**Matematický ústav SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2018**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2019

**Obsah osnovy Správy o činnosti organizácie SAV za rok 2018**

[1. Základné údaje o organizácii](#chapter1)

[2. Vedecká činnosť](#chapter2)

[3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku](#chapter3)

[4. Medzinárodná vedecká spolupráca](#chapter4)

[5. Vedná politika](#chapter5)

[6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky](#chapter6)

[7. Spolupráca s aplikačnou a hospodárskou sférou](#chapter7)

[8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie](#chapter8)

[9. Vedecko-organizačné a popularizačné aktivity](#chapter9)

[10. Činnosť knižnično-informačného pracoviska](#chapter10)

[11. Aktivity v orgánoch SAV](#chapter11)

[12. Hospodárenie organizácie](#chapter12)

[13. Nadácie a fondy pri organizácii SAV](#chapter13)

[14. Iné významné činnosti organizácie SAV](#chapter14)

[15. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV](#chapter15)

[16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám](#chapter16)

[17. Problémy a podnety pre činnosť SAV](#chapter17)

***PRÍLOHY***

[*A Zoznam zamestnancov a doktorandov organizácie k 31.12.2018*](#annexe1)

[*B Projekty riešené v organizácii*](#annexe2)

[*C Publikačná činnosť organizácie*](#annexe3)

[*D Údaje o pedagogickej činnosti organizácie*](#annexe4)

[*E Medzinárodná mobilita organizácie*](#annexe5)

[*F Vedecko-popularizačná činnosť pracovníkov organizácie SAV*](#annexe6)

**1. Základné údaje o organizácii**

**1.1. Kontaktné údaje**   
   
**Názov:** [Matematický ústav SAV](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=org-user&user_no=2369)   
**Zástupca riaditeľa:** [prof. RNDr. Anatolij Dvurečenskij, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2372)   
**Vedecký tajomník:** [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521)   
**Predseda vedeckej rady:** [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380)   
**Člen snemu SAV:** [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=)   
**Adresa:** Štefánikova 49, 814 73 Bratislava   
   
http://www.mat.savba.sk   
   
**Tel.:** 02/ 5751 0414   
**Fax:** 02/ 5249 7316   
**E-mail:** mathinst@mat.savba.sk   
**Názvy a adresy detašovaných pracovísk:**

 [**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 detašovaných pracovísk:**

 [**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=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)   
[doc. RNDr. Roman Frič, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5683)

 [**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. Beloslav Riečan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6722) (do 13. 8. 2018)  
[prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6722) (od 14. 8. 2018)

**Typ organizácie:** Rozpočtová od roku 1959

**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Štruktúra zamestnancov** | **K** | **K** | | **K  do 35  rokov** | | **F** | **P** | **T** |
| **M** | **Ž** | **M** | **Ž** |
| **Celkový počet zamestnancov** | 74 | 44 | 30 | 4 | 1 | 66 | 42.54 | 28.67 |
| **Vedeckí pracovníci** | 53 | 41 | 12 | 4 | 0 | 46 | 28.03 | 27.57 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 6 | 2 | 4 | 0 | 0 | 5 | 3.93 | 1.1 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Odborní pracovníci ÚS** | 11 | 1 | 10 | 0 | 0 | 11 | 9.19 | 0 |
| **Ostatní pracovníci** | 4 | 0 | 4 | 0 | 1 | 4 | 1.39 | 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 31.12.2018 (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 31.12.2018 (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*

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2018)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 10 | 32 | 7 | 15 | 10 | 12 | 19 |
| **Ženy** | 3 | 10 | 0 | 3 | 2 | 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** |
| **Muži** | 1 | 3 | 3 | 3 | 4 | 1 | 8 | 7 | 6 |
| **Ženy** | 0 | 0 | 4 | 0 | 2 | 2 | 1 | 3 | 1 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | | **Vedeckí pracovníci** | | **Riešitelia projektov** | |
|  | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 53.8 | 55.3 | 53.8 | 55.0 | 54.3 | 55.9 |
| **Ženy** | 52.2 | 53.1 | 49.4 | 50.8 | 52.3 | 53.8 |
| **Spolu** | 53.1 | 54.3 | 52.8 | 54.0 | 53.8 | 55.3 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov   
B - Prepočet so zohľadnením úväzkov zamestnancov*   
   
**1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej štruktúre a pod.)**

Na základe vnútorne akademického hodnotenia ústavov za r. 2017 Matematický ústav SAV získal v r. 2018 najlepšie hodnotenie v SAV práve vďaka výbornej publikačnej aktivite MÚ SAV.

Na ústave prebehla v septembri 2018 úspešná obhajoba doktorskej dizertačnej práce Mgr. Anny Jenčovej, PhD. vo vednom odbore pravdepodobnosť a matematická štatistika, a koncom roka jej Vedecká rada SAV udelila najvyššiu vedeckú hodnosť doktor matematických vied, DrSc.

Mgr. Martin Plávala získal titul RNDr. na Fakulte matematiky, fyziky a informatiky UK.

V rámci Týždňa vedy sme mali 10. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach a Liptovskom Mikuláši.

Na jeseň 2018 sa vrátila z rodičovskej dovolenky Mgr. Natalia Dilna, PhD.

V r. 2018 sme pokračovali 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.

Časopis Mathematica Slovaca má impaktový faktor IF(2016)=0,314, päťročný impakt faktor 0,462 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,340 (Scimago Journal Ranking) a je v 3. kvartile. Počet zaslaných článkov v r. 2018 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,360 (Scimago Journal Ranking) a je v 3. kvartile.

Dňa 27. septembra 2018 udeľoval Literárny fond ceny za vedeckú a odbornú literatúru za rok 2017. Naši pracovníci prof. RNDr. Michal Fečkan, DrSc. a RNDr. Michal Pospíšil, PhD. získali v kategórii prírodné a technické vedy *Prémiu za vedeckú a odbornú literatúru za rok 2017* za dielo: M. Fečkan, M. Pospíšil, J. R. Wang: *Fractional-Order Equations and Inclusions*, Walter de Gruyter, 2017.

V r. 2017 bol schválený zákon o verejných výskumných inštitúciách, na základe ktorého prejdú všetky ústavy SAV z terajšej formy hospodárenia na nový typ v.v.i. od 1.7.2018. Bohužiaľ, po „horúcom lete“ nakoniec žiaden ústav SAV nebol transformovaný na v.v.i. a v druhej polovici septembra 2018 všetky ústavy SAV sa vrátili do pôvodnej formy hospodárenia, v ktorej boli pred 1.7.2018. V súčasnej dobe sa čaká, s čím prídu zákonodarcovia ohľadom SAV.

V auguste 2018 nás nečakane opustil prof. RNDr. Beloslav Riečan, DrSc., Dr. h.c. mult., ktorý viedol pobočku MÚ SAV v Banskej Bystrici. V súčasnosti je jej vedením poverený prof. RNDr. Roman Nedela, DrSc.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
abuľka 2a Domáce projekty riešené v roku 2018

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet** | | **Čerpané financie (€)** | | | | | |
| **A** | **B** | **A** | | | | **B** | |
| **Zo zdrojov SAV** | | **Z iných zdrojov** | | **Zo zdrojov SAV** | **Z iných zdrojov** |
| **Spolu** | **Pre  organi-  záciu** | **Spolu** | **Pre  organi-  záciu** |
| **1. Projekty VEGA** | 12 | 4 | 67288 | 67288 | - | - | 8809 | - |
| **2. Projekty APVV** | 2 | 3 | - | - | 52682 | 43778 | - | 27617 |
| **3. Projekty OP ŠF** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty SASPRO** | 0 | 0 | - | - | - | - | - | - |
| **5. Projekty centier excelentnosti SAV** | 0 | 0 | - | - | - | - | - | - |
| **6. Iné projekty (FM EHP, ŠPVV,   Vedecko-technické projekty, ESF,   na objednávku rezortov a pod.)** | 1 | 1 | - | - | - | - | - | 5100 |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2018

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2018** | - | 2 | 3 |
| **2. Projekty výziev OP ŠF**  **podané r. 2018** | Bratislava |  |  |
| Regióny | 3\* |  |

\*

 Operačný program: 313000 - Operačný program Výskum a inovácie

Žiadateľ: Matematický ústav SAV

Názov projektu: *Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov*

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-10

Kód žiadosti: NFP313010T634

Požadovaná výška NFP: 1 239 037,76 €

Podané: 23.11.2018



Operačný program:313000 - Operačný program Výskum a inovácie

Žiadateľ: Matematický ústav SAV

Názov projektu: *Matematická podpora kvantových technológií*

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-09

Kód žiadosti: NFP313010T683

Požadovaná výška NFP: 1 087 916,53 €

Podané: 23. 11. 2018



Stimuly:

Žiadateľ: MÚ SAV a Alistiq s.r.o., Sídlo: Furdekova 5/5, 85104, Bratislava - mestská časť Petržalka, Slovensko

Názov žiadosti: *Dátami riadená platforma pre personalizovaný skríning pacientov a predikciu rizika chronických ochorení*

Požadovaná celková čiastka: 1 329 136,03 EUR

Požadovaná čiastka pre MÚ SAV: 272 504,00 EUR

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2018**

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 7. RP EÚ a   Horizont 2020** | 0 | 0 | - | - | - | - | - | - |
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 1 | - | - | - | - | - | - |
| **3. Projekty COST** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty EUREKA, NATO,   UNESCO, CERN, IAEA, IVF,   ERDF a iné** | 0 | 0 | - | - | - | - | - | - |
| **5. Projekty v rámci medzivládnych   dohôd** | 0 | 0 | - | - | - | - | - | - |
| **6. Bilaterálne projekty MAD** | 0 | 0 | - | - | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | - | - | - | - | - | - |
| **8. Podpora MVTS z národných   zdrojov (SAV, APVV a iné)** | 0 | 1 | - | - | - | - | - | 10000 |
| **9. Iné projekty** | 0 | 0 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu* **2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2018**

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

|  |  |  |
| --- | --- | --- |
|  | **A** | **B** |
| **Počet podaných projektov Horizont 2020** |  |  |

*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 štrukturálnych fondov EÚ v ďalších výzvach**

Matematický ústav SAV koncom roka 2018 podal dva projekty do výziev MŠ VVŠ SR, štrukturálnych fondov, niektoré boli modifikáciou úspešného, ale nerealizovaného projektu z roku 2017 v širšej spolupráci s lekárskymi pracoviskami SAV, Ústavom merania SAV, Lekárskou fakultou UK a ďalšími.

V decembri 2018 predložil MÚ SAV Výskumnej agentúre podklady na posúdenie zahraničnými expertmi k výskumnej stratégii projektu DSV s názvom „Inteligentné technológie na manažment zdravotného stavu rizikovej skupiny tehotných žien“. Projekt sa podáva 15. 2. 2019 v rámci výzvy s číslom OPVaI-VA/DP/2018/1.2.1-08 - „Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu dlhodobého strategického výskumu – Zdravie obyvateľstva a zdravotnícke technológie“. Žiadateľom je Matematický ústav SAV, partneri projektu sú BMC SAV, ÚEM SAV, ÚM SAV, LF UK, FChPT STU, PU Nitra, CBRB SAV a ďalšími.

**2.3. Najvýznamnejšie výsledky vedeckej práce**

**2.3.1. Základný výskum**

**Bežiace vlny v PT-symetrických nelineárnych metamateriáloch**

Uvažovaný je jednorozmerný model pre nelineárne magnetické metamateriály so symetriami. Metamateriály budú mať široké uplatnenie pre výrobu lacných, vysoko výkonných magnetov, alebo v nových druhoch elektromotorov v elektromobiloch. Matematicky ide o dynamické systémy na mriežkach, teda o nekonečné systémy spriahnutých elektronických obvodov. Existencia bežiacich vĺn je ukázaná pomocou analýzy Melnikovovou funkciou. Priamy numerický výpočet vykazuje dobrú zhodu s teoretickými výsledkami.

**Autori:** M. Agaoglou (Aristotle University of Thessaloniki, Greece), **M. Fečkan** (MÚ SAV)**, M. Pospíšil** (MÚ SAV), V.M. Rothos (Aristotle University of Thessaloniki, Greece), H. Susanto (Univ. of Essex, UK)

**Projekt:** VEGA 2/0153/16

**Referencia:** M. Agaoglou, **M. Fečkan, M. Pospíšil**, V.M. Rothos, H. Susanto: Gain–loss-driven travelling waves in PT-symmetric nonlinear metamaterials, Wave Motion 76 (2018) 9–18.

**Gain–loss-driven travelling waves in PT-symmetric nonlinear metamaterials**

A one-dimensional model of nonlinear magnetic metamaterials with parity-time-symmetric potentials is considered. Metamaterials will be widely used to produce cheap, high performance magnets, or new types of electromotors in electric cars. Mathematically, these are dynamic systems on grids/lattices, i.e. infinite systems of coupled electronic circuits. The existence of localized travelling waves is obtained by performing a Melnikov function analysis. Direct numerical computations are performed showing good agreement with the theoretical analysis.

**Authors:** M. Agaoglou (Aristotle University of Thessaloniki, Greece), **M. Fečkan** (MÚ SAV)**, M. Pospíšil** (MÚ SAV), V.M. Rothos (Aristotle University of Thessaloniki, Greece), H. Susanto (Univ. of Essex, UK)

**Project:** VEGA 2/0153/16

**Reference:** M. Agaoglou, M. Fečkan, M. Pospíšil, V.M. Rothos, H. Susanto: Gain–loss-driven travelling waves in PT-symmetric nonlinear metamaterials, Wave Motion 76 (2018) 9–18.

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**Vlastnosť SEKP pre monounárne algebry**

Nech *A* je algebra. Endomorfizmus *f* algebry *A* je silný, ak *f* je zlučiteľný so všetkými kongruenciami na algebre *A*. Ak každá kongruencia na *A* je jadrom nejakého silného endomorfizmu, potom algebra *A* má vlastnosť SEKP. Výsledky o tejto vlastnosti sú publikované od roku 2008 pre polozväzy, distributívne zväzy, p-algebry, Ockhamove algebry a Stoneove algebry autormi T.S. Blyth, G. Fang, J. Fang, J. Guričan, M. Ploščica, Z.J. Sun, H.J. Silva and L.B.Wang. Pre niektoré typy algebier, napr. pre konečné distributívne zväzy, sú popísané všetky algebry s vlastnosťou SEKP. My sme skúmali monounárne algebry s touto vlastnosťou a podarilo sa nám všetky popísať. Sú to monounárne algebry, ktoré majú nanajvýš 2 komponenty a ich operácia je prostá na množine *B*, ktorú dostaneme, keď z *A* vynecháme jeden špeciálny bod.

**Autor:** E. Halušková

**Projekt:** VEGA 2/0044/16

**Referencia:** E. Halušková: Strong Endomorphisms Kernel Property for Monounary Algebras, Mathematica Bohemica 143-2 (2018), 161-171.

**Strong Endomorphism Kernel Property for monounary algebras**

Let *A* be an algebra. An endomorphism *f* of *A* is strong if *f* is compatible with all congruences on the algebra *A*. If every congruence on *A* is a kernel of some strong endomorphism of *A*, then an algebra *A* has a strong endomorphism kernel property (SEKP). Results about this property are published since 2008 for semilattices, distributive lattices, p-algebras, Ockham algebras and Stone algebras by authors T.S. Blyth, G. Fang, J. Fang, J. Guričan, M. Ploščica, Z.J. Sun, H.J. Silva and L.B.Wang. All algebras with SEKP are described for some types of algebras, e.g. for finite distributive lattices. We were interested in monounary algebras with SEKP and we described all ones with this property. They are monounary algebras that consist of at most two components and their operation is injective on the set *B* which we obtain if we omit one special point from *A*.

**Author:** E. Halušková

**Projekt:** VEGA 2/0044/16

**Reference:** E. Halušková: Strong Endomorphisms Kernel Property for Monounary Algebras, Mathematica Bohemica 143-2 (2018), 161-171.

