500-022-07271-w> |
| ADCA10 | DVUREČENSKIJ, Anatolij\*\* - LACHMAN, Dominik. n-dimensional observables on k-perfect MV-algebras and k-perfect effect algebras. I. Characteristic points. In Fuzzy Sets and Systems, 2022, vol. 442, p. 1-16. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2021.05.005> |
| ADCA11 | DVUREČENSKIJ, Anatolij\*\* - LACHMAN, Dominik. n-dimensional observables on k-perfect MV-algebras and k-perfect effect algebras. II. One-to-one correspondence. In Fuzzy Sets and Systems, 2022, vol. 442, p. 17-42. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2021.08.027> |
| ADCA12 | FEČKAN, Michal - POSPÍŠIL, Michal\*\* - DANCA, Marius-F. - WANG, JinRong. Caputo delta weakly fractional difference equations. In Fractional Calculus and Applied Analysis, 2022, vol. 25, p. 2222-2240. (2021: 3.451 - IF, Q1 - JCR, 1.435 - SJR, Q1 - SJR). ISSN 1311-0454. Dostupné na: <https://doi.org/10.1007/s13540-022-00093-5> |
| ADCA13 | FEČKAN, Michal - LI, Qixiang - WANG, JinRong\*\*. Existence and Ulam-Hyers stability of positive solutions for a nonlinear model for the Antarctic Circumpolar Current. In Monatshefte für Mathematik, 2022, vol. 197, no. 3, p. 419-434. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01618-5> |
| ADCA14 | FEČKAN, Michal - LIU, Kui - WANG, JinRong\*\*. (ω, T)-periodic solutions of impulsive evolution equations. In Evolution Equations and Control Theory, 2022, vol. 11, no. 2, p. 415-437. (2021: 1.169 - IF, Q2 - JCR, 0.606 - SJR, Q2 - SJR). ISSN 2163-2480. Dostupné na: <https://doi.org/10.3934/eect.2021006> |
| ADCA15 | FEČKAN, Michal - WANG, JinRong\*\* - ZHANG, W. Existence of Solutions for Nonlinear Elliptic Equations Modeling the Steady Flow of the Antarctic Circumpolar Current. In Differential and Integral Equations, 2022, vol. 35, no. 5-6, p. 277-298. (2021: 1.263 - IF, Q2 - JCR, 1.037 - SJR, Q1 - SJR). ISSN 0893-4983. Dostupné na internete: [https://www.researchgate.net/publication/358954590\_Existence\_of\_Solutions\_for\_Nonlinear\_Elliptic\_Equations\_Modeling\_the\_Steady\_Flow\_of\_the\_Antarctic\_Circumpolar\_Current](https://www.researchgate.net/publication/358954590_existence_of_solutions_for_nonlinear_elliptic_equations_modeling_the_steady_flow_of_the_antarctic_circumpolar_current) |
| ADCA16 | FEČKAN, Michal\*\* - GUAN, Yi - WANG, JinRong. Spatial wave solutions for generalized atmospheric Ekman equations. In Electronic Journal of Qualitative Theory of Differential Equations, 2022, vol. 63, p. 1-22. (2021: 1.316 - IF, Q2 - JCR, 0.407 - SJR, Q3 - SJR). ISSN 1417-3875. Dostupné na: <https://doi.org/10.14232/ejqtde.2021.1.63> |
| ADCA17 | FERNANDEZ-PERALTA, Raquel\*\* - MASSANET, Sebastia - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - MIR, Arnau. A general framework for the characterization of (S,N)-implications with a non-continuous negation based on completions of t-conorms. In Fuzzy Sets and Systems, 2022, vol. 441, p. 1-32. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2021.06.009> |
| ADCA18 | GRAEF, John R.\*\* - JADLOVSKÁ, Irena - TUNC, Ercan. Oscillation of Odd-Order Differential Equations with a Nonpositive Sublinear Neutral Term and Distributed Deviating Arguments. In Applicable Analysis and Discrete Mathematics, 2022, vol. 16, no. 2, p. 350-364. (2021: 1.414 - IF, Q1 - JCR, 0.807 - SJR, Q1 - SJR). ISSN 1452-8630. Dostupné na: [https://doi.org/10.2298/AADM200918012G](https://doi.org/10.2298/aadm200918012g) |
| ADCA19 | GRAEF, John R. - GRACE, Said R. - JADLOVSKÁ, Irena\*\* - TUNC, Ercan. Some New Oscillation Results for Higher-Order Nonlinear Differential Equations with a Nonlinear Neutral Term. In Mathematics, 2022, vol. 10, no. 16, art. no. 2997. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10162997> |
| ADCA20 | GUAN, Yi - FEČKAN, Michal - WANG, JinRong\*\*. Explicit solution of atmospheric Ekman flows with some types of Eddy viscosity. In Monatshefte für Mathematik, 2022, vol. 197, p. 71-84. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01551-7> |
| ADCA21 | HALAŠ, Radomír\*\* - PÓCS, Jozef - PÓCSOVÁ, Jana. Remarks on Sugeno Integrals on Bounded Lattices. In Mathematics, 2022, vol. 10, no. 17, art. no. 3078. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10173078> |
| ADCA22 | HOLÁ, Ľubica. There are 2c Quasicontinuous Non-Lebesgue Measurable Functions. In American mathematical monthly, 2021, vol. 128, no. 5, p. 457-460. (2020: 0.381 - IF, Q4 - JCR, 0.459 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0002-9890. Dostupné na: <https://doi.org/10.1080/00029890.2021.1895659> |
| ADCA23 | HOLÁ, Ľubica. There are 2c Quasicontinuous Non Borel Functions on Uncountable Polish Space. In Results in Mathematics, 2021, vol. 76, no. 3, art. no. 126. (2020: 1.199 - IF, Q2 - JCR, 0.742 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-6383. Dostupné na: <https://doi.org/10.1007/s00025-021-01440-3> |
| ADCA24 | CHEN, Dan - FEČKAN, Michal - WANG, JinRong\*\*. Linear quaternion-valued difference equations: Representation of solutions, controllability, and observability. In Journal of Mathematical Physics, 2022, vol. 63, art. no. 112701. (2021: 1.469 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/5.0100608> |
| ADCA25 | CHEN, Dan - FEČKAN, Michal - WANG, JinRong\*\*. Investigation of Controllability and Observability for Linear Quaternion-Valued Systems from Its Complex-Valued Systems. In Qualitative Theory of Dynamical Systems, 2022, vol. 21, art. no. 66. (2021: 0.931 - IF, Q3 - JCR, 0.358 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-022-00599-6> |
| ADCA26 | CHEN, Dan - FEČKAN, Michal - WANG, JinRong\*\*. On the Stability of Linear Quaternion-Valued Differential Equations. In Qualitative Theory of Dynamical Systems, 2022, vol. 21, no. 1, art. no. 9, p. 1-17. (2021: 0.931 - IF, Q3 - JCR, 0.358 - SJR, Q3 - SJR). ISSN 1575-5460. Dostupné na: <https://doi.org/10.1007/s12346-021-00540-3> |
| ADCA27 | JADLOVSKÁ, Irena\*\* - DŽURINA, Jozef - GRAEF, John R. - GRACE, Said R. Sharp oscillation theorem for fourth-order linear delay differential equations. In Journal of Inequalities and Applications, 2022, vol. 2022, art. no. 122. (2021: 2.021 - IF, Q1 - JCR, 0.596 - SJR, Q2 - SJR). ISSN 1029-242X. Dostupné na: <https://doi.org/10.1186/s13660-022-02859-0> |
| ADCA28 | JENČOVÁ, Anna. Assemblages and steering in general probabilistic theories. In Journal of Physics A: Mathematical and Theoretical, 2022, vol. 55, art. no. 434001. (2021: 2.331 - IF, Q1 - JCR, 0.760 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ac97ce> |
| ADCA29 | JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Spectral resolutions in effect algebras. In Quantum : the open journal for quantum science, 2022, vol. 6, art. no. 849. (2021: 6.439 - IF, Q1 - JCR, 2.713 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2022-11-03-849> |
| ADCA30 | KOCHOL, Martin. Interpretations of the Tutte and characteristic polynomials of matroids. In Journal of Algebraic Combinatorics, 2021, vol. 53, p. 1-9. (2020: 0.875 - IF, Q3 - JCR, 0.843 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0925-9899. Dostupné na: <https://doi.org/10.1007/s10801-019-00914-6> |
| ADCA31 | KOCHOL, Martin. Polynomials counting nowhere-zero chains in graphs. In The electronic journal of combinatorics, 2022, vol. 29, no. 1, p. 1-10. (2021: 0.690 - IF, Q3 - JCR, 0.724 - SJR, Q2 - SJR). ISSN 1077-8926. Dostupné na: <https://doi.org/10.37236/10445> |
| ADCA32 | LI, Qixiang - FEČKAN, Michal - WANG, JinRong\*\*. Monotonicity of horizontal fluid velocity and pressure gradient distribution beneath equatorial Stokes waves. In Monatshefte für Mathematik, 2022, vol. 198, no. 4, p. 805-817. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-022-01684-3> |
| ADCA33 | LIU, Kui - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong\*\*. (ω, c)-periodic solutions for time-varying non-instantaneous impulsive differential systems. In Applicable Analysis, 2022, vol. 101, no. 15, p. 5469-5489. (2021: 1.278 - IF, Q3 - JCR, 0.548 - SJR, Q2 - SJR). ISSN 0003-6811. Dostupné na: <https://doi.org/10.1080/00036811.2021.1895123> |
| ADCA34 | LIU, Qingmin - GRACE, Said R. - JADLOVSKÁ, Irena - TUNC, Ercan - LI, Tongxing\*\*. On the Asymptotic Behavior of Noncanonical Third-Order Emden-Fowler Delay Differential Equations with a Superlinear Neutral Term. In Mathematics, 2022, vol. 10, no. 16, art. no. 2902. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10162902> |
| ADCA35 | LIU, Rui - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. Ulam type stability for first-order linear and nonlinear impulsive fuzzy differential equations. In International Journal of Computer Mathematics, 2022, vol. 99, no. 6, p. 1281-1303. (2021: 1.750 - IF, Q2 - JCR, 0.519 - SJR, Q2 - SJR). ISSN 0020-7160. Dostupné na: <https://doi.org/10.1080/00207160.2021.1967940> |
| ADCA36 | LIU, Rui - FEČKAN, Michal\*\* - O´REGAN, Donal - WANG, JinRong. Controllability Results for First Order Impulsive Fuzzy Differential Systems. In Axioms, 2022, vol. 11, art. no. 471. (2021: 1.824 - IF, Q2 - JCR, 0.441 - SJR, Q3 - SJR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms11090471> |
| ADCA37 | LIU, Rui - FEČKAN, Michal\*\* - O´REGAN, Donal - WANG, JinRong. Controllability Results for First Order Linear Fuzzy Differential Systems. In Mathematics, 2022, vol. 10, art. no. 1193. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10071193> |
| ADCA38 | LUO, Mei - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. g-Expectation for Conformable Backward Stochastic Differential Equations. In Axioms, 2022, vol. 11, no. 2, art. no. 75. (2021: 1.824 - IF, Q2 - JCR, 0.441 - SJR, Q3 - SJR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms11020075> |
| ADCA39 | MAČUTEK, Ján\*\* - WIMMER, Gejza\* - KOŠČOVÁ, Michaela\*. On a Parametrization of Partial-Sums Discrete Probability Distributions. In Mathematics, 2022, vol. 10, no. 14, art. no. 2476. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10142476> |
| ADCA40 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of idempotent n-uninorms. In Fuzzy Sets and Systems, 2022, vol. 427, p. 1-22. (2021: 4.462 - IF, Q1 - JCR, 1.338 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: <https://doi.org/10.1016/j.fss.2020.12.019> |
| ADCA41 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterizing Functions of n-Uninorms With Continuous Underlying Functions. In IEEE Transactions on Fuzzy Systems, 2022, vol. 30, no. 5, p. 1239-1247. (2021: 12.253 - IF, Q1 - JCR, 4.080 - SJR, Q1 - SJR). ISSN 1063-6706. Dostupné na: [https://doi.org/10.1109/TFUZZ.2021.3057231](https://doi.org/10.1109/tfuzz.2021.3057231) |
| ADCA42 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong\*\*. Constant vorticity water flows in the modified equatiorial β-plane approximation. In Monatshefte für Mathematik, 2022, vol. 197, p. 517-527. (2021: 0.901 - IF, Q3 - JCR, 0.607 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-021-01571-3> |
| ADCA43 | MIAO, Fahe - FEČKAN, Michal - WANG, JinRong\*\*. Exact solution and instability for geophysical edge waves. In Communications on Pure and Applied Analysis, 2022, vol. 21, no. 7, p. 2447-2461. (2021: 1.273 - IF, Q2 - JCR, 0.792 - SJR, Q2 - SJR). ISSN 1534-0392. Dostupné na: <https://doi.org/10.3934/cpaa.2022067> |
| ADCA44 | NEDELA, Roman - ŠKOVIERA, Martin. Cyclic connectivity, edge-elimination, and the twisted Isaacs graphs. In Journal of Combinatorial Theory, Series B, 2022, vol. 155, p. 17-44. (2021: 1.491 - IF, Q1 - JCR, 1.798 - SJR, Q1 - SJR). ISSN 0095-8956. Dostupné na: <https://doi.org/10.1016/j.jctb.2022.01.007> |
| ADCA45 | OKŠA, Gabriel - YAMAMOTO, Yusaku - VAJTERŠIC, Marián. Convergence to Singular Triplets in the Two-Sided Block-Jacobi SVD Algorithm with Dynamic Ordering. In Siam Journal on Matrix Analysis and Applications, 2022, vol. 43, no. 3, p. 1238-1262. (2021: 1.908 - IF, Q2 - JCR, 1.320 - SJR, Q1 - SJR). ISSN 1095-7162. Dostupné na: [https://doi.org/10.1137/21M1411895](https://doi.org/10.1137/21m1411895) |
| ADCA46 | QIU, Yang-Cong\* - CHIU, Kuo-Shou\* - GRACE, Said R.\* - LIU, Qingmin\*\* - JADLOVSKÁ, Irena\*\*. Oscillation of Solutions to Third-Order Nonlinear Neutral Dynamic Equations on Time Scales. In Mathematics, 2022, vol. 10, no. 1, art. no. 86. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10010086> |
| ADCA47 | REPICKÝ, Miroslav. Rosenthal families, filters, and semifilters. In Archive for Mathematical Logic, 2022, vol. 61, p. 131-153. (2021: 0.492 - IF, Q4 - JCR, 0.566 - SJR, Q1 - SJR). ISSN 1432-0665. Dostupné na: <https://doi.org/10.1007/s00153-021-00779-2> |
| ADCA48 | SATHIYARAJ, T. - FEČKAN, Michal - WANG, JinRong\*\*. Synchronization of Fractional Stochastic Chaotic Systems via Mittag-Leffler Function. In Fractal and Fractional, 2022, vol. 6, art. no. 192. (2021: 3.577 - IF, Q1 - JCR, 0.644 - SJR, Q2 - SJR). (2022 - WOS, SCOPUS). ISSN 2504-3110. Dostupné na: <https://doi.org/10.3390/fractalfract6040192> |
| ADCA49 | WANG, JinRong - FEČKAN, Michal\*\* - GUAN, Yi. Constant Vorticity Atmospheric Ekman Flows in the f-Plane Approximation. In Discrete and Continuous Dynamical Systems - Series B, 2022, vol. 27, no. 11, p. 6619-6630. (2021: 1.497 - IF, Q2 - JCR, 0.732 - SJR, Q2 - SJR). ISSN 1531-3492. Dostupné na: <https://doi.org/10.3934/dcdsb.2022012> |