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**Evakuácia dvoch robotov z viacerých neznámych brán na kruhu**

Na jednotkovej kružnici sa nachádza k brán. Dva autonómne mobilné roboty sú umiestnené na túto kružnicu. Každý robot ma maximálnu rýchlosť 1; roboty komunikujú bezdrôtovo. Roboty majú k dispozícii mapu domény, vrátane brán, avšak nevedia, kde sa v rámci domény nachádzajú. Jediné čo vedia, je vzdialenosť medzi nimi. Cieľom evakuačného problému je nájsť algoritmus, ktorý minimalizuje najhorší možný čas potrebný na to aby oba roboty opustili doménu bránami.

Uvažujeme dve varianty tohto problému, v závislosti od toho či roboty majú kontrolu nad ich počiatočnou vzájomnou vzdialenosťou. Ak je ich počiatočná vzdialenosť časťou vstupu (čiže nemajú kontrolu). Ukázali sme, že existujú jednoduché algoritmy na dosiahnutie optimálneho najhoršieho možného času evakuácie pre prípady, keď: všetky roboty začínajú na rovnakom mieste, pre ľubovoľné rozmiestnenie výstupných brán; všetky brány sú rovnomerne rozmiestnené a roboti majú ľubovoľné štartovacie pozície.

K ďalším výsledkom patria dolné a horné odhady pre prípad ľubovoľného rozmiestnenia brán a ľubovoľných štartovacích pozícií. Pre model, kde roboty môžu vybrať vzájomnú vzdialenosť pri štarte (so znalosťou, ale bez kontroly, vzájomných pozícií brán), sme navrhli prirodzenú triedu algoritmov parametrizovaných najväčšou vzdialenosťou medzi susednými bránami.

**Autori:** J. Czyzowicz (Uni Quebec, Canada), **S. Dobrev** (MÚ SAV), K. Georgiou (Uni Ontario, Canada), E. Krankis, F. MacQuarrie (Carleton University, Ontario)

**Projekt:** NSERC Discovery grant

**Referencia:** CZYZOWICZ, J. - DOBREV, S. - GEORGIOU, K. - KRANAKIS, E. - MACQUARRIE, F. Evacuating two robots from multiple unknown exits in a circle. Theoretical Computer Science, 2018, **709**, p. 20-30.

**Evacuating two robots from multiple unknown exits in a circle**

Distributed on a unit circle are k exits. Two autonomous mobile robots are placed on the circle. Each robot has a maximum speed of 1 and the robots can communicate wirelessly. The robots have a map of the domain, including exits but do not have knowledge of their own initial locations on the domain, rather they only know their relative distance. The goal of the evacuation problem is to give an algorithm for the robots which minimizes the time required for both robots to reach an exit, in the worst case.

We consider two variations of the problem depending on whether the two robots have control over their initial distance. When the initial distance of the robots is part of the input (i.e. no control), we show that simple algorithms exist which achieve optimal worst case evacuation times for the cases where: the robots begin colocated with an arbitrary distribution of the exits; and when the exits are either colocated or evenly spaced, with arbitrary starting positions of the robots.

We also give upper and lower bounds on the problem with arbitrary exit distribution and starting positions of the robots. For the problem where robots can choose their initial distance (with knowledge of, but not control over the distribution of exits), we propose a natural family of algorithms parameterized by the maximum distance between any two exits.

**Authors:** J. Czyzowicz (Uni Quebec, Canada), **S. Dobrev** (MÚ SAV), K. Georgiou (Uni Ontario, Canada), E. Krankis, F. MacQuarrie (Carleton University, Ontario)

**Projects:** NSERC Discovery grant

**Reference:** CZYZOWICZ, J. - DOBREV, S. - GEORGIOU, K. - KRANAKIS, E. - MACQUARRIE, F. Evacuating two robots from multiple unknown exits in a circle. In Theoretical Computer Science, 2018, vol. 709, p. 20-30.

**2.3.2. Aplikačný typ**

**Passívne memristorove synaptické okruhy**

V časopise AEU International Journal of Electronics and Communications sme publikovali nový obvod na simuláciu synapsií v umelých neurónových sieťach. Výhodou tohto obvodu je, že pozostáva len z memristorových článkov, čo umožňuje veľmi vysokú integráciu pomocou nanotechnológií. Obvod preukazuje viaceré spôsoby adaptácie a to STDP ako aj fázovo založenú koincidenčnú adaptáciu. Kombinácia týchto spôsob adaptácie je jedným možným riešením problému katastrofického zabúdania v neurónových sieťach.

**Autori:** **O. Šuch** (MÚ SAV), M. Klimo (Žilinská univ.), N. T. Kemp (Univ. of Hull, UK), O. Škvarek (Žilinská univ.)

**Projekty:** APVV-14- 0560, VEGA 2/0144/18 and COST Action IC1401 MemoCiS

**Referencia:** Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259.

**Passive memristor synaptic circuits**

We discovered a new circuit for simulation of synapses in artificial neural networks. The key advantage of the circuit is that it consists solely of memristor elements which allows for very high integration density using nanotechnologies. The circuit provides for multiple synaptic adaptation mechanisms, namely STDP as well as phase-based coincidence adaptation. The combination of these mechanisms is one possible solution to the problem of catastrophic forgetting in neural networks.

**Authors:** **O. Šuch** (MÚ SAV), M. Klimo (Žilinská univ.), N. T. Kemp (Univ. of Hull, UK), O. Škvarek (Žilinská univ.)

**Projects:** APVV-14- 0560, VEGA 2/0144/18 and COST Action IC1401 MemoCiS

**References:** Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259.

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**Zovšeobecnená polynomiálna komparatívna kalibrácia: Odhady parametrov a aplikácie**

Boli popísané metódy a algoritmy založené na aplikácii klasického regresného prístupu na model s chybami v premenných a aplikované na model komparatívnej kalibrácie (t.j. kalibrácie, keď obidve premenné (aj etalón) sú zaťažené chybami). Uvažuje sa pritom zovšeobecnená polynomická kalibračná funkcia. Tento prístup berie do úvahy čisto metrologické zretele. Vstupné veličiny sú úplne charakterizované apriórnymi znalosťami ich distribúcií, ktoré sú odvodené zo zodpovedajúcich bilancií neistôt priamych meraní v kalibračnom experimente ako aj expertných znalostí metrológa. Tento postup umožňuje kombinovať metódy A a B vyhodnocovania neistôt ako aj zahrnúť korelácie medzi meraniami. Na reálnom príklade je celý postup ilustrovaný (demonštrovaný). Prílohy obsahujú všetky potrebné teoretické výsledky.

**Autori:** V. Witkovský (ÚM SAV), **G. Wimmer** (MÚ SAV)

**Projekty:** VEGA 2/0047/15, APVV-15-0295

**Referencia:** Witkovský, V., Wimmer, G., *Generalized Polynomial Comparative Calibration: Parameter Estimation and Applications.* In: S. Y. Yurish, *Editor* Advances in Measurements and Instrumentation: Reviews, Book Series, Vol. 1, International Frequency Sensor Association (IFSA) Publishing, 2018, 15-52, ISBN: 978-84-09-07321-4

**Generalized Polynomial Comparative Calibration: Parameter Estimation and Applications**

Described were methods and algorithms, based on using the classical regression approach used for the errors-in-variable model and applied it for the comparative calibration with the generalized polynomial calibration function. The present approach is based on strictly metrologist considerations. The inputs quantities are fully characterized by their state-of-knowledge distributions, derived from the associated uncertainty budgets of the direct measurements from the calibration experiment, which allows to combine type A and type B methods of evaluation of the measurements, as well as to incorporate correlated measurements with the comparative calibration, i.e. with the situation when both variables entering the calibration experiment are subject to errors (including the used measurement standard). On a real example is the whole procedure illustrated. Appendixes incorporate all needed theoretical results.

**Authors:** V. Witkovský (ÚM SAV), **G. Wimmer** (MÚ SAV)

**Projects:** VEGA 2/0047/15, APVV-15-0295

**Reference:** Witkovský, V., Wimmer, G., *Generalized Polynomial Comparative Calibration: Parameter Estimation and Applications.* In: S. Y. Yurish, *Editor* Advances in Measurements and Instrumentation: Reviews, Book Series, Vol. 1, International Frequency Sensor Association (IFSA) Publishing, 2018, 15-52, ISBN: 978-84-09-07321-4

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**Využitie učenia posilňovaním pri riadení prepravy plynu**

Riešilo sa učenie posilňovaním pre vybrané problémy pri riadení prepravy plynu. Učenie posilňovaním, ktoré je súčasťou strojového učenia, je v súčasnosti jednou z najaktívnejších oblastí výskumu umelej inteligencie. Úlohou je naučiť agenta vykonávať optimálne akcie na základe vlastností okolia v ktorom sa aktuálne nachádza. Učebný proces je založený na vyhodnotení akcie, napr. prestavenia otáčok kompresorov. Na vyhodnotenie akcie sa používa simulátor toku plynu v potrubnej sieti. Ukazuje sa, že napriek dlhému učiacemu procesu, je agent po vyškolení schopný urobiť správne autonómne rozhodnutia alebo prinajmenšom pomôcť dispečerovi.

**Autori:** T. Žáčik (vedúci), I. Mračka, R. Hajossy, M. Hyčko

**Projekt:** 1235 Optimalizácia prepravy plynu tranzitným plynovodom

**Referencia:** T. Žáčik, I. Mračka, R. Hajossy, M. Hyčko: Reinforcement Learning in Gas Transport Control. In: PSIG 2018, May 15–18, Deer Valley, Utah, USA

**Reinforcement** l**earning utilization in gas transport control**

Reinforcement learning was adapted to the gas transport problems. Reinforcement learning, which is part of machine learning, is currently one of the most active areas of artificial intelligence research. The task is to teach an agent to perform optimal actions based on the characteristics of the environment in which it is currently located. The learning process is based on the evaluation of actions (e.g., compressor revolutions setting) using the gas flow simulator in the pipeline network. It turns out that despite the long learning process, if the agent is trained, he is able to make the right decisions autonomously or at least to help the dispatcher.

**Authors:** T. Žáčik (head), I. Mračka, R. Hajossy, M. Hyčko

**Project:** 1235 Gas transport optimization through transit pipelines

**Reference:** T. Žáčik, I. Mračka, R. Hajossy, M. Hyčko: Reinforcement Learning in Gas Transport Control. In: PSIG 2018, May 15–18, Deer Valley, Utah, USA

**2.3.3. Medzinárodné vedecké projekty**

**Šarkany a reziduované zväzy**

Skúmali sme novú konštrukciu integrálneho reziduovaného zväzu vychádzajúc z integrálneho zväzu a dvoch množín s injektívnym zobrazením jednej množiny do druhej. Výsledná algebra má tvar kaskádového čínskeho šarkana a preto túto algebru voláme jednoducho šarkan (kite). Popísali sme subdirektne ireducibilné šarkany a klasifikovali sme ich. Ukázali sme, že varieta integrálnych reziduovaných zväzov generovaná šarkanmi je generovaná všetkými konečno-rozmernými šarkanmi. Popísali sme tiež niektoré homomorfizmy medzi šarkanmi.

**Autori:** **A. Dvurečenskij** (MÚ SAV), M. Botur (Uni. Olomouc, ČR)

**Projekty:** APVV-16-0073 and VEGA No. 2/0069/16 SAV, GAČR 15-15286S

**Referencia:** M. Botur, **A. Dvurečenskij**, Kites and residuated lattices, Algebra Universalis **79** (2018), Art. 83. 26 p. DOI: 10.1007/s00012-018-0564-2

**Kites and residuated lattice**

We investigated a new construction of an integral residuated lattice starting from an integral residuated lattice and two sets with an injective mapping from one set into the second one. The resulting algebra has a shape of a Chinese cascade kite, therefore, we call this algebra simply a kite. We described subdirectly irreducible kites and we classify them. We show that the variety of integral residuated lattices generated by kites is generated by all finite-dimensional kites. In particular, we described some homomorphisms among kites.

**Authors:** **A. Dvurečenskij** (MÚ SAV), M. Botur (Uni. Olomouc, ČR)

**Projects:** APVV-16-0073 and VEGA No. 2/0069/16 SAV, GAČR 15-15286S

**Reference:** M. Botur, **A. Dvurečenskij**, Kites and residuated lattices, Algebra Universalis **79** (2018), Art. 83. 26 p. DOI: 10.1007/s00012-018-0564-2

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**Rozsahy akceptačných stavových zložitostí jazykov**

Skúmali sme akceptačnú stavovú zložitosť, t.j. najmenší počet akceptačných stavov deterministického konečného automatu pre jazyky, ktoré sú výsledkom unárnych a binárnych operácií na jazykoch s akceptačnou stavovou zložitosťou danou ako parameter. Je to pokračovanie diela J. Dassowa: On the number of accepting states of finite automata, J. Autom., Lang. Comb., 21, 2016. Vyriešili sme väčšinu jeho otvorených problémov. Konkrétne, uvažujeme operácie prieniku, symetrického rozdielu, pravého a ľavého kvocientu, zrkadlového obrazu, a permutácie (na konečných jazykoch), kde sme dosiahli presné rozsahy akceptačných stavových zložitostí. Tieto rozsahy sú: od 0 do mn pre prienik, množina prirodzených čísel s nulou pre symetrickú rozdiel a pravý a ľavý kvocient, množina prirodzených čísel pre zrkadlový obraz, a množina prirodzených čísel bez jednotky pre permutáciu na konečných jazykoch.

**Autori:** **M. Hospodár** (MÚ SAV), M. Holzer (Universität Giessen, DE)

**Projekty:** VEGA 2/0084/15, APVV-15-0091

**Referencia:** M. Hospodár, M. Holzer, The Ranges of Accepting State Complexities of Languages Resulting from Some Operations. In: Proceedings of CIAA 2018, LNCS 10977, Springer, pp. 198-210 (2018) ISBN 978-3-319-94811-9

**The Ranges of Accepting State Complexities of Languages**

We examined the accepting state complexity, i.e., the minimal number of accepting states of deterministic finite automata for languages resulting from unary and binary operations on languages with accepting state complexity given as a parameter. This is continuation of the work of J. Dassow: On the number of accepting states of finite automata, J. Autom., Lang. Comb., 21, 2016. We solved most of the open problems mentioned thereof. In particular, we considered the operations of intersection, symmetric difference, right and left quotients, reversal, and permutation (on finite languages), where we have obtained precise ranges of the accepting state complexities. The ranges are: from 0 to mn for intersection, set of natural numbers with zero for symmetric difference and right and left quotient, set of natural numbers for reversal, and set of natural numbers without one for permutation on finite languages.

**Authors:** **M. Hospodár** (MÚ SAV), M. Holzer (Universität Giessen, DE)

**Projects:** VEGA 2/0084/15, APVV-15-0091

**Reference:** M. Hospodár, M. Holzer, The Ranges of Accepting State Complexities of Languages Resulting from Some Operations. In: Proceedings of CIAA 2018, LNCS 10977, Springer, pp. 198-210 (2018) ISBN 978-3-319-94811-9

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**O generujúcich množinách klonovacích agregačných funkcií na konečných zväzoch**

Popísali sme všeobecnú metódu vhodnú na nájdenie generujúcich množín agregačných klonov na konečných zväzoch. Spomínaný prístup je založený na rozšírení L-hodnotových kapacít a vedie k tzv. plným systémom agregačných funkcií. Našli sme viaceré plné systémy agregačných funkcií, spĺňajúce rôzne ohraničenia kladené na aritu generujúcich funkcií.

**Autori:** R. Halaš (Uni. Olomouc, ČR), R. Mesiar (STU Bratislava), **J. Pócs** (MÚ SAV)

**Projekty:** GAČR no. 18-06915S, GAČR no. 18-06915S, APVV-16-0073

**Referencia:** R. Halaš, R. Mesiar, J. Pócs: On generating sets of the clone of aggregation functions on finite lattices, Information Sciences **476** (2019), 38–47.

**On generating sets of the clone of aggregation functions on finite lattices**

In this paper, a general method for constructing generating sets of the aggregation clone on finite lattices is presented. The approach is based on extending of L -valued capacities leading to the so-called full systems of aggregation functions. Several full systems on L are presented and their arities are discussed.

**Authors:** R. Halaš (Uni. Olomouc, ČR), R. Mesiar (STU Bratislava), **J. Pócs** (MÚ SAV)

**Projects:** GAČR no. 18-06915S, GAČR no. 18-06915S, APVV-16-0073

**Reference:** R. Halaš, R. Mesiar, J. Pócs: On generating sets of the clone of aggregation functions on finite lattices, Information Sciences **476** (2019), 38–47.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2018/ doplnky z r. 2017** |
| **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) | **1 / 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) | **39 / 4** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **28 / 1** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **6 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **0 / 0** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **3 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **2 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **1 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **1** |
| **18. Ostatné vydané periodiká** | **2** |
| **19. Zostavovateľské práce knižného charakteru**   (FAI) | **2 / 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 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. 2017 (zdroj JCR)**   *Počet článkov / doplnky 2016* | 13 / 0 | 15 / 3 | 9 / 1 | 8 / 0 | 45 / 4 |
| **Podľa SJR z r. 2017 (zdroj Scimago)**   *Počet článkov / doplnky 2016* | 20 / 1 | 23 / 2 | 14 / 1 | 8 / 0 | 65 / 4 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2017/ doplnky z r. 2016** |
| **Citácie vo WOS (1.1, 2.1)** | 961 / 12 |
| **Citácie v SCOPUS (1.2, 2.2)** | 69 / 2 |
| **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)** | 23 / 5 |
| **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** | 74 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 7 |

**Účasť a vedenie seminárov**

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

**vedúci:** R. Frič

**referáty:** D. Babicová (rod. Štiberová), J. Borsík, P. Eliaš, R. Frič, E. Halušková, M. Hospodár, I. Krajňáková, M.Ploščica, J. Pócs, M. Repický,

**účasť:** G. Jirásková, P. Mlynárčik

**Seminár z kvantových logík**

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

**referáty:** D. Babicová (rod. Štiberová), R. Frič

**účasť:** A. Jenčová, M. Hyčko, M. Plávala, E. Vinceková

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

**vedúci:** L. Bukovský (PF UPJŠ)

**referáty:** P. Eliaš (6x), M. Repický (4x)

**Seminár o fuzzy logike a pravdepodobnosti na PF UPJŠ**

**vedúci:** S. Krajči (PF UPJŠ)

**referáty:** D. Babicová (rod. Štiberová), P. Eliaš (4x), R. Frič (4x),

**Seminár z usporiadaných štruktúr na PF UPJŠ**

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

**referáty:** E. Halušková (2x), M. Ploščica (3x), J. Pócs (3x)

**Set-Valued Analysis**

**vedúci:** Ľ. Holá

**účasť:** B. Novotný

**Seminár z teoretickej informatiky**

**vedúci:** G. Jirásková

**účasť:** G. Jiráskova

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

**vedúci:** T. Macko

**referáty:** T. Macko (4x)

**Seminár z algebraickej geometrie na FMFI UK**

**vedúci:** P. Chalmoviansky (FMFI UK)

**referáty:** T. Macko

**Seminár z algebraickej a diferenciálnej topológie**

**na FMFI UK, MÚ SAV a Masarykovej univerzite Brno, ČR**

**vedúci:** M. Čadek (MU Brno), T. Macko

**referáty:** T. Macko

**účasť:** J. Korbaš

**Seminár z univerzálnej algebry a usporiadaných množín na PřF Univ. Olomouc**

**vedúci:** I. Chajda (PřF Univ. Olomouc), J. Rachůnek (PřF Univ. Olomouc)

**účasť:** J. Pócs

**Konvexné štruktúry a kategórie na MÚ SAV**

**vedúci:** G. Jenča (Svf STU, Bratislava)

**referáty:** A. Jenčová (2x), M. Plávala

**účasť:** S. Pulmannová

**2.6. Vyžiadané prednášky**

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

 **DVUREČENSKIJ, A.**: *EMV-algebras-Extended MV-algebras*, Algebra and Substructural Logics, Take 6 (AsubL Take 6), Cagliari, Taliansko, 10.–15. 6. 2018.

 **JENČOVÁ, A.**: *Incompatible measurements in general probabilistic theories*, Quantum Information Theory and Mathematical Physics 2018, Budapešť, Maďarsko, 20.–23. 9. 2018.

 **JENČOVÁ, A.**: *Rényi relative entropies and sufficiency of quantum channels*, Beyond I.I.D. in Information Theory, Isaac Newton Institute, Cambridge, UK, 23.–27. 7. 2018.

 **JENČOVÁ, A.**: *A geometric view on quantum incompatibility*, Three Days in quantum Mechanics, Genoa, Taliansko, 6.–8. 6. 2018.

 **JIRÁSKOVÁ, G.**: *Deterministic blow-ups of nondeterministic finite automata*, International Workshop DLT's Satellite Workshop 2018, Kyoto, Japan, 5.–7. 9. 2018.

 **NEDELA, R.**: *Skew morphisms of cyclic groups and regular dessins*, International Workshop on Symmetries of Graph and Networks 2018 (IWSGN 2018), Sanya, China, 25. 1.–3. 2. 2018.

 **NEDELA, R.**: *Skew morphisms of groups, regular maps and dessins*, The Third International Conference On Group Actions and Transitive Graphs, SUSTECH, Shenzen, China, 12.–14. 10. 2018.

 **NEDELA, R.**: *Graph coverings and harmonic morphisms on graphs*, 30th Workshop on Topological Graph Theory, Yokohama, Japonsko, 24.–26. 10. 2018.

 **PLÁVALA, M.**: *Incompatibility in general probabilistic theory*, IQSA Quantum Structures 2018, Kazaň, Rusko, 16.–20. 7. 2018.

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

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

 **HOLÁ, Ľ.**— HOLÝ, D.: *Compactness in function spaces*, Univerzita v Perugii, Department of Mathematics and Computer Sciences, 20. 11. 2018.

 **PLÁVALA, M.**: *No-free-information principle in general probabilistic theories*, Perimeter Institute for Theoretical Physics, Waterloo, Kanada, 4. 12. 2018.

 **VAJTERŠIC, M.**: *Fast biharmonic solver based on orthogonal matrix decomposition*, Blavatnik School of Computer Science, Tel Aviv University, Tel Aviv, Izrael, 8. 5. 2018.

 **VAJTERŠIC, M.**: *Parallelization approaches for SVD based on block Jacobi methods*, Department of Computer Sciences, Hebrew University, Jerusalem, Izrael, 9. 5. 2018.

 **VAJTERŠIC, M.**: *Image reconstruction and retrieval with parallel Singular Value Decomposition (SVD)*, Faculty of Information Technology, Czech Technical University, Prague, ČR, 4. 6. 2018.

 **VAJTERŠIC, M.**: *Parallel nonnegative matrix factorization (NMF) and its applications*, Faculty of Information Technology, Czech Technical University, Prague, ČR, 6. 6. 2018.

 **VAJTERŠIC, M.**: *Matrix decomposition methods applied to selected problems of parallel numerics*, Polish-Japanese Academy of Information Technology, Warsaw, Poľsko, 14. 6. 2018.

 **VAJTERŠIC, M.**: *Some examples and notes on algorithms for parallel computers,* Slovak Technical University in Bratislava, Faculty of Informatics and Information Technology, Bratislava, 1. 10. 2018.

 **VAJTERŠIC, M.**: *Some examples of algorithms for parallel supercomputers*, Faculty of Natural Sciences, Matej Bel University, Banská Bystrica, 8. 11. 2018.

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

 **BABICOVÁ** (rod. **ŠTIBEROVÁ**)**, D**.: *Stochastic independence/dependence in fuzzified probability theory*, 19th International Student Conference on Applied Mathematics and Informatics, ISCAMI 2018, Malenovice, ČR, 10.–13. 5. 2018.

 **BEČKA, M.**: *New preconditioning for the parallel one-sided block-Jacobi SVD algorithm*, PMAA '18, Zurich, 27.–29. 6. 2018.

 **BORSÍK, J.**: *Points of uniform convergence and quasicontinuity*, 32nd International Summer Conference on Real Functions Theory 2018, Stará Lesná, 2.–7. 9. 2018.

 BUTKA, P.— **PÓCS, J.**— PÓCSOVÁ, J.: *Isotone Galois connections and generalized one-sided concept lattices*, MISSI 2018, Wroclav, 12-14.9.2018.

 **ČUNDERLÍKOVÁ, K.**: *The Pickands-Balkema-de Haan theorem for intuitionistic fuzzy events*, 22th International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulgary, 12.–13. 5. 2018.

 **ČUNDERLÍKOVÁ, K.**: *Convergence of intuitionistic fuzzy observables*, The 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets to the memory of Professor Beloslav Riečan (1936-2018), IWIFSGN'2018 Warsaw, Poland, 27.–28. 9. 2018.

 ĎURIŠ, S.— ĎURIŠOVÁ, Z.— **WIMMER, G.**— ADAM, P.: *Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material*, XXII World Congress of the International Measurement Confederation (IMEKO), Institute of Measurement and Control, Waterfront Centre in Belfast, UK, 3.–6. 9. 2018.

 ĎURIŠ, S.— ĎURIŠOVÁ, Z.— **WIMMER, G.**— WITKOVSKÝ, V.— PAVLÁSEK, P.— PALENČÁR, J. : *Determination of certified value and its uncertainty by several methods showed on gaseous primary reference material of ethanol in nitrogen prepared by gravimetric method*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.

 **ELIAŠ, P.**: *A Galois connection related to restrictions of continuous real functions*, 32nd International Summer Conference on Real Functions Theory, Stará Lesná, 2.–7. 9. 2018.

 FLATZ, M.— KUTIL, R.— **VAJTERŠIC, M.**: *Parallelization of the hierarchical alternating least squares algorithm for nonnegative matrix factorization*, 4th International Forum Research and Technologies for Society and Industry (IEEE RTSI 2018), Palermo, Italy, 10.–13. 9. 2018.

 **FRIČ, R.**: *Product of measurable spaces and applications*, The 32nd International Summer School on Real Functions Theory Stará Lesná, 2.–7. 9. 2018.

 **FRIČ, R.**— **PAPČO, M.**: *Fuzzy stochastic channel and asymmetrical stochastic independence I*, The 14th International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, 28. 1.–2. 2. 2018.

 **FRIČ, R.**— **PAPČO, M.**: *Fuzzy stochastic channel and asymmetrical stochastic independence II*, The 14th International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, 28. 1.–2. 2. 2018.

 HALAŠ, R.— MESIAR, R.— **PÓCS, J.**: *Composition based generation of aggregation functions on real interval, FSTA 2018, Liptovský Ján, 28.1.-2.2.2018*

 HALAŠ, R.— MESIAR, R.— **PÓCS, J.**: *A note on generating sets for aggregation clones on finite lattices*, ISAS 2018, Valladolid, 2.–5. 7. 2018.

 HALAŠ, R.— **PÓCS, J.**: *On some algebraic properties of discrete Sugeno integrals: composition and associativity*, MDAI 2018, Palma de Mallorca, 15.–18. 10. 2018.

 **HALUŠKA, J.**: *The Euclidean space E3 as an algebraic field*, AALCS XXII, Zakopane, Poľsko, 5.–10. 3. 2018.

 **HALUŠKOVÁ, E.**: *The endomorphism kernel property for (non-connected) monounary of algebras*, AAA95, Bratislava, 8.–11. 2. 2018.

 **HALUŠKOVÁ, E.**: *On limit closed classes of algebras*, AALCS XXII, Zakopane, Poľsko, 5.–10. 3. 2018.

 **HALUŠKOVÁ, E.**: *Some monounary algebras with EKP*, SSAOS, Špindleruv Mlýn, Česko, 2.–7. 9. 2018.

 HOLZER, M.— **HOSPODÁR, M.**: *The range of state complexities of languages resulting from the cut operation*, DLT's Satellite Workshop in Kyoto, Japonsko, 5.–7. 9. 2018.

 **HOSPODÁR, M.**— **JIRÁSKOVÁ, G.**— **KRAJŇÁKOVÁ, I.**: *Operations on Boolean and alternating finite automata*, CSR 2018, Moskva, Rusko, 6.–10. 6. 2018.

 **HOSPODÁR, M.**— **PALMOVSKÝ, M.**: *Nondeterministic complexity of power and positive closure on subclasses of convex languages*, DLT's Satellite Workshop in Kyoto, Japonsko, 5.–7. 9. 2018.

 **HYČKO, M.**: *Hyper pseudo effect algebras*, FSTA 2018, Liptovský Ján, 29. 1.–2. 2. 2018.

 **JENČOVÁ, A.**: *Rényi relative entropies and noncommutative Lp-spaces*, 18th Workshop: Noncommutative Probability, Operators Algebras, Random Matrices and Related Topics, with Applications, Bedlewo, Poľsko, 15.–21. 7. 2018.

 **JENČOVÁ, A.**: *Sufficiency of quantum channels by Rényi divergences*, Quantum Statistics and Related Topics, Lodz, Poľsko, 6.–8. 12. 2018.

 **JIRÁSKOVÁ, G.**— OKHOTIN, A.: *State complexity of unambiguous operations on deterministic finite automata*, Descriptional Complexity of Formal Systems 2018, Halifax, Canada, 25.–27. 7. 2018.

 **JIRÁSKOVÁ, G.**— OKHOTIN, A.: *Towards exact state complexity bounds for input-driven pushdown automata*, Developments in Language Theory 2018, Tokyo, Japan, 10.–14. 9. 2018.

 **KORBAŠ, J.**: *An explicit formula for the cup-length of SO(n)*, CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.

 **MACKO, T.**: *On the cardinality of the manifold set*, CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.

 **MICHALÍKOVÁ, A.**— **RIEČAN, B.**: *On some methods of probability*, 22th International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulgary, 12.–13. 5. 2018 (prezentovala A. Michalíková).

 **MICHALÍKOVÁ, A.**— **RIEČAN, B.**: *On states on fuzzy MV-algebra*, 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets (IWIFSGN'2018), Warsaw, Poland, 27.–28. 9. 2018 (prezentovala A. Michalíková).

 **NEDELA, R.**: *Cayley cubic graphs of small girth*, CLX Seminar, Mikulov, ČR, 5.–8. 2. 2018.

 **NEDELA, R.**: *Hamilton cycles in cubic Cayley graphs of small girth*, Graphs, Groups and More, Koper, Slovenia, 20. 5.–3. 6. 2018.

 **NEDELA, R.**: *Representation of the automorphism group of a graph in the automorphism group of its Jacobian*, CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**: *Space of real-valued minimal cusco maps*, The 32nd International Summer Conference on Real Functions Theory, Stará Lesná, 2.–7. 9. 2018.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**: *Properties of the space of minimal convex usco maps*, 2018 International Conference on Topology and its Applications, Nafpaktos, Greece, 7.–11. 7. 2018 (Prezentoval B. Novotný).

 **OKŠA, G.**— YAMAMOTO, Y.— **BEČKA, M.**— **VAJTERŠIC, M.**: *Asyptotic quadratic convergence of the two-sided parallel block-Jacobi SVD algorithm*, PMAA18, Zurich, Switzerland, 27.–29. 6. 2018.

 **PLÁVALOVÁ, E.**— ROASEV, A.: *The method of relative velocity calculation for the study of very young asteroid families and pairs*, XXXth General Assembly of the International Astronomical Union, Vienna, 20.–31. 8. 2018.

 **PLOŠČICA, M.**: *Congruence FD-maximal algebras*, Summer School on General Algebra and Ordered Sets, Špindlerův Mlýn, ČR, 2.–9. 9. 2018.

 RÁBOŇOVÁ, P.— **WIMMER, G.**: *Konfidenčné oblasti pre koeficienty kalibračnej funkcie*, ROBUST 2018, 20. zimní škola JČMF. Rybník, ČR, 21.–26. 1. 2018.