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| ADCA50 | WANG, JinRong - FEČKAN, Michal - GUAN, Yi. Constant Vorticity Ekman Flows in the β-Plane Approximation. In Journal of Mathematical Fluid Mechanics, 2021, vol. 23, art. no. 85. (2020: 1.298 - IF, Q3 - JCR, 1.004 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-6928. Dostupné na: <https://doi.org/10.1007/s00021-021-00612-z> |
| ADCA51 | XIAO, Guanli - FEČKAN, Michal - WANG, JinRong\*\*. On the averaging principle for stochastic differential equations involving Caputo fractional derivative. In Chaos, 2022, vol. 32, art. no. 101105. (2021: 3.741 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 1054-1500. Dostupné na: <https://doi.org/10.1063/5.0108050> |
| ADCA52 | YANG, Taoyu - FEČKAN, Michal - WANG, JinRong\*\*. Atmospheric Ekman Flows with Uniform Density in Ellipsoidal Coordinates: Explicit Solution and Dynamical Properties. In Journal of Geometric Mechanics, 2022, vol. 14, no. 3, p. 473-490. (2021: 0.737 - IF, Q4 - JCR, 0.260 - SJR, Q3 - SJR). ISSN 1941-4889. Dostupné na: <https://doi.org/10.3934/jgm.2022015> |
| ADCA53 | YOU, Zhongli\*\* - FEČKAN, Michal - WANG, JinRong\*\* - O´REGAN, Donal. Relative controllability of impulsive multi-delay differential systems. In Nonlinear Analysis : Modelling and Control, 2022, vol. 27, no. 1, p. 70-90. (2021: 2.217 - IF, Q1 - JCR, 0.602 - SJR, Q2 - SJR). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2022.27.24623> |
| ADCA54 | ZHANG, Wenlin - FEČKAN, Michal - WANG, JinRong\*\*. The Existence of Weak Solutions for the Vorticity Equation Related to the Stratosphere in a Rotating Spherical Coordinate System. In Axioms, 2022, vol. 11, art. no. 347. (2021: 1.824 - IF, Q2 - JCR, 0.441 - SJR, Q3 - SJR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms11070347> |

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

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| ADDA01 | PALENČÁR, J. - PALENČÁR, R. - CHYTIL, M. - WIMMER, Gejza, ml. - WIMMER, Gejza - WITKOVSKÝ, Viktor\*\*. ISO linear calibration and measurement uncertainty of the result obtained with the calibrated instrument. In Measurement Science Review, 2022, vol. 22, no. 6, p. 293-307. (2021: 1.697 - IF, Q3 - JCR, 0.376 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2022-0037> (APVV-21-0216 : Advanced mathematical and statistical methods for measurement and metrology. VEGA č. 2/0096/21 : Probability distributions and their applications in modelling and testing. VEGA č. 2/0023/22 : Causal analysis of measured signals and time series) |

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

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| ADEB01 | ANGELOVA, Nora - KACPRZYK, J. - MICHALÍKOVÁ, Alžbeta - ATANASSOV, Krassimir T. The Hauber´s law with intuitionistic fuzzy implications : ICIFS´2022. In Notes on Intuitionistic Fuzzy Sets, 2022, vol. 28, no. 3, p. 271-279. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2022.28.3.271-279> |
| ADEB02 | BENIA, Kheireddine - BEDDANI, Moustafa - FEČKAN, Michal - HEDIA, Benaouda\*\*. Existence result for a problem involving ψ-Riemann-Liouville fractional derivative on unbounded domain. In Differential Equations and Applications, 2022, vol. 14, no. 1, p. 83-97. ISSN 1847-120X. Dostupné na: <https://doi.org/10.7153/dea-2022-14-06> |
| ADEB03 | ČUNDERLÍKOVÁ, Katarína - BABICOVÁ, Dušana. Convergence in measure of intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2022, vol. 28, no. 3, p. 228-237. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2022.28.3.228-237> |
| ADEB04 | DILNA, Nataliya. D-stability of the model of the Stieltjes string related to the functional differential equations. In Examples and Counterexamples, 2022, vol. 2, art. no. 100092. ISSN 2666-657X. Dostupné na: <https://doi.org/10.1016/j.exco.2022.100092> |
| ADEB05 | DVUREČENSKIJ, Anatolij. A short note on categorical equivalences of proper weak pseudo EMV-algebras. In Journal of Algebraic Hyperstructures and Logical Algebras, 2022, vol. 3, no. 1, p. 35-44. ISSN 2676-6000. Dostupné na: [https://doi.org/10.52547/HATEF.JAHLA.3.1.4](https://doi.org/10.52547/hatef.jahla.3.1.4) |
| ADEB06 | KACPRZYK, J. - ČUNDERLÍKOVÁ, Katarína - ANGELOVA, Nora - ATANASSOV, Krassimir T. Modifications of the Goguen´s intuitionistic fuzzy implication. In Notes on Intuitionistic Fuzzy Sets, 2021, vol. 27, no. 4, p. 20-29. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2021.27.4.20-29> |
| ADEB07 | MICHALÍKOVÁ, Alžbeta. Some notes on intuitionistic fuzzy equivalence relations and their use on real data : ICIFS´2022. In Notes on Intuitionistic Fuzzy Sets, 2022, vol. 28, no. 3, p. 306-318. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2022.28.3.306-318> |
| ADEB08 | MICHALÍKOVÁ, Alžbeta - SZMIDT, Eulalia - VASSILEV, Peter. Modifications of Łukasiewicz´s intuitionistic fuzzy implication. In Notes on Intuitionistic Fuzzy Sets, 2021, vol. 27, no. 3, p. 32-39. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2021.27.3.32-39> |
| ADEB09 | OHKUBO, Yukio - STRAUCH, Oto. Distribution of Leading Digits of Imaginary Parts of Riemann Zeta Zeros. In Uniform Distribution Theory, 2022, vol. 17, no. 2, p. 161-164. ISSN 1336-913X. Dostupné na: [https://doi.org/10.2478/UDT-2022-0016](https://doi.org/10.2478/udt-2022-0016) |

**ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných**

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| ADFB01 | KOŠČ, Ivan - ODLER, Robert - ODLEROVÁ, Miriam - KOŠČOVÁ, Michaela. Vybrané špecifiká a vzdelávanie na Akadémii Policajného zboru počas pandémie. In Projustice, 2022, 28. 3., nestr. ISSN 1339-1038. Požaduje sa internet. Dostupné na internete: <https://www.projustice.sk/bezpecnostne-vedy/vybrane_specifika_vzdelavanie_na_apz_pocas_pandemie> |

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

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| ADMA01 | BAGHANI, Hamid\*\* - FEČKAN, Michal - FAROKHI-OSTAD, Javad - ALZABUT, Jehad. New Existence and Uniqueness Result for Fractional Bagley-Torvik Differential Equation. In Miskolc Mathematical Notes, 2022, vol. 23, no. 2, p. 537-549. (2021: 1.220 - IF, Q2 - JCR, 0.438 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: [https://doi.org/10.18514/MMN.2022.3702](https://doi.org/10.18514/mmn.2022.3702) |
| ADMA02 | DVUREČENSKIJ, Anatolij. States on weak pseudo EMV-algebras. I. States and states morphisms. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 4, p. 1-15. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.7082](https://doi.org/10.22111/ijfs.2022.7082) |
| ADMA03 | DVUREČENSKIJ, Anatolij. States on weak pseudo EMV-algebras. II. Representations of states. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 4, p. 17-26. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.7083](https://doi.org/10.22111/ijfs.2022.7083) |
| ADMA04 | GUAN, Yi - FEČKAN, Michal - WANG, JinRong\*\*. Constant vorticity atmospheric Ekman flows in the modified β−plane approximation. In Dynamics of Partial Differential Equations, 2022, vol. 19, no. 4, p. 311-321. (2021: 1.032 - IF, Q3 - JCR, 0.768 - SJR, Q2 - SJR). ISSN 1548-159X. Dostupné na: [https://doi.org/10.4310/DPDE.2022.v19.n4.a4](https://doi.org/10.4310/dpde.2022.v19.n4.a4) |
| ADMA05 | HASIL, P. - POSPÍŠIL, Michal - ŠIŠOLÁKOVÁ, J. - VESELÝ, M.\*\*. Non-oscillation criterion for Euler type half-linear difference equations with consequences in linear case. In Acta Mathematica Hungarica, 2022, vol. 166, no. 2, p. 624-649. (2021: 0.979 - IF, Q2 - JCR, 0.523 - SJR, Q2 - SJR). ISSN 0236-5294. Dostupné na: <https://doi.org/10.1007/s10474-022-01218-1> |
| ADMA06 | HOLÁ, Ľubica - MIRMOSTAFAEE, Alireza Kamel. Points of Openness of Some Mappings. In Filomat, 2021, vol. 35, no. 15, p. 5209-5214. (2020: 0.844 - IF, Q3 - JCR, 0.449 - SJR, Q2 - SJR). ISSN 0354-5180. Dostupné na: [https://doi.org/10.2298/FIL2115209H](https://doi.org/10.2298/fil2115209h) |
| ADMA07 | HOLÁ, Ľubica - HOLÝ, Dušan. Quasicontinuous Functions and the Topology of Uniform Convergence on Compacta. In Filomat, 2021, vol. 35, no. 3, p. 911-917. (2020: 0.844 - IF, Q3 - JCR, 0.449 - SJR, Q2 - SJR). ISSN 0354-5180. Dostupné na: [https://doi.org/10.2298/FIL2103911H](https://doi.org/10.2298/fil2103911h) |
| ADMA08 | HOLÁ, Ľubica - MIRMOSTAFAEE, Alireza Kamel\*\*. Joint continuity of separately continuous mappings. In Topology and its Applications, 2022, vol. 307, art. no. 107881. (2021: 0.583 - IF, Q4 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 0166-8641. Dostupné na: <https://doi.org/10.1016/j.topol.2021.107881> |
| ADMA09 | KARABÁŠ, Ján\*\* - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin. Girth, oddness, and colouring defect of snarks. In Discrete Mathematics, 2022, vol. 345, art. no. 113040. (2021: 0.961 - IF, Q3 - JCR, 0.888 - SJR, Q1 - SJR). ISSN 0012-365X. Dostupné na: <https://doi.org/10.1016/j.disc.2022.113040> |
| ADMA10 | KURA, Branislav - SZANTOVÁ, M. - LEBARON, Tyler W. - MOJTO, Viliam - BARANČÍK, Miroslav - SZEIFFOVÁ BAČOVÁ, Barbara - KALOČAYOVÁ, Barbora - SÝKORA, Matúš - OKRUHLICOVÁ, Ľudmila - TRIBULOVÁ, Narcisa - GVOZDJAKOVÁ, Anna - SUMBALOVÁ, Zuzana - KUCHARSKÁ, Jarmila - FAKTOROVÁ, Xénia - JAKABOVIČOVÁ, Martina - ĎURKOVIČOVÁ, Zuzana - MAČUTEK, Ján - KOŠČOVÁ, Michaela - SLEZÁK, Ján\*\*. Biological Effects of Hydrogen Water on Subjects witn NAFLD: A Randomized, Placebo-Controlled Trial. In Antioxidants, 2022, vol. 11, iss. 10, art. no. 1935. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: <https://doi.org/10.3390/antiox11101935> (APVV-0241-11 : Poškodenie zdravého tkaniva srdca a ciev pri ožiarení protónmi - patofyziológia a prevencia. APVV-15-0376 : Ochrana srdca v situáciách zvýšenej produkcie voľných kyslíkových radikálov: radiačné a reperfúzne poškodenie. APVV-19-0317 : Úloha miRNA pri vzniku a priebehu kardiovaskulárnych ochorení – nové prístupy ochrany srdca v situáciách zvýšenej produkcie reaktívnych foriem kyslíka. ITMS 26230120009 : Dobudovanie infraštruktúry pre moderný výskum civilizačných ochorení. VEGA č. 2/0063/18 : Ochrana srdca v situáciách nadmernej tvorby kyslíkových a nitrozylových radikálov: Molekulárny vodík ako nový potenciálny terapeutický nástroj?. VEGA č. 2/0148/22 : Vývoj diabetickej nefropatie a jej liečba nutraceutikom v experimentálnych podmienkach) |
| ADMA11 | LIU, Kui - FEČKAN, Michal - WANG, JinRong. A Class of (ω, T)-Periodic Solutions for Impulsive Evolution Equations of Sobolev Type. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 2743-2763. (2021: 0.776 - IF, Q3 - JCR). ISSN 1735-8515. Dostupné na: <https://doi.org/10.1007/s41980-021-00666-9> |