 **RIEČAN, B.**: *On states on fuzzy sets, FSTA 2018, Liptovský Ján, 28. 1.–2. 2. 2018.*

 ***VINCEKOVÁ, E.****: Ideals, congruences and RDP on unitizations of generalized pseudo effect algebras*, AAA 95, Bratislava, 9.–11. 2. 2018.

 ***WIMMER, G.****— PAVLÁSEK, P.— PALENČÁR, R.— ĎURIŠ, S.— PALENČÁR, J.— MANIUR, M.I.: Possibilities in improving platinum resistance thermometer calibration*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.

 ***WIMMER, G.****— WITKOVSKÝ, V.: Revisited S4 from EA-4/02. Calibration of a gauge block of nominal length 50 mm*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.

 **WIMMER, G.**— WITKOVSKÝ, V.: *Model of polynomial calibration*, XXII World Congress of the International Measurement Confederation (IMEKO), Institute of Measurement and Control, Waterfront Centre in Belfast, UK, 3.–6. 9. 2018.

**2.6.5. Prednášky na domácich vedeckých podujatiach**

 **BABICOVÁ (**rod. **ŠTIBEROVÁ), D.**: *Od klasickej ku deliteľnej pravdepodobnosti*, 50. konferencia slovenských matematikov, Jasná, 22.–25. 11. 2018.

 **ČUNDERLÍKOVÁ, K.**: *A memorial to Professor Beloslav Riečan*, Workshop on Intuitionistic fuzzy sets in memoriam Beloslav Riečan, Banská Bystrica, 26. 9. 2018.

 **ČUNDERLÍKOVÁ, K.**: *Upper and lower limits and m-almost everywhere convergence of intuitionistic fuzzy observables*, Workshop on Intuitionistic fuzzy sets in memoriam Beloslav Riečan, Banská Bystrica, 26. 9. 2018.

 **HALUŠKOVÁ, E.**: *On real functions and monounary algebras*, 19. konferencia košických matematikov, Herľany, 12.–14. 4. 2018.

 **HALUŠKOVÁ, E.**: *Monounárne algebry a reálne funkcie*, 50. konferencia košických matematikov, Jasná pod Chopkom, 23.–25. 11. 2018.

 HOLZER, M.— **HOSPODÁR, M.**: *Complexity of languages resulting from the cut operation in the unary case*, NCMA 2018, Košice, 21.–22. 8. 2018.

 **HOSPODÁR, M.**—**PALMOVSKÝ, M.**: *Nondeterministic complexity of power and positive closure on subclasses of convex languages*, NCMA 2018, Košice, 21.–22. 8. 2018.

**2.6.6. Prednášky na významných vedeckých inštitúciách**

 **BABICOVÁ (**rod. **ŠTIBEROVÁ), D.**: *State as a linearization and a stochastic (in)dependence in the generalized probability theory*, Research Centre for Quantum Social and Cognitive Science (IQSCS), University of Leicester - IQSCS seminar, Leicester, UK, 2. 3. 2018.

 **JIRÁSKOVÁ, G.**: *Operations on languages represented by unambiguous finite automata*, Department of Computer Science, University of Saskatchewan, seminár, Saskatoon, Canada, 7. 8. 2018.

 **JIRÁSKOVÁ, G.**: *Operations on languages represented by unambiguous finite automata*, Department of Computer Science, Kyoto Sangyo University, seminár, Kyoto, Japan, 8. 9. 2018.

 **MACKO, T.**: *On the cardinality of the manifold set*, Masarykova Univerzita, Brno, ČR, 23. 3. 2018.

 **NEDELA, R.**: *Linear representations of automorphism groups, Jacobians and Homology groups of graphs*, Tohoku University, Sendai, Japonsko, 30. 10. 2018.

 **NEMOGA, K.**: *Postquantum secure group communication*, Otvárací seminár projektu NATO SPS SPS G5448 "Secure Communication in the Quantum Era", Univ. Malta, Malta, 27.7 9.–1. 10. 2018.

 **PLÁVALA, M.**: *Introduction to general probabilistic theories*, University of Turku, Turku, Fínsko, 15. 2. 2018.

 **PLÁVALA, M.**: *No-free-information principle in general probabilistic theories*, University of Turku, Turku, Fínsko, 28. 5. 2018.

 **VAJTERŠIC, M.**: *ERASMUS+ Course on HPC Methods and Applications,* Tel Aviv University, Blavatnik School of Computer Science, Tel Aviv, 8.–17. 5. 2018*.*

 **VAJTERŠIC, M.**: *ERASMUS+ Course on Parallel Algorithms for HPC,* Czech Technical University, Faculty of Information Technology, Prague, ČR, 4.–8. 6. 2018*.*

**2.6.7. Ostatné prednášky a vývesky**

 **MRAČKA, I.**—**ŽÁČIK, T.**— **HAJOSSY, R.**— **HYČKO, M.**: *Reinforcement learning in gas transport control*, PSIG 2018, Deer Valley, Utah, USA, 15.–18. 5. 2018 (prezentoval I. Mračka).

 **NEMOGA, K.**: *Challenges and Opportunities for Europe*, Open Data in Science, Brusel, Belgicko, 31. 1. 2018.

 **NEMOGA, K.**: *Open Science publishing in Slovakia*, ALLEA Workshop: Ethical aspects of Open Access: A Windy Road, Brusel, Belgicko, 1. 2. 2018.

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

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2018**

**2.7.1. Vynálezy, na ktoré bol udelený patent**

**2.7.2. Prihlásené vynálezy**

**2.7.3. Predané licencie**

**2.7.4. Realizované patenty**

*Finančný prínos pre organizáciu SAV v roku 2018 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** |
| Plávala Martin | AXA Nadačný fond v Nadácii Pontis | 20 |

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

Počet autorov hesiel: 0

**2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch**   
   
Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Meno pracovníka** | **Knižné monografie** | | **Príspevky v časopisoch** | | | **Zborníky** | |
| **Domáce** | **Zahra-  ničné** | **WoS, SCOPUS** | **Iné databázy** | **Ostatné** | **Domáce** | **Zahra-  ničné** |
| Borsík Ján | 0 | 0 | 1 | 9 | 0 | 0 | 0 |
| Dobrev Stefan | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Dvurečenskij Anatolij | 0 | 0 | 7 | 8 | 0 | 0 | 0 |
| Eliaš Peter | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Fečkan Michal | 0 | 2 | 16 | 0 | 0 | 0 | 0 |
| Holá Ľubica | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Hyčko Marek | 0 | 0 | 17 | 3 | 0 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 6 | 0 | 0 | 0 | 1 |
| Jirásková Galina | 0 | 1 | 4 | 0 | 0 | 0 | 3 |
| Kochol Martin | 0 | 0 | 4 | 10 | 0 | 0 | 0 |
| Korbaš Július | 0 | 0 | 0 | 4 | 4 | 0 | 0 |
| Macko Tibor | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Novotný Branislav | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Okša Gabriel | 0 | 0 | 4 | 4 | 0 | 0 | 0 |
| Palmovský Matúš | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Ploščica Miroslav | 0 | 0 | 9 | 5 | 0 | 0 | 0 |
| Pócs Jozef | 0 | 0 | 8 | 2 | 0 | 0 | 0 |
| Pospíšil Michal | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Pulmannová Sylvia | 0 | 0 | 3 | 4 | 0 | 0 | 0 |
| Repický Miroslav | 0 | 0 | 3 | 21 | 0 | 0 | 0 |
| Strauch Oto | 0 | 0 | 1 | 5 | 0 | 0 | 0 |
| Vajteršic Marian | 0 | 0 | 5 | 0 | 0 | 0 | 21 |
| Wimmer Gejza | 1 | 0 | 3 | 0 | 0 | 0 | 3 |
| **Spolu** | **1** | **3** | **119** | **75** | **4** | **0** | **29** |

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

**Ostatné dosiahnuté výsledky:**

 V teórii zovšeobecnej pravdepodobnosti, ktorá je epireflexiou klasického kolmogorovského modelu pravdepodobnosti, boli dosiahnuté ďalšie výsledky. Napr. bola opísaná asymetrická stochastická závislosť/nezávislosť dvoch experimentov a podmienená pravdepodobnosť.

 Navrhli a implementovali sme nový paralelný algoritmus na výpočet SVD, ktorý je pre dobre podmienené matice rýchlejší ako najrýchlejší z algoritmov knižnice SCALAPACK.

 Boli charakterizované body rovnomernej konvergencie pre kvázispojité funkcie.

 Bola dokázaná Pickandsova-Balkemaova-de Haanova veta pre intuicionistické fuzzy udalosti. Ide o druhú dôležitú vetu z teórie extrémnych hodnôt, ktorá je časťou štatistiky. Podarilo sa zaviesť horné a dolné limity a sformulovať konvergenciu skoro všade pomocou stavov a horných a dolných limít pre postupnosť intuicionistických fuzzy pozorovateľných.

 Zaoberali sme sa modelom Stieltjesovej struny na fixovanom intervale s nelokálnymi okrajovými úlohami. Našli sme optimálne podmienky pre jeho jednoznačnú riešiteľnosť.

 Využívajúc jedno-jednoznačný vzťah medzi pozorovateľnými a spektrálnymi rozkladmi na σ-úplných MV-efektových algebrách sme definovali súčet pozorovateľných. Vzhľadom k Olsonovskému usporiadaniu, systém všetkých ohraničených pozorovateľných tvorí Dedekindovskú σ-l-grupu so silnou jednotkou.

 Definujeme usporiadanie na množine ohraničených Markovovských jadier združených s tribom fuzzy množín. Ukázali sme, že vzhľadom k tomuto usporiadaniu, množina ohraničených Markovovských jadier je Dedekindovská σ -úplná l-grupa. Definujeme tiež súčet ohraničených Markovovských jadier takže množina ohraničených Markovovských jadier je zväzovo usporiadaná semigrupa.

 Študovali sme pozorovateľné na monotónne σ-úplných Dedekindovských efektových algebrách a ukázali sme podmienky, kedy spektrálny rozklad implikuje existenciu odpovedajúcej pozorovateľnej.

 Študovali sme stavy na pseudo MV-algebrách s hodnotami v Rieszovom priestore.

 Skúmali sme materiálne implikácie vo zväzových efektových algebrách.

 Študoval sa vzťah medzi injektívnymi MV-algebrami a epi-úplnými MV-algebrami. Ukázali sme, že trieda deliteľných MV-algebier sa zhoduje s triedou epi-úplných MV-algebier.

 Pre novú triedu, zvanú EMV-algebry, sme definovali voľné EMV-algebry na množine generátorov X. Ak X je konečná množina, potom voľná EMV-algebra nad X je ekvivalentná s voľnou EMV-algebrou na X. Ak X je nekonečná množina, platí to isté ale pre tzv. slabo voľnú EMV-algebru.

 Študovali sme Galoisovu konexiu určenú rozširovaním spojitých reálnych funkcií. Boli popísané úplné zväzy generované touto konexiou intervalmi reálnych funkcií a charakterizované systémy funkcií generujúce príslušné zväzy.

 Ukázali sme existenciu bežiacich vĺn v analytickom ako aj numerickom tvare pre modely metamateriálov. Pomocou teórie bifurkácií sme skúmali jednorozmerný systém nekonečne veľa spriahnutých nelineárnych elektronických obvodov.

 Pomocou pojmu stochastického kanálu boli popísané vlastnosti spoločného experimentu, pričom určujúcu pozorovateľnú možno interpretovať ako podmienenú pravdepodobnosť.

 Nech X je lokálne kompaktný topologický priestor, (Y,d) ohraničene kompaktný topologický priestor a LB(X,Y) je priestor všetkých lokálne ohraničených funkcií z X do Y. Charakterizujeme kompaktné podmnožiny priestoru LB(X,Y) vybaveného topológiou rovnomernej konvergencie na kompaktoch.

 Klamúca množina pre regulárny jazyk je špeciálna množina dvojíc reťazcov, ktorej veľkosť poskytuje dolnú hranicu na počet stavov v ľubovoľnom nedeterministickom konečnom automate akceptujúcom daný jazyk. Upravili sme túto metódu klamúcej množiny v prípade, ak viac počiatočných stavov môže ušetriť jeden stav. Tieto vylepšenia sú: klamúca množina pre automat, {q}-lema, trim-lema a lema o dosiahnuteľných a kodosiahnuteľných množinách pre doplnok.

 Skúmali sme popisnú zložitosť základných regulárnych operácií na jazykoch reprezentovaných booleovskými a alternujúcimi automatmi. Konkrétne, uvažujeme operácie rozdielu, symetrického rozdielu, uzáveru, zrkadlového obrazu, ľavého kvocientu a pravého kvocientu a dostaneme tesné horné hranice m+n, m+n, 2n, 2n, m a 2m pre booleovské automaty, a m+n+1, m+n, 2n, 2n, m+1 a 2m+1, pre alternujúce konečné automaty. Na popísanie witnessow pre symetrický rozdiel používame ternárnu abecedu. Všetky ostatné witnessy sú definované nad binárnou alebo unárnou abecedou, o ktorej dokazujeme, že je optimálna.

 Skúmali sme stavovú zložitosť jazykov, ktoré sú výsledkom operácie strojového zreťazenia dvoch unárnych regulárnych jazykov reprezentovaných minimálnymi deterministickými konečnými automatmi s m a n stavmi. Ukážeme, že iba zložitosti nanajvýš 2m-1 a medzi n a m+n-2 môžu byť dosiahnuté, zatiaľ čo ak 2m je menej ako n-1, potom zložitosti od 2m do n-1 nemôžu byť dosiahnuté.

 Skúmanie ďalších vlastností hyper pseudo efektových algebier.

 Bolo dokázané, že spektrálna efektová algebra má buď práve jeden alebo nespočítateľne veľa kontextov. Študovali sa aj ďalšie vlastnosti: našli sme podmienku, za ktorej je množina ostrých prvkov ortomodulárnym zväzom.

 Pre atomické von Neumannove algebry sme dokázali, že ak existuje normálny verný invariantný stav pre daný kanál, potom jeho decoherence-free podalgebra je oborom hodnôt vernej normálnej podmienenej strednej hodnoty, z čoho vyplývajú jej špeciálne vlastnosti, napr., je vždy atomická. Skúmali sme aj štruktúru tejto podalgebry, jej vzťah s podalgebrou pevných bodov kanálu a s tým súvisiaci pojem periódy pre reducibilné kanály.

 Dokázali sme, že tenzorový súčin (v kategórii efektových algebier) dimenzných efektových algebier je dimenzná efektová algebra.

 Zistili sme zložitosť jednoznačných operácií na deterministických automatoch.

 Upresnili sme horné a dolné odhady na zložitosť operácií na vstupom riadených zásobníkových automatoch.

 Získali sme presnú hodnotu stavovej zložitosti kombinovanej operácie star-complement-star.

 Študovali sme rekurzívne redukcie grafov pre ktoré je každý 3-zafarbiteľný lokálne súvislý podgraf nahradený trojuholníkom pričom vrcholy s rovnakou farbou sú redukované do jedného vrcholu. Existuje jedno-jednoznačná korešpondencia medzi 3-farbeniami pôvodného grafu a výsledného grafu vzniknutom po redukcii. Pomocou tohto princípu charakterizujeme triedy 3-zafarbiteľných grafov a zavádzame polynomiálne algoritmy ktoré rozpoznávajú grafy z týchto tried a vytvárajú 3-farbenia grafov z týchto tried.

 Skúmali sme problém vektorových polí na projektívnych Stiefelových varietach a problém určenia explicitnej formuly pre pohárovú dĺžku týchto variet (2 články).

 Boli dotiahnuté detaily v štúdiu akcie grupy homotopických ekvivalencií hAut(X) na štruktúrnej množine variety S(X), v jednoducho súvislom prípade, v nejednoducho súvislom prípade, aj v hladkej verzii.

 Študovali sme štruktúrnu množinu S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Nadviazali sme na predchádzajúce práce a ukázali sme zovšeobecnenie formuly C.T.C. Walla pre rho-invariant šošovkového priestoru na prípad, keď máme súčin LxD šošovkového priestoru a disku. Túto formulku sme potom použili pri našich výpočtoch. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny S(LxS) súčinu LxS šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.

 V nadväznosti na prípravné práce z minulého roku, sme pri chirugických prekážkach v párnych aj v nepárnych dimenziách dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov. Výsledky budú v pripravovanej monografie o základoch teórie chirurgií. Týmito sme odstránili niektoré chyby, ktoré sa tradične objavovali v mnohých prácach v tejto oblasti.

 Študovali sme priestor konvexných minimálnych usco zobrazení. Jeho vlastnosti ako úplná metrizovateľnosť, prvá a druhá axióma spočítateľnosti. Prvky tohto priestoru sú multifunkcie, ktoré sú dôležité napr. pri štúdiu subdiferenciálov konvexných funkcií. Preskúmali sme aproximáciu konvexných minimálnych usco zobrazení spojitými funkciami.

 Bola dokázaná asymptotická kvadratická konvergencia sériového a paralelného blokového Jacobiho algoritmu pre SVD matíc s dynamickým orderingom.

 Preskúmali sme kongruenčnú FD-maximálnosť pre viaceré typy algebier, predovšetkým pre také, v ktorých priesekovo ireducibilné kongruencie tvoria usporiadanú množinu dĺžky najviac 2.

 Boli študované rôzne generujúce množiny agregačného klonu a taktiež klonu idempotentných agregačných funkcií na konečných zväzoch. Ako jeden z hlavných výsledkov bola dosiahnutá redukcia doposiaľ známeho minimálneho počtu generátorov príslušných klonov.

 Na zovšeobecnených pseudoefektových algebrách bol zavedený nový typ kongruencie, tzv. R1-kongruencie, ktoré sú v 1-1 korešpondencii s R1-ideálmi. Boli nájdené podmienky, za ktorých kongruencie a ideály môžu byť rozšírené na unitizáciu zovšeobecnenej pseudoefektovej algebry.

 Bol ukázaný vzťah medzi Banachovými synaptickými algebrami a JB-algebrami, resp. AJW-algebrami.

 Alternatívne parciálne usporiadanie, tzv. spektrálne usporiadanie, bolo zavedené na synaptických algebrách. Bolo ukázané, že Banachova synaptická algebra je vzhľadom na toto usporiadanie Dedekindov σ-úplný zväz.

 Získali sa výsledky o kardinálnych invariantoch topologických priestorov nerozlišujúcich ideálové konvergencie postupností spojitých reálnych funkcií.

 Použili sme paralelizovanie algoritmu HALS (Hierarchical Alternative Least Squares) na výpočet NMF (Nonnegative Matrix Factorization).

 Vybudoval sa model komparatívnej kalibrácie s polynomickou kalibračnou funkciou. Model pripúšťa uvažovať možnosť korelovaných meraní, pričom sa uvažujú okrem kolísania dát (s normálnym rozdelením – neistoty typu A) aj korekcie typu B (s expertným určením rozdelenia). Z matematicko-štatistického pohľadu po linearizovaní modelu dostávame lineárny model s chybami v premenných. Určil sa najlepší lineárny nevychýlený odhad parametrov kalibračnej funkcie ako aj jeho kovariančná matica.

 Bol navrhnutý alternatívny pohľad na riešenie Príkladu S4 (kalibrácia meradla nominálnej dĺžky 50 mm) z technického doporučenia EA-4/02 a výsledky boli získané (i) pomocou metrologickej normy GUM, (ii) MCM metódou (pomocou Monte Carlo simulácií) a (iii) Metódou CFA (Characteristic Function Approach) založenej na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. Porovnávali sa jednotlivé výsledky a uviedli sa niektoré nové matematické výsledky.

 Dobudoval sa model komparatívnej kalibrácie (prípad, keď merania kalibrovaným prístrojom aj etalónom sú zaťažené chybami) s polynomickou kalibračnou funkciou. Predpokladá sa len kolísanie meraní (bez korekcií). Ukázané sú dve rôzne cesty získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou Kenwardových a Rogerových aproximácií. Získané konfidenčné oblasti sú simulačne porovnávané. Popísaný je aj proces merania kalibrovaným prístrojom.

 Zaoberali sme sa kalibráciou plynnej zmesi etanolu v dusíku o neznámej koncentrácii. Ako matematicko-štatistický model kalibrácie sa použil model s chybami v premenných. Po linearizácii prechádza tento model na lineárny regresný model s lineárnymi podmienkami na parametre. V tomto modeli sa určil najlepší lineárny nevychýlený odhad parametrov kalibračnej priamky spolu s kovariančnou maticou tohto odhadu. Marginálne rozdelenia pravdepodobnosti jednotlivých parametrov boli určené numerickou inverziou ich charakteristických funkcií a ďalej sa generovali náhodné výbery zo združeného rozdelenia využitím gaussovskej kopuly. Združené rozdelenie sa použilo pri určení hodnoty lineárnej kombinácie parametrov kalibračnej priamky, teda hodnoty neznámej koncentrácie.

 Plynné zmesi etanolu v dusíku sa pripravujú pomocou gravimetrickej metódy. Kvapalná zložka – etanol – sa pridáva do fľaše vzduchotesnou injekčnou striekačkou. Presné množstvo pridanej kvapaliny je určené vážením striekačky. Uvedené sú aplikovateľnosti rôznych prístupov pre analýzu neistôt ako metóda GUM-u, metóda Monte Carlo a metóda prístupu cez charakteristické funkcie.

 Analyzátory dychu sú meracie prístroje, ktoré na Slovensku musia byť overené. Overovanie sa realizuje použitím certifikovaného referenčného materiálu zmesi etanolu v dusíku v 4 úrovniach koncentrácie etanolu. Predložený bol prehľad krokov, ktoré kontrolujú nadväznosť merania od procesu verifikácie až po nadväznosť použitého referenčného materiálu na SI jednotku hmoty kg. Každý jednotlivý krok je popísaný aj so svojimi neistotami.

 Vybudoval sa model komparatívnej kalibrácie s polynomickou kalibračnou funkciou. Model pripúšťa uvažovať možnosť korelovaných meraní, pričom sa uvažujú okrem kolísania dát (s normálnym rozdelením – neistoty typu A) aj korekcie typu B (s expertným určením rozdelenia). Z matematicko-štatistického pohľadu po linearizovaní modelu dostávame lineárny model s chybami v premenných. Určil sa najlepší lineárny nevychýlený odhad parametrov kalibračnej funkcie ako aj jeho kovariančná matica.

 Bol navrhnutý alternatívny pohľad na riešenie Príkladu S4 (kalibrácia meradla nominálnej dĺžky 50 mm) z technického doporučenia EA-4/02 a výsledky boli získané (i) pomocou metrologickej normy GUM, (ii) MCM metódou (pomocou Monte Carlo simulácií) a (iii) Metódou CFA (Characteristic Function Approach) založenej na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. Porovnávali sa jednotlivé výsledky a uviedli sa niektoré nové matematické výsledky. Tento výsledok „Revisited S4 from EA-4/02. Calibration of a gauge block of nominal length 50 mm“ bol prezentovaný na International Seminar Mathematics, statistics and computation to support measurement quality (MSCSMQ 2018), May 29 - 31, 2018, D.I.Mendeleyev Institute for Metrology (VNIIM), St.Petersburg, Russia.

 Dobudoval sa model komparatívnej kalibrácie (prípad, keď merania kalibrovaným prístrojom aj etalónom sú zaťažené chybami) s polynomickou kalibračnou funkciou. Predpokladá sa len kolísanie meraní (bez korekcií). Ukázané sú dve rôzne cesty získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou Kenwardových a Rogerových aproximácií. Získané konfidenčné oblasti sú simulačne porovnávané. Popísaný je aj proces merania kalibrovaným prístrojom. Tento výsledok „Konfidenčné oblasti pre koeficienty kalibračnej funkcie“ bol prezentovaný na medzinárodnej konferencii ROBUST 2018, 20. zimní škola JČMF : Rybník 21.-26. ledna 2018 a publikovaný „Confidence Region for calibration Function Coefficients” v Measurement Science review, 18, (2018), No.6, 227-235.

 Študovali sme rekurzívne redukcie grafov pre ktoré je každý 3-zafarbiteľný lokálne súvislý podgraf nahradený trojuholníkom pričom vrcholy s rovnakou farbou sú redukované do jedného vrchola. Existuje jedno-jednoznačná korešpondencia medzi 3-farbeniami pôvodného grafu a výsledného grafu vzniknutom po redukcii. Pomocou tohto princípu charakterizujeme triedy 3-zafarbiteľných grafov a zavádzame polynomiálne algoritmy ktoré rozpoznávajú grafy z týchto tried a vytvárajú 3-farbenia grafov z týchto tried.

 Bola navrhnutá metóda generovania binárnych cirkulantných matíc s predpísaným počtom jednotiek pre potreby McEliecovho kryptosystému. Boli navrhnuté teoretické modely pre analýzu vlastností funkcie náhodného povrchu. Modely boli riešené implementáciou štatistických metód, Fourierovej analýzy a multifraktálovej analýzy.

 Experimentálne boli študované procesy Ramanovského rozptylu a určované spektrálne reflektancie v UV-VIS spektrálnej oblasti v hemisférickom usporiadaní.

 Optimalizáciou počiatočného odhadu stochastickými metódami a spresnením teoretického modelu simplexovými a gradientnými optimalizačnými algoritmami, boli teoretické modely optimalizované voči experimentálnym údajom.

**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 2018

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2018** | | | | | | **Počet ukončených doktorantúr v r. 2018** | | | | | |
|  | **Doktorandi** | | | | | | **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | po skúške | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Denná zo zdrojov SAV** | 3 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| **Denná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 3 | 3 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| **Súhrn** | 6 | | 0 | | 4 | | 0 | | 1 | | 0 | |

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie*

**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 2018 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** |

*Zoznam interných a externých doktorandov je uvedený v prílohe A.* **3.4. Medzinárodné doktorandské štúdium**

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

|  |  |  |  |
| --- | --- | --- | --- |
| **Cotutelle** | **Co-direction** | **Iné** | **Zahraniční doktorandi** |
| 0 | 0 | 0 | 0 |

**3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ**

Tabuľka 3e Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

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

Tabuľka 3f Účasť na pedagogickom procese

|  |  |  |
| --- | --- | --- |
| **Menný prehľad pracovníkov,   ktorí boli menovaní   do spoločných odborových   komisií pre doktorandské   štúdium** | **Menný prehľad pracovníkov,   ktorí pôsobili ako členovia   vedeckých rád univerzít,   správnych rád univerzít a fakúlt** | **Menný prehľad pracovníkov,   ktorí získali vyššiu vedeckú,   pedagogickú hodnosť   alebo vyšší kvalifikačný stupeň** |
| doc. RNDr. Ján Borsík, CSc. (matematická analýza) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | Mgr. Anna Jenčová, DrSc. (DrSc., Slovenská Akadémia Vied) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) | RNDr. Martin Plávala (RNDr., Univerzita Komenského v Bratislave) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | RNDr. Stanislav Jakubec, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králové, ČR) |  |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty) | prof. RNDr. Roman Nedela, DrSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika) | prof. RNDr. Roman Nedela, DrSc. (Fakulta prírodných vied UMB) |  |
| doc. RNDr. Roman Frič, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Roman Nedela, DrSc. (Univerzita Mateja Bela v Banskej Bystrici) |  |
| doc. RNDr. Roman Frič, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |

|  |  |  |
| --- | --- | --- |
| doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia) | prof. RNDr. Beloslav Riečan, DrSc. (Fakulta prírodných vied ŽU) |  |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) | prof. RNDr. Beloslav Riečan, DrSc. (Fakulta riadenia a informatiky ŽU) |  |
| doc. RNDr. Ferdinand Chovanec, CSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Gejza Wimmer, DrSc. (Fakulta prírodných vied UMB) |  |
| prof. RNDr. Július Korbaš, CSc. (geometria a topológia) |  |  |
| doc. RNDr. Karol Nemoga, CSc. (aplikovaná informatika) |  |  |
| doc. RNDr. Miroslav Repický, CSc. (informatika) |  |  |
| prof. RNDr. Beloslav Riečan, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |
| prof. RNDr. Beloslav Riečan, DrSc. (matematická analýza) |  |  |
| doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (informatika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (teória vyučovania informatiky) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (kvantitatívne metódy v ekonómii) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |

**3.6. Údaje o pedagogickej činnosti**   
Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 7 | 3 | 4 | 0 |
| **Celkový počet hodín v r. 2018** | 649 | 119 | 579 | 0 |

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

Tabuľka 3h Aktivity pracovníkov na VŠ

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

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

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

**M. Fečkan:** Mgr. Lukáš Polesňák (FMFI UK Bratislava) - 9.1.9 Aplikovaná matematika - interný doktorand

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

**G. Wimmer:**

 Mgr. Petra Širůčková (PřF MU Brno) - 11-06-9 Pravdepodobnosť a matematická štatistika - interný doktorand

 Mgr. Pavla Krajíčková rod. Dokoupilová (PřF MU Brno) - 11-06-9 Pravdepodobnosť a matematická štatistika - externý doktorand

 Mgr. Samuel Hudec (FPV UMB Banská Bystrica) - 9.1.11 Pravdepodobnosť a matematická štatistika - interný doktrorand

**4. Medzinárodná vedecká spolupráca**

**4.1. Medzinárodné vedecké podujatia**

**4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
The 18th Central European Conference on Cryptology, Smolenice, 46 účastníkov, 06.06.-08.06.2018

10th International Workshop on Non-Classical Models of Automata and Applications (NCMA), Košice, 32 účastníkov, 21.08.-22.08.2018

32th International Summer Conference on Real Functions Theory, Stará Lesná, 40 účastníkov, 02.09.-07.09.2018

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
21st International Conference on Descriptional Complexity of Formal Systems (DCFS 2019)/21. medzinárodna konferencia Popisná zložitosť formálnych systémov (DCFS 2019), Košice, 17.07.-19.07.2019, (Galina Jirásková, 055/ 622 82 91, jiraskov@saske.sk)

24th International Conference on Implementation and Application of Automata (CIAA 2019)/24. medzinárodná konferencia Implementácia a aplikácia automatov (CIAA 2019), Košice, 22.07.-25.07.2019, (Galina Jirásková, 055/ 622 82 91, jiraskov@saske.sk)

Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský/Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský, Košice, 09.09.-13.09.2019, (Peter Eliaš, 055/ 234 2202, [elias@saske.sk](mailto:elias@saske.sk), Miroslav Repický, 055 / 622 8291, [repicky@saske.sk](mailto:repicky@saske.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** |
| Borsík Ján | 0 | 0 | 1 |
| Hospodár Michal | 0 | 1 | 0 |
| Jirásková Galina | 3 | 0 | 1 |
| Krajňáková Ivana | 0 | 1 | 0 |
| Mlynárčik Peter | 0 | 1 | 0 |
| Nedela Roman | 0 | 0 | 2 |
| Nemoga Karol | 0 | 0 | 1 |
| Novotný Branislav | 0 | 1 | 0 |
| Okša Gabriel | 1 | 0 | 0 |
| Palmovský Matúš | 0 | 1 | 0 |
| Vajteršic Marian | 1 | 0 | 0 |
| **Spolu** | 5 | 5 | 5 |

**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.

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)

doc. RNDr. Roman Frič, DrSc.

International Quantum Structures Association (funkcia: člen)

RNDr. Alžbeta Michalíková, PhD.

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

IFSTART - Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics (funkcia: koordinátor pracovnej skupiny za Slovenskú republiku)

doc. RNDr. Karol Nemoga, CSc.