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| ADMA12 | MAČUTEK, Ján. Why Do Parameter Values in the Zipf-Mandelbrot Distribution Sometimes Explode? In Journal of Quantitative Linguistics, 2022, vol. 29, no. 4, p. 413-424. (2021: 0.761 - IF, Q3 - JCR, 0.324 - SJR, Q2 - SJR). ISSN 0929-6174. Dostupné na: <https://doi.org/10.1080/09296174.2021.1887613> |
| ADMA13 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Commutative, associative and non-decreasing functions continuous around diagonal. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 2, p. 31-48. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.6786](https://doi.org/10.22111/ijfs.2022.6786) |
| ADMA14 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea\*\* - MESIAR, Radko - SU, Y. Ordinal sum constructions for aggregation functions on the real unit interval. In Iranian Journal of Fuzzy Systems, 2022, vol. 19, no. 1, p. 83-96. (2021: 2.006 - IF, Q1 - JCR, 0.491 - SJR, Q2 - SJR). ISSN 1735-0654. Dostupné na: [https://doi.org/10.22111/IJFS.2022.6553](https://doi.org/10.22111/ijfs.2022.6553) |
| ADMA15 | QIU, Wanzheng - FEČKAN, Michal - O´REGAN, Donal - WANG, JinRong. Convergence Analysis for Iterative Learning Control of Conformable Impulsive Differential Equations. In Bulletin of the Iranian Mathematical Society, 2022, vol. 48, p. 193-212. (2021: 0.776 - IF, Q3 - JCR). ISSN 1735-8515. Dostupné na: <https://doi.org/10.1007/s41980-020-00510-6> |

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

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| ADMB01 | ČUNDERLÍKOVÁ, Katarína. Conditional Intuitionistic Fuzzy Mean Value in Connection with IF-Probability. In Lecture notes in networks and systems. - Cham : Springer, 2022, vol. 338, p. 51-59. (2021: 0.151 - SJR, Q4 - SJR). ISSN 2367-3370. Dostupné na: <https://doi.org/10.1007/978-3-030-95929-6_4> |
| ADMB02 | DILNA, Nataliya\*\* - GROMYAK, M - LESHCHUK, S. Unique Solvability of the Boundary-Value Problems for Nonlinear Fractional Functional Differential Equations. In Journal of Mathematical Sciences, 2022, vol. 265, no. 4, p. 577-588. (2021: 0.357 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-022-06072-8> |
| ADMB03 | FEČKAN, Michal - URAZBOEV, Gayrat - BALTAEVA, Iroda. Inverse Scattering and Loaded Modified Korteweg-de Vries Equation. In Journal of Siberian Federal University. Mathematics and Physics, 2022, vol. 15, no. 2, p. 176-185. (2021: 0.267 - SJR, Q3 - SJR). ISSN 1997-1397. Dostupné na: <https://doi.org/10.17516/1997-1397-2022-15-2-176-185> |
| ADMB04 | HOSPODÁR, Michal - OLEJÁR, Viktor\*\*. The Cut Operation in Subclasses of Convex Languages : Extended Abstract. In Implementation and Application of Automata : Conference proceedings CIAA 2022. - Cham, Switzerland : Springer International Publishing, 2022, 2022, vol. 13266, p. 152-164. (2021: 0.407 - SJR, Q2 - SJR). ISBN 978-3-031-07468-4. ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-07469-1_12> |
| ADMB05 | HOSPODÁR, Michal\*\* - MLYNÁRČIK, Peter - OLEJÁR, Viktor. Operations on Subregular Languages and Nondeterministic State Complexity. In Descriptional Complexity of Formal Systems : Conference proceedings DCFS 2022. - Cham, Switzerland : Springer International Publishing, 2022, 2022, vol. 13439, p. 112-126. (2021: 0.407 - SJR, Q2 - SJR). ISBN 978-3-031-13256-8. ISSN 0302-9743. Dostupné na: <https://doi.org/10.1007/978-3-031-13257-5_9> |
| ADMB06 | POSPÍŠIL, Michal. A note on fractional difference equations with periodic and S-asymptotically periodic right-hand sides. In Journal of Mathematical Sciences, 2022, vol. 265, no. 4, p. 669-681. (2021: 0.357 - SJR, Q3 - SJR). ISSN 1072-3374. Dostupné na: <https://doi.org/10.1007/s10958-022-06079-1> |
| ADMB07 | ROSAEV, A. - PLÁVALOVÁ, Eva. Some of the most interesting cases of close asteroid pairs perturbed by resonance. In Proceedings of the International Astronomical Union, 2022, vol. 15, no. 364, p. 226-231. (2021: 0.112 - SJR, Q4 - SJR). ISSN 1743-9213. Dostupné na: [https://doi.org/10.1017/S1743921321001320](https://doi.org/10.1017/s1743921321001320) (IAU Symposia Multi-scale (time and mass) Dynamics of Space Objects : IAUS 364) |
| ADMB08 | ŠUCH, Ondrej - FABRICIUS, René - TARÁBEK, Peter. Introducing students to out-of-distribution detection with deep neural networks. In ICETA 2022 Proceedings : Information and Communication Technologies in Learning. - New York, USA : IEEE, 2022, p. 621-627. ISBN 979-8-3503-2032-9. Dostupné na: [https://doi.org/10.1109/ICETA57911.2022.9974603](https://doi.org/10.1109/iceta57911.2022.9974603) |
| ADMB09 | VASILEVA, Mariia - KUZNETSOV, E. - ROSAEV, A. - PLÁVALOVÁ, Eva. Cascade disruption in Rampo family. In Proceedings of the International Astronomical Union, 2022, vol. 15, no. 364, p. 262-263. (2021: 0.112 - SJR, Q4 - SJR). ISSN 1743-9213. Dostupné na: [https://doi.org/10.1017/S1743921322000746](https://doi.org/10.1017/s1743921322000746) (IAU Symposia Multi-scale (time and mass) Dynamics of Space Objects : IAUS 364) |