IACR International Association for Cryptology (funkcia: člen)

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Bernoulli Society (funkcia: člen)

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

Matematische Hamburg 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** |
| Vajteršic Marian | The Research Foundation-Flanders (FWO) | 1 |

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

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

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.*

**5. Vedná politika**

Vedná politika Matematického ústavu SAV sa v r. 2018 sústreďovala na plnenie úloh vyplývajúcich z vedeckých grantov. Všetci vedeckí a odborní pracovníci sú riešiteľmi grantových úloh VEGA, spolu 12 grantov, kde je ústav hlavným riešiteľom a 3 granty, kde sa ústav zmluvne podieľa na riešení. Okrem toho sa v r. 2018 na ústave riešilo 5 grantových úloh v rámci APVV, z toho v dvoch projektoch je ústav hlavným riešiteľom. Pracovníci okrem riešenia projektov na domácej úrovni sa sústreďujú aj na riešenie úloh so zahraničnými pracoviskami v 1 grante v rámci ERA.NET. Okrem toho, jedna pracovníčka, Mgr. A. Zemánková, PhD. má pauzu z dôvodu materskej dovolenky v Programe Štipendium SAV. Mgr. N. Dilná, PhD. po návrate z rodičovskej dovolenky ďalej čerpá grant v rámci Schwarzovho fondu.

Dr. B. Novotný získal grant v rámci projektu ERACOSYSMED so začiatkom riešenia v r. 2018 na 36 mesiacov.

V r. 2018 obhájila doktorskú dizertačnú prácu Dr. A. Jenčová a je doktorka matematických vied.

Výsledky výskumu sa snažíme uverejňovať v špičkových matematických časopisoch. Mnohí pracovníci spolupracujú so zahraničnými partnermi v rámci formálnych grantov ako aj na neformálnej, ale aktívnej spoluúčasti. Bohužiaľ, čas v matematických časopisoch od zaslania cez prijatie až po uverejnenie trvá nezriedka aj dva-tri roky, a okrem toho špičkové matematické časopisy v mnohých matematických odboroch nie sú CC-časopisy, hoci počet takýchto časopisov sa zvyšuje.

V našej práci pretavíme aj odporúčania akreditačného panelu na ďalšie zvýšenie postavenia Matematického ústavu SAV v európskom matematickom priestore. Budeme vychádzať z plánu rozvoja ústavu na najbližšie roky.

V r. 2017 bol prijatý zákon o verejných výskumných inštitúciách, na základe ktorého prejde Matematický ústav SAV od 1.7.2018 z rozpočtovej formy hospodárenia na formu hospodárenia v.v.i. To znamenalo prípravu množstva nových dokumentov a orgánov zabezpečujúcich hladký prechod na v.v.i. a zdarný začiatok v novej forme hospodárenia. Bohužiaľ, Ministerstvo školstva nakoniec netransformovalo ani jeden ústav SAV na v.v.i., a v septembri 2018 všetky ústavy sa vrátili do pôvodnej formy hospodárenia, v akej boli pred 1.7.2018. V súčasnej dobe ostávame rozpočtovou organizáciou a celá SAV čaká na ďalšie kroky zákonodarcov ohľadom SAV.

Budúcnosť Matematického ústavu závisí aj od kvality a kvantity doktorandov. Bohužiaľ, finančné zabezpečenie doktorandov nie je optimálne a nová legislatíva ohľadom štipendií pravdepodobne znížila záujem o doktorandské štúdium, čo sa v posledné roky aj ukazuje. Toto je, žiaľ, spoločný problém všetkých ústavov SAV ako aj vysokých škôl, hoci od nového roku 2018 došlo k menšiemu zvýšeniu štipendií. Navyše nie je dostatočne vysoká kvalita absolventov vysokých škôl, ktorí preto radšej volia doktorandské štúdium na svojej alma mater, ktoré je často ľahké, lebo je to už tretí stupeň vysokoškolského štúdia, ako náročné štúdium na ústavoch SAV, kde štúdium je viac vedecky orientované. Z týchto dôvodov ako aj turbulencií okolo transformácie SAV sme v r. 2018 neprijali ani jedného nového doktoranda.

Bolo by preto žiadúce, aby sa mohli prijímať do interného doktorandského štúdia aj kvalitní záujemcovia mimo EÚ, napr. z krajín bývalého Sovietskeho zväzu, kde je vysoká úroveň matematiky na vysokých školách. V r. 2013 sme zaviedli platenú prax pre študentov matematiky vyšších ročníkov, keď na ústave pod vedením renomovaných odborníkov stážisti riešia zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

V r. 2018 bol prijatý Zákon o zabezpečovaní kvality vysokoškolského vzdelávania č. 269/2018 Z. z., podľa ktorého všetky práva nevysokoškolských inštitúcií podieľať sa na uskutočňovaní doktorandského študijného programu pre príslušný študijný odbor zanikajú 1. novembra 2018. Zmluvy medzi vysokými školami a externými vzdelávacími inštitúciami, ktoré upravujú podieľanie sa na uskutočňovaní študijných programov tretieho stupňa, zostávajú zachované. Okrem toho, od 1.9.2018 sa nebudú osobitne udeľovať akreditácie pre nevysokoškolské inštitúcie na spolupodieľanie sa na uskutočňovaní doktorandských študijných programov. Pre Matematický ústav SAV to znamená, že pokračujeme v doktorandskom štúdiu v študijnom odbore *aplikovaná matematika* v spolupráci s FMFI UK, v budúcnosti sa nemusíme akreditovať a odpadá aj úloha garanta doktorandského štúdia na MÚ SAV a teda aj nutnosť jeho schvaľovania v akreditačnej komisii, ktorá tiež zaniká.

Matematický ústav SAV má dlhodobú spoluprácu s praxou v oblasti optimalizácie prepravy plynu cez tranzitné sústavy. Dlhodobo spolupracuje s ttc, s.r.o (bývalá CSE-Controls) v oblasti zahraničných plynovodných sietí s dôrazom na zisťovanie a lokalizáciu únikov plynu. Pracovníci Matematického ústavu SAV dlhodobo spolupracujú v problematike IT bezpečnosti s Ministerstvom obrany SR a Národným bezpečnostným úradom.

Pracovníci ústavu so všetkými pobočkami v Bratislave, Košiciach a B. Bystrici sa veľmi aktívne zúčastňujú aj pedagogického pôsobenia na vysokých školách. Ústav je zapojený aj do projektu popularizácie vedy na základných školách, ktorý garantuje SAV. V r. 2008 sme obnovili Inštitút matematiky a informatiky, spoločné pracovisko MÚ SAV a UMB v Banskej Bystrici. Z dôvodu vypovedania zmluvy zo strany UMB Banská Bystrica, tento inštitút od roku 2016 funguje ako detašované pracovisko MÚ SAV v Banskej Bystrici, pod názvom Inštitút matematiky a informatiky MÚ SAV, Banská Bystrica.

**6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4**

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 1990

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 1999

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 2001

**Zameranie:** pedagogika, veda a výskum

**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:** Pedagogická fakulta TVU

**Druh spolupráce (spoločné pracovisko alebo iné):** veda a výskum

**Začiatok spolupráce:** 2016

**Zameranie:** veda a výskum

**Zhodnotenie:** Spoločný grant VEGA 2/0006/16.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 2000

**Zameranie:** pedagogika, veda a výskum

**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:** Stavebná fakulta STU

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogická činnosť

**Začiatok spolupráce:** 2011

**Zameranie:** numerická analýza, algoritmy

**Zhodnotenie:** pedagogická činnosť

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

**Druh spolupráce (spoločné pracovisko alebo iné):** APVV grant

**Začiatok spolupráce:** 2017

**Zameranie:** veda a výskum

**Zhodnotenie:** Ústav automatizácie, merania a aplikovanej informatiky, SjF STU, Bratislava - spoločná grantová úloha APVV.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogika, veda a výskum

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

**Názov univerzity/vysokej školy a fakulty:** Fakulta prírodných a humanitných vieda, Prešovská univerzita, Prešov, Slovensko

**Druh spolupráce (spoločné pracovisko alebo iné):** pedagogický proces

**Začiatok spolupráce:** 2015

**Zameranie:** pedagogický proces

**Zhodnotenie:** výuka

**6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu**

**Zadávateľ, odberateľ, zmluvný partner:** MO SR

**Názov aplikácie/objekt výskumu:** Problémy ochrany informácií pre štátnu sféru SR

**Začiatok spolupráce:** 2013

**Stručný opis aplikácie/výsledku:** K. Nemoga spolupracuje s MO SR na riešení problémov ochrany informácií pre štátnu sféru v SR.

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):** Rozpracované boli metódy ochrany informácií. Finančný prínos pre organizáciu 0 EUR.

**6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe**   
 **7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4**

**7.1. Spoločné pracoviská s aplikačnou sférou**

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

Názov kontraktu: Vývoj, počítačová implementácia a nasadenie v praxi algoritmov na odhaľovanie únikov plynu z potrubí

Partner(i): ttc, s.r.o., Nitra

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2004

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): trvá

Objem získaných prostriedkov v bežnom roku (€): 0

Stručný opis výstupu/výsledku:

Zhodnotenie:

**7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe**

Slovenský metrologický ústav: spolupráca na APVV grante.   
 **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** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. | Člen pracovnej skupiny pre matematiku Akreditačnej komisie vlády SR | člen |
| doc. RNDr. Karol Nemoga, CSc. | zbor expertov – ISEG, NATO | člen |

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

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

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

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

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

**9. 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 | 13 | tlač | 1 | TV | 0 |
| rozhlas | 0 | internet | 19 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 0 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9b Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| The 18th Central European Conference on Cryptology | medzinárodná | Smolenice | 06.06.-08.06.2018 | 46 |
| 10th International Workshop on Non-Classical Models of Automata and Applications (NCMA) | medzinárodná | Košice | 21.08.-22.08.2018 | 32 |
| 32th International Summer Conference on Real Functions Theory | medzinárodná | Stará Lesná | 02.09.-07.09.2018 | 40 |

**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** |
| Čunderlíková Katarína | 0 | 0 | 1 |
| **Spolu** | 0 | 0 | 1 |

**9.5. Členstvo v redakčných radách časopisov**

doc. RNDr. Ján Borsík, CSc.

Mathematica Slovaca (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: editor)

RNDr. Katarína Čunderlíková, PhD.

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)

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)

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. Roman Frič, DrSc.

Scientific Issues of Jan Dlugosz University in Czestochowa, ser. Mathematics (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

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)

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

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)

Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

doc. PaedDr. Martin Papčo, PhD.

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

doc. RNDr. Miroslav Ploščica, CSc.

Algebra Universalis (funkcia: redaktor)

Mathematica Bohemica (funkcia: redaktor)

Mathematica Slovaca (funkcia: redaktor)

doc. RNDr. Sylvia Pulmannová, DrSc.

Algebra Universalis (funkcia: člen)

International Journal of Theoretical Physics (funkcia: člen)

Mathematica Slovaca (funkcia: vedúci redaktor)

Tatra Mountains Mathematical Publications (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Czechoslovak Mathematical Journal (funkcia: člen)

Mathematica Slovaca (funkcia: člen)

Obzory matematiky, fyziky, informatiky (funkcia: člen)

Pokroky matematiky, fyziky a astronómie (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: hlavný redaktor)

Tvorba (funkcia: predseda o.z. Spoločnosť pre Tvorbu)

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)

RNDr. Imrich Vrťo, DrSc.

Journal of Applied Mathematics, Statistics and Informatics (funkcia: člen redakčnej rady)

prof. RNDr. Gejza Wimmer, DrSc.

Ekonomika a informácia (funkcia: člen )

Glottometrics (funkcia: člen)

Mathematica Slovaca (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

**9.6. Činnosť v domácich vedeckých spoločnostiach**

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (funkcia: člen)

doc. RNDr. Ján Borsík, CSc.

Jednota slovenských matematikov a fyzikov (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)

doc. RNDr. Roman Frič, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen )

Slovenská matematická spoločnosť (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

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)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Eva Plávalová, PhD.

Slovenská astronomická spoločnosť pri Slovenskej akadémii vied (funkcia: člen terminologickej komisie)

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

JSMF, pobočka Banská Bystrica (funkcia: predseda)

Učená spoločnosť SAV (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)

RNDr. Imrich Vrťo, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská genealogická a heraldická spoločnosť (funkcia: člen)

Slovenská informatická spoločnosť (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

P-SAPV (funkcia: člen výboru)

**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** | | **26 804** |
| z toho | knihy a zviazané periodiká | 26 804 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | - |
| Rukopisy, vzácne tlače | - |
| Počet titulov dochádzajúcich periodík | | 77 |
| z toho zahraničné periodiká | | 67 |
| Ročný prírastok knižničných jednotiek | | 122 |
| v tom | kúpou | 32 |
| darom | - |
| 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)** | | **82** |
| v tom z r. 1 | prezenčné výpožičky | 38 |
| absenčné výpožičky | 44 |
| v tom z r. 1 | odborná literatúra pre dospelých | 79 |
| výpožičky periodík | 3 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 10 |

**10.3. Používatelia**

Tabuľka 10c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 50 |

**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 € | 2 862,52,- |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2018 bol zabezpečený voľný prístup do matematickej databázy Zentralblatt MATH (FIZ Karlsruhe GmbH) ako súčasť práce Slovenskej jednotky redakcie, ktorú zabezpečuje Matematický ústav SAV.

**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 vo vedeckých kolégiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- VK SAV pre matematiku, fyziku a informatiku (člen)

doc. RNDr. Roman Frič, DrSc.

- VK SAV pre matematiku, fyziku a informatiku (člen)

doc. RNDr. Ľubica Holá, DrSc.

- VK SAV pre matematiku, fyziku a informatiku (predseda)

**11.4. Členstvo v komisiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)

- Komisia SAV pre ekonomické otázky (člen)

- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)

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

- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

**11.5. Členstvo v orgánoch VEGA**

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)

prof. RNDr. Július Korbaš, CSc.

- 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 RO SAV**

Tabuľka 12a Výdavky RO SAV (v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **V ý d a v k y** | **Skutočnosť k 31.12.2018 spolu** | **v tom:** | | | |
| **zo ŠR** | **z toho:** | **z mimorozp. zdrojov** | **z toho:** |
| **ŠF EÚ vr. spolufinan.zo ŠR** | **ŠF EÚ vr. spolufinan.zo ŠR** |
| **Výdavky spolu** | 1 126 259,96 | 1 031 901,36 |  | 94 358,60 |  |
| **Bežné výdavky** |  |  |  |  |  |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 639 640,04 | 625 330,04 |  | 14 310,00 |  |
| poistné a príspevok do poisťovní (620) | 224 082,02 | 218 599,76 |  | 5 482,26 |  |
| tovary a služby (630) | 213 464,80 | 138 961,63 |  | 74 503,17 |  |
| z toho: časopisy | 27 153,00 | 27 153,00 |  |  |  |
| VEGA projekty | 70 035,00 | 70 035,00 |  |  |  |
| MVTS projekty | 11 667,00 | 11 667,00 |  |  |  |
| CE |  |  |  |  |  |
| vedecká výchova | 2 640,00 | 2 640,00 |  |  |  |
| bežné transfery (640) | 49 009,23 | 49 009,23 |  |  |  |
| z toho: štipendiá | 45 013,00 | 45 013,00 |  |  |  |
| transfery partnerom projektov | 6 062,00 | 6 062,00 |  |  |  |
| **Kapitálové výdavky** |  |  |  |  |  |
| **v tom:** |  |  |  |  |  |
| obstarávanie kapitálových aktív |  |  |  |  |  |
| kapitálové transfery |  |  |  |  |  |
| z toho: transfery partnerom projektov |  |  |  |  |  |

**12.2. Príjmy RO SAV**

Tabuľka 12b Príjmy RO SAV (v €)

|  |  |  |  |
| --- | --- | --- | --- |
| **P r í j m y** | **Skutočnosť k 31.12.2018 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 113 801,01 | 2 907,71 | 110 893,30 |
| **Nedaňové príjmy** |  |  |  |
| **v tom:** |  |  |  |
| príjmy z prenájmu |  |  |  |
| príjmy z predaja výrobkov a služieb | 104,00 | 104,00 |  |
| iné | 2 803,71 | 2 803,71 |  |
| **Granty a transfery (mimo zdroja 111)** |  |  |  |
| **v tom:** |  |  |  |
| **tuzemské** |  |  |  |
| **z toho: APVV** | 85 833,00 |  | 85 833,00 |
| **iné** | 25 060,30 |  | 25 060,30 |
| zahraničné |  |  |  |
| z toho: projekty rámcového programu EÚ |  |  |  |
| iné |  |  |  |

**13. Nadácie a fondy pri organizácii SAV**   
   
 **14. 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 štatistika a v sept. 2018 prebehla úspešne obhajoba doktorskej dizertačnej práce Mgr. A. Jenčovej, PhD.

Matematický ústav SAV 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 v spolupráci so spoločnosťou Versita, teraz Versita De Gruyter. 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. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Počet zaslaných príspevkov sa v roku 2009 viac ako dva aj pol znásobil vzhľadom k r. 2007, a činil 284 príspevkov oproti 211 v r. 2008, v r. 2010 bolo 334 príspevkov a v r. 2011 to bolo 509 príspevkov, v r. 2013 vyše 500 príspevkov, v r. 2014 vyše 540 príspevkov, v r. 2015 a 2016 vyše 500 príspevkov. Preto sme aj v r. 2012 museli výrazne zvýšiť počet editorov. Vyše 75 % prác je zamietnutých. V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2016)=0,314, päťročný impakt faktor 0,462 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,34 (Scimago Journal Ranking) a je v 3. kvartile. Počet zaslaných článkov v r. 2018 bol okolo 550.

Aj keď distribúcia časopisu prostredníctvom vydavateľstva Springer-Verlag spôsobila redukciu výmeny časopisu (vydavateľstvo Springer-Verlag bol výhradný distribútor v období 2008-2015), 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, hlavne však súbory prác venované jednému okruhu problémov a zborníky prác z medzinárodných konferencií. Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. Doteraz vyšlo 71 zväzkov. 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 0,36 a je v 3. kvartile.

Ústav získava (predajom, resp. výmenou za tento časopis) časť svojich informačných zdrojov. Adresa je <http://tatra.mat.savba.sk>. Časopis je od roku 2009 distribuovaný 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 2018 vyšiel 13. 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>.

Ústav je sídlom slovenskej časti redakcie významného svetového referatívneho časopisu Zentralblatt MATH. Redakčne pripravuje abstrakty dohodnutých periodík ako sú Mathematica Slovaca, Tatra Mountains Mathematical Publications, Acta Mathematica Universitatis Comenianae, Uniform Distribution Theory. Zapájame sa tak do celoeurópskej spolupráce a získava prístup do významnej databázy matematických poznatkov ZentralBlatt MATH.

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.

**15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2018**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**Nemoga Karol**

Čestná plaketa Jura Hronca za zásluhy v matematických vedách

*Oceňovateľ: Predsedníctvo SAV, Bratislava*

**15.1.2. Iné domáce ocenenia**

**Fečkan Michal**

Vedec roka 2017

*Oceňovateľ: Centrum vedecko-technických informácií SR, Slovenská akadémia vied a Zväz slovenských vedeckotechnických spoločností*

**15.2. Medzinárodné ocenenia** **16. 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 byt označené číslom z centrálnej evidencie.

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

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

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

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

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

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

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

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

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

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

**Sadzobník úhrad za sprístupnenie informácií**

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

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| --- | --- |
| 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 /

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

V roku 2018 došlo ku rastu celkových výdavkov Matematického ústavu SAV o 7,58% oproti 0,2% v predchádzajúcom roku. V rozpočtových výdavkoch došlo ku nárastu o 4,9 %. V oblasti miezd sme zaznamenali rast o 7,26%, ktorý bol daný valorizáciou, dobrým hodnotením ústavu pri prerozdeľovaní 5 percent v rámci 1. oddelenia vied (najlepšie z celej SAV), získaním jednej štipendistky Schwarzovho fondu a mimorozpočtovými mzdovými prostriedkami z APVV.

V tovaroch a službách sme zaznamenali nárast o 13,7 % (oproti poklesu 18 % v minulom roku) spôsobený vyššími prostriedkami získanými v APVV. V APVV sme zaznamenali nárast získaných prostriedkov o 66,7 %. V projektoch VEGA sme zaznamenali pokles o 2.2 %, ktorý bol spôsobený znížením kapacity riešiteľov.

Celkove možno z finančného hľadiska hodnotiť rok 2018 ako nie neúspešný s nárastom prostriedkov o cca 7,5 %.

Rovnako ako v predošlom roku je treba spomenúť stabilizačnú dohodu SAV, ktorá stabilizovala rozpočet SAV aj v roku 2018.

Bohužiaľ, jej pripravené obnovenie začiatkom leta 2018 bolo zo strany Ministerstva školstva zrušené krátko pred podpisom. Nedokončená a následne zrušená transformácia ústavov SAV tiež zo strany Ministerstva školstva nepriniesla pokoj do života ústavov. Veľmi veľa energie, času a nádejí v príprave dokumentov na transformáciu sa vyplytvalo nadarmo. V najbližšom období ústavy potrebujú pokoj na vedeckú prácu. Treba zabezpečiť, aby SAV sa nestala obeťou pripravovaných legislatívnych zmien v parlamente a na Ministerstve školstva.

Pozitívne hodnotíme pokračovanie projektov APVV. V roku 2018 sme riešili 5 projektov APVV, z toho v dvoch sme boli hlavní riešitelia.

Dôležité je:

 Zabezpečiť stabilné a zvyšujúce sa financovanie projektov APVV.

 Zlepšiť hodnotenie projektov.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám vďaka projektu NISPEZ CVTI (Centrum vedecko-technických informácií) a činnosti Ústrednej knižnice SAV počas celého roku 2018. Zabezpečenie prístupu v ďalšom období a špeciálne po roku 2020 je jedna z prioritných úloh pre SAV, VŠ a Ministerstvo školstva, vedy, výskumu a športu SR. Matematický ústav SAV zabezpečil prístup do databázy Zentralblatt MATH, Nemecko. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2018 neobnovili.

Stále považujeme za potrebné zabezpečiť pre SR úložisko vedeckých informácií. Táto úloha je veľmi vážna a urgentná.

Dôležitou úlohou je príprava riešenia programu Open Science EÚ, ktorý sa má definitívne uplatňovať od roku 2020.

Matematický ústav venuje veľkú pozornosť popularizácii matematiky a matematických výsledkov. Popularizačná aktivita ústavu sa v posledných rokoch zvyšuje, čo vidieť na mnohých popularizačných vystúpeniach v tlačových médiách ako aj na obrazovkách televízií alebo v rozhlase a to nielen v rámci Týždňa vedy. Pozitívne hodnotíme aj siedmy ročník Dňa otvorených dverí na MÚ SAV, ktorý sa konal na ústave v Bratislave, v Košiciach. Tu treba vyzdvihnúť záslužnú činnosť RNDr. E. Haluškovej, CSc., neúnavnej organizátorke záujmovej činnosti v oblasti matematiky na základných školách.

Ústav je zapojený aj do projektu popularizácie vedy na základných školách, ktorý garantuje SAV.

**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 0401

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

**Prílohy**   
   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2018**

**Zoznam zamestnancov podľa štruktúry** (nadväzne na údaje v Tabuľke 1a)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **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=org-user&user_no=2372) | 100 | 1.00 |
| 2. | [doc. RNDr. Roman Frič, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5683) | 100 | 1.00 |
| 3. | [doc. RNDr. Ľubica Holá, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2378) | 100 | 1.00 |
| 4. | [prof. RNDr. Juraj Hromkovič, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5689) | 100 | 0.00 |
| 5. | [RNDr. Stanislav Jakubec, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2379) | 50 | 0.75 |
| 6. | [prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5699) | 45 | 0.45 |
| 7. | [doc. RNDr. Sylvia Pulmannová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2386) | 100 | 1.00 |
| 8. | [doc. RNDr. Oto Strauch, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2389) | 100 | 1.00 |
| 9. | [prof. RNDr. Marian Vajteršic, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5725) | 100 | 0.00 |
| 10. | [RNDr. Imrich Vrťo, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5729) | 50 | 0.50 |
| 11. | [prof. RNDr. Gejza Wimmer, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6723) | 40 | 0.40 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | [RNDr. Martin Kochol, PhD., DSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=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=org-user&user_no=5673) | 100 | 1.00 |
| 2. | [doc. RNDr. Ján Borsík, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5675) | 100 | 1.00 |
| 3. | [RNDr. Stefan Dobrev, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5681) | 100 | 1.00 |
| 4. | [prof. RNDr. Michal Fečkan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2373) | 25 | 0.25 |
| 5. | [doc. RNDr. Ján Haluška, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5687) | 100 | 1.00 |
| 6. | [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380) | 100 | 1.00 |
| 7. | [RNDr. Galina Jirásková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5691) | 100 | 1.00 |
| 8. | [prof. RNDr. Július Korbaš, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3819) | 3 | 0.03 |
| 9. | [doc. RNDr. Karol Nemoga, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369) | 100 | 1.00 |
| 10. | [doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5701) | 100 | 1.00 |
| 11. | [doc. RNDr. Milan Paštéka, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6691) | 3 | 0.03 |
| 12. | [doc. RNDr. Miroslav Ploščica, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5702) | 25 | 0.25 |
| 13. | [RNDr. Michal Pospíšil, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6622) | 20 | 0.20 |
| 14. | [doc. RNDr. Miroslav Repický, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5707) | 100 | 1.00 |
| 15. | [Mgr. Andrea Zemánková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5731) | 100 | 0.00 |
| **Vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Vladimír Baláž, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6707) | 1 | 0.01 |
| 2. | [doc. Mgr. Pavol Bokes, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11621) | 13 | 0.08 |
| 3. | [RNDr. Katarína Čunderlíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11192) | 3 | 0.02 |
| 4. | [RNDr. Vladimír Dančík, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6710) | 100 | 0.00 |
| 5. | [Mgr. Nataliya Dilna, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7075) | 100 | 0.33 |
| 6. | [RNDr. Peter Eliaš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5682) | 100 | 1.00 |
| 7. | [Mgr. Štefan Gyürki, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10596) | 5 | 0.05 |
| 8. | [doc. RNDr. Rudolf Hajossy, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6702) | 32 | 0.32 |
| 9. | [RNDr. Emília Halušková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5688) | 100 | 1.00 |
| 10. | [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) | 100 | 1.00 |
| 11. | [doc. RNDr. Ferdinand Chovanec, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6700) | 3 | 0.03 |
| 12. | [doc. RNDr. Mária Jurečková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6699) | 3 | 0.03 |
| 13. | [Mgr. Marek Košta, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11195) | 100 | 0.08 |
| 14. | [Mgr. Tibor Macko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5697) | 25 | 0.75 |
| 15. | [RNDr. Alžbeta Michalíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11193) | 3 | 0.02 |
| 16. | [Mgr. Peter Mlynárčik, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9397) | 3 | 0.01 |
| 17. | [Ing. Igor Mračka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7987) | 100 | 1.00 |
| 18. | [Mgr. Branislav Novotný, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5700) | 100 | 1.00 |
| 19. | [Mgr. Matúš Palmovský, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9398) | 3 | 0.01 |
| 20. | [doc. PaedDr. Martin Papčo, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8050) | 5 | 0.05 |
| 21. | [Mgr. Eva Plávalová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11194) | 3 | 0.01 |
| 22. | [RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5704) | 100 | 1.00 |
| 23. | [Mgr. Ladislav Stacho, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5714) | 100 | 0.00 |
| 24. | [Ondrej Šuch, PhD., M.Sc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5716) | 25 | 0.25 |
| 25. | [Mgr. Elena Vinceková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5727) | 100 | 1.00 |
| 26. | [RNDr. Tibor Žáčik, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2368) | 100 | 1.00 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [RNDr. Laura Husárová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5809) | 40 | 0.40 |
| 2. | [doc. Mgr. Ján Karabáš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5693) | 11 | 0.11 |
| 3. | [Mgr. Ján Kysel](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11616) | 100 | 1.00 |
| 4. | [RNDr. Alexandra Mojžišová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11198) | 100 | 0.83 |
| 5. | [Mgr. Katarína Pastorková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10167) | 100 | 1.00 |
| 6. | [Ing.arch. Terézia Sedláková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6653) | 59 | 0.59 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Jana Galbová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10283) | 60 | 0.60 |
| 2. | [Silvia Gavorová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5684) | 80 | 0.80 |
| 3. | [Ivana Geriaková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2423) | 100 | 1.00 |
| 4. | [Ivana Hudecová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7230) | 60 | 0.60 |
| 5. | [Mária Malaščuková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2388) | 72 | 0.72 |
| 6. | [Katarína Nagyová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6694) | 60 | 0.60 |
| 7. | [Eugénia Ondrušková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2374) | 100 | 1.00 |
| 8. | [Bc. Henrieta Paľová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6720) | 24 | 0.24 |
| 9. | [Ing. Daniel Solčiansky](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11197) | 60 | 0.48 |
| 10. | [Andrea Surová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6688) | 100 | 1.00 |
| 11. | [Katarína Štefančíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5719) | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Janka Badiarová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6709) | 33 | 0.33 |
| 2. | [Lucia Mišíková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6716) | 36 | 0.36 |
| 3. | [Blažena Puterová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7255) | 45 | 0.45 |
| 4. | [Beata Szabová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11196) | 100 | 0.25 |

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

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [prof. RNDr. Beloslav Riečan, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6722) | 13.8.2018 | 0.12 |
| 2. | [RNDr. Imrich Vrťo, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5729) | 31.12.2018 | 0.50 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [RNDr. Kvetoslava Dvořáková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=1039) | 31.7.2018 | 0.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Pavel Grebeči](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6703) | 28.2.2018 | 1.00 |
| 2. | [Judita Klimentová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6697) | 31.3.2018 | 0.15 |
| 3. | [Mária Malaščuková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2388) | 31.12.2018 | 0.72 |

**Zoznam doktorandov**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Dušana Babicová | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Mgr. Jean Rosemond Dora | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Ing. Michal Hospodár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Mgr. Ivana Krajňáková | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 5. | RNDr. Martin Plávala | 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** | | | |
| 1. | Mgr. Andrea Tinajová | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |

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

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

**Zoznam emeritných vedeckých zamestnancov**

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

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

**Medzinárodné projekty**

**Programy: ERANET**

**1.) Dátami vedené hľadanie liečiv pre hojenie rán** *(Data-Driven Drug Discovery For Wound Healing)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Branislav Novotný |
| **Trvanie projektu:** | 1.7.2018 / 30.6.2021 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Biodonostia Health Research Institute, Computational Biology and Systems Biomedicine Group |
| **Počet spoluriešiteľských inštitúcií:** | 7 - Rakúsko: 2, Nemecko: 1, Španielsko: 1, Veľká Británia: 2, Slovinsko: 1 |
| **Čerpané financie:** | -  Podpora medzinárodnej spolupráce z národných zdrojov: 10000 € |

*Dosiahnuté výsledky:*   
Výskumný tím sa oboznámil s výpočtovými platformami (predovšetkým R, Bioconductor, Python, NumPy a Pandas) a dátovo-vednými technikami (napr. hlavné komponenty, zhlukovanie) nevyhnutnými pre úspešnú analýzu veľkoškálových dát o génovej expresii. Ďalej, matematické metodológie boli úspešne aplikované v štúdii feedforwardnej regulácie génovej expresie skrz mRNA-microRNA interakciu [1].   
   
[1] P. Bokes, M. Hojcka, and A. Singh, Buffering gene expression noise by microrna based feedforward regulation, in Computational Methods in Systems Biology, 16th International Conference, CMSB 2018 (M. Ceska and D. Safránek, eds.), vol. 11095 of Lect. N. Bioinformat. , pp. 129-145, 2018.   
   
**Domáce projekty**

**Programy: VEGA**

**1.) Zovšeobecnenie spojitosti funkcií** *(Generalization of Continuity of Functions)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Borsík |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0050/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1763 € |

*Dosiahnuté výsledky:*   
Boli charakterizované body rovnomernej konvergencie pre kvázispojité funkcie.   
J. Borsík: Points of uniform convergence and quasicontinuity European Journal of Mathematics, DOI 10.1007/s40879-018-0303-4.   
   