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

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| ADNA01 | ABBAS, Mohamed I. - FEČKAN, Michal\*\*. Investigation of an Implicit Hadamard Fractional Differential Equation with Riemann-Stieltjes Integral Boundary Condition. In Mathematica Slovaca, 2022, vol. 72, no. 4, p. 925-934. (2021: 0.996 - IF, Q2 - JCR, 0.432 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2022-0063> |
| ADNA02 | LASSOUED, Dhaou - FEČKAN, Michal\*\*. Boundedness and Almost Periodicity of Solutions of Linear Differential Systems. In Mathematica Slovaca, 2022, vol. 72, no. 5, p. 1203-1214. (2021: 0.996 - IF, Q2 - JCR, 0.432 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2022-0082> |
| ADNA03 | MEDVEĎ, Milan - POSPÍŠIL, Michal\*\*. Stability and feedback stabilizability of delay periodic differential equations with pairwise permutable matrix functions. In Mathematica Slovaca, 2022, vol. 72, no. 2, p. 379-396. (2021: 0.996 - IF, Q2 - JCR, 0.432 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515-ms-2022-0026> |
| ADNA04 | ŠIMKOVÁ, Zuzana\*\* - KRZYZEWSKA, Iwona - KOŠČOVÁ, Michaela - DANDA, Roman. Evaluation of the connection of innovation activities within selected OECD countries in the area of Construction Minerals. In Acta Montanistica Slovaca, 2022, vol. 27, p. 190-200. (2021: 1.833 - IF, Q3 - JCR, 0.284 - SJR, Q3 - SJR). ISSN 1335-1788. Dostupné na: [https://doi.org/10.46544/AMS.v27il.14](https://doi.org/10.46544/ams.v27il.14) |

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

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| ADNB01 | GUI, X. - FEČKAN, Michal - WANG, JinRong. The application of PSO-BP combined model and GA-BP combined model in Chinese and V4´s economic growth model. In Journal of Applied Mathematics, Statistics and Informatics, 2022, vol. 18, no. 2, p. 33-55. ISSN 1339-0015. Dostupné na: <https://doi.org/10.2478/jamsi-2022-0011> |

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

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| AECA01 | ČECH, Radek - KUBÁT, Miroslav - MAČUTEK, Ján - KOŠČOVÁ, Michaela. Does an author leave a synactic footprint? In JADT 2022 : Proceedings of the 16th international conference on statistical analysis of textual data. Volume 1. - Naples, Italy : Vadistat Press, 2022, p. 221-228. ISBN 979-12-80153-30-2. |
| AECA02 | HALUŠKA, Ján - JASTRZEBSKA, Malgorzata. On a 4-Dimensional Subalgebra of the 12-Tone Equal Tempered Tuning. In Computer Algebra Systems in Teaching and Research : Volume XI.Mathematical Modeling and Differential Equations, 2022, vol. 11, p. 20-37. |
| AECA03 | CHUNOVKINA, A.G. - STEPANOV, A. V. - WIMMER, Gejza. On estimation of linear regression confidence bands: Analytical solution and Monte Carlo simulation. In Advanced Mathematical and Computational Tools in Metrology and Testing XII. - Singapur : World Scientific Publishing, 2022, p. 188-196. ISBN 978-981-124-237-3. Dostupné na: <https://doi.org/10.1142/9789811242380_0010> |
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**AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach**

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*7. [1.2] VERMA, Shivani - PATHAK, Rajesh Kumar. Discovery and optimization of lead molecules in drug designing. In Bioinformatics: Methods and Applications, 2021-01-01, pp. 253-267. Dostupné na: https://doi.org/10.1016/B978-0-323-89775-4.00004-3., Registrované v: SCOPUS*

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| --- | --- |
| AEE03 | JIRÁSKOVÁ, Galina - KRAUSOVÁ, M. Complexity in Prefix-Free Regular Languages. In 12th International W orkshop on Descriptional Complexity of Formal Systems (DCFS 2010), EPTCS 31. - http://arxiv.org/pdf/1008.1662.pdf, 2010, s. 197-204. |

Citácie:

*1. [1.1] DASSOW, Juergen. Operational complexity and right linear grammars. In ACTA INFORMATICA, 2021, vol. 58, no. 4, pp. 281-299. ISSN 0001-5903. Dostupné na:* [*https://doi.org/10.1007/s00236-020-00386-3.,*](https://doi.org/10.1007/s00236-020-00386-3.,) *Registrované v: WOS*

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| AEE04 | 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. [1.2] MITRA, Arnab. On the Exploration of the Natural Sequence of Primes With Cellular Automata Targeting Enhanced Data Security and Privacy. In International Journal of Cognitive Informatics and Natural Intelligence, 2021-01-01, 15, 4. ISSN 15573958. Dostupné na:* [*https://doi.org/10.4018/IJCINI.20211001.oa5.,*](https://doi.org/10.4018/ijcini.20211001.oa5.,) *Registrované v: SCOPUS*

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| AEE05 | MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - VALASKOVA, L. Generated universal fuzzy measures, Modeling Decisions for Artificial Intelligence. In LNAI 3885. - Berlin : Springer, 2006, s. 191-202. |

Citácie:

*1. [1.2] YANG, Zheming - JI, Wen. Meta measurement of intelligence with crowd network. In International Journal of Crowd Science, 2020-09-02, vol. 4, no. 3, p. 295-307. Dostupné na:* [*https://doi.org/10.1108/IJCS-03-2020-0008.,*](https://doi.org/10.1108/ijcs-03-2020-0008.,) *Registrované v: SCOPUS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | RIEČAN, Beloslav. On the probability and random variables on if events. In Proceedings of the 7th international flins conference. - Genova, 2006, 2006, p. 138-145. Dostupné na: <https://doi.org/10.1142/9789812774118_0023> |

Citácie:

*1. [1.1] CUNDERLIKOVA, Katarina. Conditional Intuitionistic Fuzzy Mean Value. In AXIOMS, 2021, ISSN 2075-1680, vol. 10, no. 2. Dostupné na: https://doi.org/10.3390/axioms10020097., Registrované v: WOS*

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| AFC02 | VOJTÁŠ, Peter. Generalized Galois-Tukey connections between explicit relations on classical objects of real analysis. In Set Theory of the Reals, Vol. 6. - Bar-Ilan University, 1993, s. 619-643. |

Citácie:

*1. [1.1] BAUMHAUER, Thomas - GOLDSTERN, Martin - SHELAH, Saharon. The higher Cichon diagram. In FUNDAMENTA MATHEMATICAE, 2021, vol. 252, no. 3, pp. 241-314. ISSN 0016-2736. Dostupné na:* [*https://doi.org/10.4064/fm666-4-2020.,*](https://doi.org/10.4064/fm666-4-2020.,) *Registrované v: WOS*

*2. [1.1] BRIAN, Will - LARSON, Paul B. Choosing between incompatible ideals. In EUROPEAN JOURNAL OF COMBINATORICS, 2021, vol. 96. ISSN 0195-6698. Dostupné na: https://doi.org/10.1016/j.ejc.2021.103349., Registrované v: WOS*

*3. [1.1] CANCINO, Jonathan - GUZMAN, Osvaldo - MILLER, Arnold W. IDEAL INDEPENDENT FAMILIES AND THE ULTRAFILTER NUMBER. In JOURNAL OF SYMBOLIC LOGIC, 2021, vol. 86, no. 1, pp. 128-136. ISSN 0022-4812. Dostupné na: https://doi.org/10.1017/jsl.2019.14., Registrované v: WOS*

*4. [1.1] DA SILVA, Samuel G. The Axiom of Choice and the Partition Principle from Dialectica Categories. In LOGIC JOURNAL OF THE IGPL, 2021, vol. 29, no. 5, pp. 783-797. ISSN 1367-0751. Dostupné na: https://doi.org/10.1093/jigpal/jzaa023., Registrované v: WOS*

*5. [1.1] GOLDSTERN, Martin - KELLNER, Jakob - MEJIA, Diego A. - SHELAH, Saharon. Controlling cardinal characteristics without adding reals. In JOURNAL OF MATHEMATICAL LOGIC, 2021, vol. 21, no. 03. ISSN 0219-0613. Dostupné na: https://doi.org/10.1142/S0219061321500185., Registrované v: WOS*

*6. [1.1] GOLDSTERN, Martin - KELLNER, Jakob - MEJIA, Diego A. - SHELAH, Saharon. PRESERVATION OF SPLITTING FAMILIES AND CARDINAL CHARACTERISTICS OF THE CONTINUUM. In ISRAEL JOURNAL OF MATHEMATICS, 2021, vol. 246, no. 1, pp. 73-129. ISSN 0021-2172. Dostupné na: https://doi.org/10.1007/s11856-021-2237-7., Registrované v: WOS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

|  |  |
| --- | --- |
| AFD01 | MIHÓK, Peter - SCHIERMEYER, I. Cycle lenghts and chromatic number of graphs. In Discrete Mathematics, 2004, vol. 286, iss. 1-2, s. 147-149. ISSN 0012-365X. |

Citácie:

*1. [1.1] AL-MNINY, Darine. Subdivisions of four blocks cycles in digraphs with large chromatic number. In DISCRETE APPLIED MATHEMATICS, 2021, vol. 305, p. 71-75. ISSN 0166-218X. Dostupné na: https://doi.org/10.1016/j.dam.2021.08.005., Registrované v: WOS*

*2. [1.1] FRIEDMAN, Limor - KRIVELEVICH, Michael. Cycle Lengths in Expanding Graphs. In COMBINATORICA, 2021, vol. 41, no. 1, pp. 53-74. ISSN 0209-9683. Dostupné na:* [*https://doi.org/10.1007/s00493-020-4434-0.,*](https://doi.org/10.1007/s00493-020-4434-0.,) *Registrované v: WOS*

*3. [1.1] GAO, Jun - HUO, Qingyi - MA, Jie. A STRENGTHENING ON ODD CYCLES IN GRAPHS OF GIVEN CHROMATIC NUMBER. In SIAM JOURNAL ON DISCRETE MATHEMATICS, 2021, vol. 35, no. 4, pp. 2317-2327. ISSN 0895-4801. Dostupné na: https://doi.org/10.1137/20M1387882., Registrované v: WOS*

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

|  |  |
| --- | --- |
| GHG01 | GRENDÁR, Marián - JUDGE, G.G. Revised empirical likelihood. In CUDARE Working Paper No. 1106. - Berkeley, CA : University of California, 2010. Dostupné na internete: <http://escholarship.org/uc/item/6gs579r0> |

Citácie:

*1. [1.1] LAZAR, N.A. A Review of Empirical Likelihood. In ANNUAL REVIEW OF STATISTICS AND ITS APPLICATION, VOL 8, 2021. ISSN 2326-8298, 2021, vol. 8, p. 329-344. Dostupné na:* [*https://doi.org/10.1146/annurev-statistics-040720-024710.,*](https://doi.org/10.1146/annurev-statistics-040720-024710.,) *Registrované v: WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

RNDr. Katarína Čunderlíková, PhD.

Názov semestr. predmetu: Analytická geometria 2

Počet hodín za semester: 20

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra matematiky

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 2

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: Univerzita Komenského v Bratislave, KAG FMFI UK

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, KAG FMFI UK

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 52

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, KAG FMFI UK

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 2

Počet hodín za semester: 52

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, KAG FMFI UK

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Teória kategórií 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, KAG FMFI UK

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Matematická štatistika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky   
doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Neparametrické štatistické metódy

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z matematickej štatistiky

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z teórie pravdepodobnosti

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Základy matematickej štatistiky

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Základy teórie pravdepodobnosti

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Fuzzy množiny 1

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Fuzzy množiny 1

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Matematika pre informatikov 1

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Matematika pre informatikov 2

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Soft Computing

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

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, Katedra manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 1

Počet hodín za semester: 8

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 24

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Teorie grafů

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Dynamické systémy

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 52

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 60

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FEI

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 120

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FIIT

RNDr. Katarína Čunderlíková, PhD.

Názov semestr. predmetu: Analytická geometria 2

Počet hodín za semester: 10

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra matematiky

RNDr. Katarína Čunderlíková, PhD.

Názov semestr. predmetu: Cvičenia z Analytickej geometrie 2

Počet hodín za semester: 10

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra matematiky

doc. Mgr. Ján Mačutek, PhD.

Názov semestr. predmetu: Vybrané kapitoly z teórie pravdepodobnosti

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Konštantína Filozofa v Nitre, Katedra matematiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Fuzzy množiny 1

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Fuzzy množiny 1

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Matematika pre informatikov 1

Počet hodín za semester: 6

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Matematika pre informatikov 2

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

RNDr. Alžbeta Michalíková, PhD.

Názov semestr. predmetu: Soft Computing

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra informatiky

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: Finančná Matematika

Počet hodín za semester: 48

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra kvantitatívnych metód

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Matematika 1

Počet hodín za semester: 24

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra kvantitatívnych metód

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerické metódy lineárnej algebry

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Stavebná fakulta

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerické metódy lineárnej algebry

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Stavebná fakulta

Mgr. Viktor Olejár

Názov semestr. predmetu: Klasické a kvantové výpočty

Počet hodín za semester: 26

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

Mgr. Viktor Olejár

Názov semestr. predmetu: Programovanie, algoritmy, zložitosť A

Počet hodín za semester: 52

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (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: Matematika (3)

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

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

Semináre:

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Proseminár z TEX-u

Počet hodín za semester: 26

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

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha E***

**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 | 3 |
| Česko |  |  |  |  | Anna Jenčová | 2 |
|  |  |  |  |  | Michaela Koščová | 3 |
|  |  |  |  |  | Ján Mačutek | 13 |
|  |  |  |  |  | Karol Nemoga | 2 |
| Kanada |  |  |  |  | Stefan Dobrev | 15 |
| Rakúsko |  |  |  |  | Miroslav Haviar | 7 |
|  |  |  |  |  | Ján Mačutek | 3 |
| **Počet vyslaní spolu** |  |  |  |  | **8** | **48** |

**(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** |
| Irán | Dr. Omid Zahiri | 153 |  |  |  |  |
| Poľsko |  |  |  |  | Małgorzata Jastrzębska, PhD | 92 |
| Taliansko | Mgr. Gandolfo Vergottini | 61 |  |  |  |  |
| Ukrajina |  |  |  |  | Mgr. Svitlana Leshchuk, PhD. | 5 |
| **Počet prijatí spolu** | **2** | **214** |  |  | **2** | **97** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Bulharsko | ICIFS'2022 | Katarína Čunderlíková | 5 |
| Česko | ConfAuth2022 | Ján Mačutek | 3 |
|  | Conference on Differential Equations and Their App | Irena Jadlovská | 5 |
|  | DSSL 5 | Ján Mačutek | 3 |
|  | Equadiff 15 | Natália Dilna | 5 |
|  | ROBUST 2022 | Friday Ikechukwu Agu | 6 |
|  |  | Ján Mačutek | 4 |
|  |  | Gejza Wimmer | 6 |
|  | Sem. ČNK | Ján Mačutek | 2 |
|  | SWSL 2022 | Michaela Koščová | 5 |
|  |  | Ján Mačutek | 5 |
| Francúzsko | CIAA 2022 | Michal Hospodár | 6 |
|  |  | Galina Jirásková | 6 |
|  |  | Peter Mlynárčik | 6 |
|  |  | Viktor Olejár | 6 |
|  | MATHMET 2022 | Gejza Wimmer | 5 |
| Grécko | ICNAAM 2022 | Irena Jadlovská | 8 |
| Chorvátsko (online) | ZC-SPS 2022 | Karol Nemoga | 1 |
| Japonsko (online) | 3rdK-WQICF 2022 | Anna Jenčová | 5 |
| Maďarsko | DCFS'22 | Michal Hospodár | 3 |
|  |  | Galina Jirásková | 3 |
|  |  | Peter Mlynárčik | 3 |
|  |  | Viktor Olejár | 3 |
|  | MCU 2022 | Michal Hospodár | 3 |
|  |  | Galina Jirásková | 3 |
|  |  | Peter Mlynárčik | 3 |
|  |  | Viktor Olejár | 3 |
| Malta | SPS-Malta 2022 | Karol Nemoga | 5 |
| Nemecko (online) | Sem. NSQS | Anna Jenčová | 1 |
| Nigéria | NSANG 2022 | Friday Ikechukwu Agu | 9 |
| Nórsko | MCSP 2022 | Karol Nemoga | 3 |
| Poľsko | PPAM 2022 | Gabriel Okša | 5 |
| Poľsko (online) | IWIFSGN'2022 | Katarína Čunderlíková | 1 |
| Portugalsko | ICMA2SC'22 | Natália Dilna | 6 |
| Rakúsko | FG1 Seminar | Miroslav Haviar | 1 |
| Srbsko | ATA 2022 | Ľubica Holá | 8 |
|  |  | Branislav Novotný | 8 |
| Španielsko | SCQE 2022 | Karol Nemoga | 5 |
| Taliansko | IQSA 2022 | Anna Jenčová | 8 |
|  |  | Martin Papčo | 8 |
|  | JADT 2022 | Ján Mačutek | 5 |
|  | MAC2022 | Stefan Dobrev | 5 |
| Ukrajina (online) | UM-2022 | Gejza Wimmer | 2 |
| USA | DLT-2022 | Galina Jirásková | 8 |
| **Spolu** | **30** | **44** | **204** |

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

3rdK-WQICF 2022 - Third Kyoto Workshop on Quantum Information, Computation, and Foundations

ATA 2022 - Analysis, Topology and Applications 2022

CIAA 2022 - The 26th International Conference on Implementation and Application of Automata

ConfAuth2022 - Conference on Authorial Style, It's Analysis, and Limits of Automatic Recognition

Conference on Differential Equations and Their App - Equadiff 15

DCFS'22 - 24th International Conference on Descriptional Complexity of Formal systems

DLT-2022 - 26th International Conference Developments in Language Theory

DSSL 5 - Diachronic Slavonic Syntax 5

Equadiff 15 - Conference on Differential Equations and Their Applications

FG1 Seminar - FG1 Seminar

ICIFS'2022 - 25th Jubilee Edition of the International Conference on Intuitionistic Fuzzy Sets

ICMA2SC'22 - International Conference on Mathematical Analysis and Applications in Science and Engineering

ICNAAM 2022 - 20th International Conference of Numerical Analysis and Applied

IQSA 2022 - Fifteenth Biennial Quantum Structures 2022 (IQSA conference)

IWIFSGN'2022 - Twentieth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets

JADT 2022 - 16th International Conference on Statistical Analysis of Textual Data

MAC2022 - Research Meeting and School on Distributed Computing by Mobile Robots

MATHMET 2022 - MATHMET 2022

MCSP 2022 - Munin Conference on Scholarly Publishing

MCU 2022 - 9th Conference on Machines, Computations and Universality

NSANG 2022 - The 45th Annual Conference of the Nigerian Statistical Association

PPAM 2022 - 14th International Conference on Parallel Processing and Applied Mathematics

ROBUST 2022 - ROBUST 2022

SCQE 2022 - Secure Communication in the Quantum Era (project meeting)

Sem. ČNK - Seminár Českého národného korpusu

Sem. NSQS - Nonlocal Seminar on Quantum Steering

SPS-Malta 2022 - Science for Peace and Security (SPS) Programme meeting on G5448 “Secure Communication in the Quantum Era”

SWSL 2022 - Summer Workshop for Statistics in Linguistics 2022

UM-2022 - Uncertainty of Measurement: Scientific, Applied, Regulatory and Methodical Aspects

ZC-SPS 2022 - Zagreb Conference on NATO SPS Scientific Programme ***Príloha F***

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Mýty a reálne čísla o obnoviteľných zdrojoch energie | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky 2022) | 8.11.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Egyptská matematika v staroveku | Gymnázium Futurum, Košice | 23.11.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | Liptovský Ján, detský tábor ECAV | 18.7.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Krása matematiky v dláždení | ZŠ Hybe | 8.11.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Krása matematiky v dláždení | ZŠ J. D. Matejovie, Liptovský Hrádok | 7.11.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Krása matematiky v dláždení | ZŠ J. D. Matejovie, Liptovský Hrádok | 11.11.2022 |
| RNDr. Emília Halušková, CSc. |  | PB | Krása matematiky v dláždení | ZŠ Liptovský Ján | 9.11.2022 |
| RNDr. Emília Halušková, CSc. |  | IN | Krása matematiky v dláždení (zmienka o podujatí) | https://matejka.edupage.org/a/besedy-a-prednasky-1?eqa=YmlkPWJsb2cyJndpZD1ibG9nMl9CbG9nXzEmYWlkX2Jsb2cyX0Jsb2dfMT01MA%3D%3D | 9.11.2022 |
| RNDr. Emília Halušková, CSc. |  | IN | Netradičná vyučovacia hodina matematiky (zmienka o podujatí) | https://zshybe.edupage.org/news/#1366 | 8.11.2022 |
| Ing. Igor Mračka, PhD. |  | PB | Simulácia začiatku epidémie COVID 19 na Slovensku | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky 2022) | 8.11.2022 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Ochrana informácií v dnešnom svete | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky 2022) | 8.11.2022 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární | Deň otvorených dverí na MÚ SAV, v. v. i. (Týždeň vedy a techniky 2022) | 8.11.2022 |
| Mgr. Eva Plávalová, PhD. |  | PU | článok/kniha | Astronomická ročenka 2022 | 2022 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Logika ako pokus zachytiť myslenie (úvod úvodu) . | LŠ Pytagoras/ Hronec (okres Brezno) | 1 |

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