**2.) Výpočty s neúplnou informáciou - algoritmy, modely, siete** *(Computations with Incomplete Information - Algorithms, Models, Networks)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stefan Dobrev |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0165/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 5511 € |

*Dosiahnuté výsledky:*   
Dosiahli sme nové výsledky pre nasledovný problém: Na jednotkovej kružnici sa nachádza k brán. Dva autonómne mobilné roboty sú umiestnené na túto kružnicu. Každý robot ma maximálnu rýchlosť 1; roboty komunikujú bezdrôtovo. Roboty majú k dispozícii mapu domény, vrátane brán, avšak nevedia, kde sa v rámci domény nachádzajú. Jediné čo vedia, je vzdialenosť medzi nimi. Cieľom evakuačného problému je nájsť algoritmus, ktorý minimalizuje najhorší možný čas potrebný na to, aby oba roboty opustili doménu bránami.   
   
Uvažujeme dve varianty tohto problému, v závislosti od toho či roboti majú kontrolu nad ich počiatočnou vzájomnou vzdialenosťou. Ak je ich počiatočná vzdialenosť časťou vstupu (čiže nemajú kontrolu), ukázali sme, že existujú jednoduché algoritmy na dosiahnutie optimálneho najhoršieho možného času evakuácie pre prípady keď: a) všetky roboty začínajú na rovnakom mieste, pre ľubovoľné rozmiestnenie výstupných brán; b) všetky brány sú rovnomerne rozmiestnené a roboty majú ľubovoľné štartovacie pozície. K ďalším výsledkom patria dolné a horné odhady pre prípad ľubovoľného rozmiestnenia brán a ľubovoľných štartovacích pozícií. Pre model, kde roboty si môžu vybrať vzájomnú vzdialenosť pri štarte (so znalosťou, ale bez kontroly vzájomných pozícií brán) sme navrhli prirodzenú triedu algoritmov parametrizovaných najväčšou vzdialenosťou medzi susednými bránami.   
   
   
**3.) Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov** *(Qualitative properties and bifurcations of differential equations and dynamical systems)*

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| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0153/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 8346 € |

*Dosiahnuté výsledky:*   
   
1. AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - SUSANTO, H. Gain-loss-driven travelling waves in PT-symmetric nonlinear metamaterials. In Wave Motion, 2018, vol. 76, p. 9-18. (1.723 - IF2017). (2018 - Current Contents). ISSN 0165-2125.   
2. AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - SUSANTO, H. Gain-loss-driven travelling waves in PT-symmetric nonlinear metamaterials. In Wave Motion, 2018, vol. 76, p. 9-18. (1.723 - IF2017). (2018 - Current Contents). ISSN 0165-2125.   
3. AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - VAKAKIS, Alexander F. Periodically forced nonlinear oscillatory acoustic vacuum. In Axioms, 2018, vol. 7, no. 4, art. no. 69, p. [1-13]. ISSN 2075-1680.   
4. AKHMET, Marat - FEČKAN, Michal - FEN, Mehmet Onur - KASHKYNBAYEV, Ardak. Perturbed Li-Yorke homoclinic chaos. In Electronic Journal of Qualitative Theory of Differential Equations, 2018, no. 75, p. 1-18. (0.881 - IF2017). (2018 - Current Contents). ISSN 1417-3875. Dostupné na internete: <https://www.math.u-szeged.hu/ejqtde/p6831.pdf>.   
5. DANCA, Marius-F. - FEČKAN, Michal. On numerical integration of discontinuous dynamical systems. In International Journal of Bifurcation and Chaos, 2017, vol. 27, no. 14, art. no. 1750218 [8] p. (1.329 - IF2016). (2017 - Current Contents). ISSN 0218-1274.   
6. DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Complex dynamics, hidden attractors and continuous approximation of a fractional-order hyperchaotic PWC system. In Nonlinear Dynamics, 2018, vol. 91, no. 4, p. 2523-2540. (4.339 - IF2017). (2018 - Current Contents). ISSN 0924-090X. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2Fs11071-017-4029-5.pdf>.   
7. DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Fractional-order PWC systems without zero Lyapunov exponents. In Nonlinear Dynamics, 2018, vol. 92, no. 3, p. 1061-1078. (4.339 - IF2017). (2018 - Current Contents). ISSN 0924-090X. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2Fs11071-018-4108-2.pdf>.   
8. DILNA, Nataliya - FEČKAN, Michal. The Stieltjes string model with external load. In Applied Mathematics and Computation, 2018, vol. 337, p. 350-359. (2.300 - IF2017). (2018 - Current Contents). ISSN 0096-3003.   
9. FEČKAN, Michal - MARYNETS, Kateryna. Approximation approach to periodic BVP for mixed fractional differential systems. In Journal of Computational and Applied Mathematics, 2018, vol. 339, p. 208-217. (1.632 - IF2017). (2018 - Current Contents). ISSN 0377-0427. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0377042717305290>.   
10. FEČKAN, Michal. Note on periodic solutions of fractional differential equations. In Mathematical Methods in the Applied Sciences, 2018, vol. 41, no. 13, p. 5065-5073. (1.180 - IF2017). (2018 - Current Contents). ISSN 0170-4214.   
11. FEČKAN, Michal - MARYNETS, Kateryna. Approximation approach to periodic BVP for fractional differential systems. In The European Physical Journal Special Topics, 2017, vol. 226, no. 16-18, p. 3681-3692. (1.862 - IF2016). (2017 - Current Contents). ISSN 1951-6355. Dostupné na internete: <https://link.springer.com/conten/pdf/10.1140%2Fepjst%2Fe2018-00017-9.pdf>.   
12. FEČKAN, Michal - POSPÍŠIL, Michal. On equations with generalized periodic right-hand side. In Ukrainian Mathematical Journal, 2018, vol. 70, no. 2, p. 288-318. (0.343 - IF2017). ISSN 0041-5995.   
13. GUPTA, Vidushi - DABAS, Jaydev - FEČKAN, Michal. Existence results of solutions for impulsive fractional differential equations. In Nonautonomous Dynamical Systems, 2018, vol. 5, no. 1, p. 35-51. ISSN 2353-0626. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/msds.2018.5.issue-1/msds-2018-0003/msds-2018-0003.pdf>.

14.KADKHODA, Nematollah - FEČKAN, Michal. Application of tan(phi(xi)/2)-expansion method to burgers and foam drainage equations. In Mathematica Slovaca, 2018, vol. 68, no. 5, p. 1057-1064. (0.314 - IF2017). (2018 - WOS, SCOPUS). ISSN 0139-9918.   
15. LIANG, Chengbin - WANG, JinRong - FEČKAN, Michal. A study on ILC for linear discrete systems with single delay. In Journal of Difference Equations and Applications, 2018, vol. 24, no. 3, p. 358-374. (0.625 - IF2017). (2018 - Current Contents). ISSN 1023-6198.   
16. LIU, Shengda - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Iterative learning control with pulse compensation for fractional differential systems. In Mathematica Slovaca, 2018, vol. 68, no. 3, p. 563-574. (0.314 - IF2017). (2018 - WOS, SCOPUS). ISSN 0139-9918.   
17. LUO, Dahui - WANG, JinRong - FEČKAN, Michal. Applying fractional calculus to analyze economic growth modelling. D. Luo, J.R. Wang, M. Fečkan. In Journal of Applied Mathematics, Statistics and Informatics, 2018, vol. 14, no. 1, p. 25-36. ISSN 1339-0015.   
18. REN, Lulu - WANG, JinRong - FEČKAN, Michal. Asymptotically periodic solutions for caputo type fractional evolution equations. In Fractional Calculus and Applied Analysis, 2018, vol. 21, no. 5, p. 1294-1312. (2.865 - IF2017). (2018 - Current Contents). ISSN 1311-0454.   
19. WANG, JinRong - FEČKAN, Michal - LIU, Shengda. Convergence characteristics of PD-type and PDD-type iterative learning control for impulsive differential systems with unknown initial states. In Journal of Vibration and Control, 2018, vol. 24, no. 16, p. 3726-3743. (2.197 - IF2017). (2018 - Current Contents). ISSN 1077-5463. Dostupné na internete: <http://journals.sagepub.com/doi/pdf/10.1177/1077546317710159>.   
20. T. Žáčik, I. Mračka, R. Hajossy, M. Hyčko: Reinforcement Learning in Gas Transport Control. In: PSIG 2018, May 15–18, Deer Valley, Utah, USA.   
   
**4.) Topológie na funkcionálnych priestoroch a hyperpriestoroch** *(Topologies on Functional Spaces and Hyperspaces)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0006/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 4409 € |

*Dosiahnuté výsledky:*   
1. Ľ. Holá, D. Holý, Quasicontinuous functions and compactness, Mediterranean J. Math. 14 (2017), 737-744.   
2. Ľ. Holá, Ljubiša D.R. Kočinac, Uniform boundedness in function spaces, Topology and its Applications 241, (2018), 242-251.   
3. Ľ. Holá, Ljubiša D.R. Kočinac, Boundedness properties in function spaces, Quaestiones Mathematicae 41 (2018), 829-838.   
4. Ľ. Holá, D. Holý, Metrizability of the space of quasicontinuous functions, Topology and its Applications 246 (2018), 137-143.

**5.) Teória čísel a jej aplikácie** *(Number Theory and Its Applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stanislav Jakubec |
| **Trvanie projektu:** | 1.1.2018 / 31.12.2021 |
| **Evidenčné číslo projektu:** | VEGA 2/0109/18 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 7959 € |

*Dosiahnuté výsledky:*   
Bola navrhnutá metóda generovania binárnych cirkulantných matíc s predpísaným počtom jednotiek pre potreby McEliecovho kryptosystému.   
   
Bola dokončená monografia O. Strauch: Distribution of Sequences – A Theory, ktorá bude publikovaná vo vydavateľstve Academia, Praha v roku 2019.   
   
FABŠIČ, Tomáš - GROŠEK, Otokar - NEMOGA, Karol - ZAJAC, Pavol. On generating invertible circulant binary matrices with a prescribed number of ones. In Cryptography and Communications, 2018, vol. 10, no. 1, p. 159-175. (1.213 - IF2017). (2018 - Current Contents). ISSN 1936-2447. Dostupné na internete:   
<https://link.springer.com/content/pdf/10.1007%2Fs12095-017-0239-4.pdf>.   
   
   
**6.) Algebrické, pravdepodobnostné a kategoriálne aspekty modelovania kvantových štruktúr** *(Algebraic. Probabilistic and Categorial Aspects of Modelling Quantum Structures)*

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| **Zodpovedný riešiteľ:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0069/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 13254 € |

*Dosiahnuté výsledky:*   
1. A. Dvurečenskij, O. Zahiri, Morphisms on EMV-algebra and their applications. Soft Computing 22 (2018), 7519-7537 https://doi.org/10.1007/s00500-018-3039-7. CC   
2. M. Botur, A. Dvurečenskij, Kites and residuated lattices, Algebra Universalis 79 (2018), Art. 83. 26 p. DOI: 10.1007/s00012-018-0564-2. CC   
3. R.A. Borzooei, A. Dvurečenskij, A.H. Sharafi, Generalized EMV-effect algebras, Inter. J. Theor. Phys. 57 (2018), 2267-2279. https://doi.org/10.1007/s10773-018-3. CC   
4. A. Dvurečenskij, Quantum observables and effect algebras, Inter. J. Theor. Phys. 57 (2018), 637--651. DOI: 10.1007/s10773-017-3594-1. CC   
5. A. Dvurečenskij, Riesz space-valued states on pseudo MV-algebras, J. Appl. Logic - IfCoLog Journal of Logics and their Applications 5 (2018), 1723-1764. SCI   
6. A. Dvurečenskij, Prof. RNDr. Beloslav Riečan, DrSc., Dr.h.c., \*Nov. 10, 1936 - Aug. 13, 2018, Math. Slovaca 68 (2018), 951-956. SCI   
7. A. Jenčová: Rényi Relative Entropies and Noncommutative Lp-Spaces, Annales Henri Poincare, 19 (2018), 2513-2542. CC   
8. A. Jenčová: Incompatible measurements in a class of general probabilistic theories, Physical Review A, 98 (2018), art. nr. 12133. CC   
9. S. Pulmannová, Corrignedum to Banach synaptic algebras, Inter. J. Theore. Phys. 57 (2018), 3772-3775. CC   
10. D.J. Foulis, S. Pulmannová, Banach synaptic algebras, Inter. J. Theor. Phys. 57 (2018),1103-1119. https://doi.org/10.1007/s10773-017-3641-y. CC   
   
   
**7.) Popisná zložitosť formálnych systémov** *(Descriptional Complexity of Formal Systems)*

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| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0084/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 5385 € |

*Dosiahnuté výsledky:*   
   
Články:   
   
1. Michal Hospodár, Galina Jirásková, Peter Mlynárčik, A Survey on Fooling Sets as Effective Tools for Lower Bounds on Nondeterministic Complexity. In: Hans-Joachim Böckenhauer, Dennis Komm, Walter Unger: Adventures Between Lower Bounds and Higher Altitudes - Essays Dedicated to Juraj Hromkovič on the Occasion of His 60th Birthday. Lecture Notes in Computer Science, vol. 11011, pp. 17-32. Springer 2018.   
   
2. Jozef Jirásek Jr., Galina Jirásková, Juraj Šebej, Operations on Unambiguous Finite Automata. International Journal of Foundations of Computer Science 29(5) (2018), 861-876.   
   
Práce v konferenčných zborníkoch:   
   
1. Michal Hospodár, Galina Jirásková, Ivana Krajňáková, Operations on Boolean and Alternating Finite Automata. In: Fedor V. Fomin, Vladimir V. Podolskii (eds.): Computer Science - Theory and Applications - 13th International Computer Science Symposium in Russia, CSR 2018, Moscow, Russia, June 6-10, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10846, pp. 181-193. Springer, 2018.   
   
2. Galina Jirásková, Alexander Okhotin, State Complexity of Unambiguous Operations on Deterministic Finite Automata. In: Stavros Konstantinidis, Giovanni Pighizzini (eds.): Descriptional Complexity of Formal Systems - 20th IFIP WG 1.02 International Conference, DCFS 2018, Halifax, NS, Canada, July 25-27, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10952, pp. 188-199. Springer, 2018.

3. Jozef Jirásek, Galina Jirásková, The Exact Complexity of Star-Complement-Star. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 223-235. Springer, 2018.   
   
4. Michal Hospodár, Markus Holzer, The Ranges of Accepting State Complexities of Languages Resulting from Some Operations. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 198-210. Springer, 2018.   
   
5. Galina Jirásková, Alexander Okhotin, Towards Exact State Complexity Bounds for Input-Driven Pushdown Automata. In: Mizuho Hoshi, Shinnosuke Seki (eds.): Developments in Language Theory - 22nd International Conference, DLT 2018, Tokyo, Japan, September 10-14, 2018, Proceedings. Lecture Notes in Computer Science, vol. 11088, pp. 441-452. Springer, 2018.   
   
6. Markus Holzer, Michal Hospodár, Complexity of languages resulting from the cut operation in the unary case. In: Rudolf Freund, Michal Hospodár,   
Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 25-34. Institut für Computersprachen TU Wien, 2018.   
   
7. Michal Hospodár, Matúš Palmovský, Nondeterministic complexity of power and positive closure on subclasses of convex languages. In: Rudolf Freund,   
Michal Hospodár, Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 35-44. Institut für Computersprachen TU Wien, 2018.   
   
   
**8.) Výskum mikroštruktúry, elektrických a optických vlastností nanotexturovaných polovodičových rozhraní** *(Research of Microstructures, Electrical and Optical Properties of Nanotextured Semiconductor Interfaces)*

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| **Zodpovedný riešiteľ:** | Mária Jurečková |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 1/0676/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | EF ŽU Žilina |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Slovensko: 3 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
  
Jurečka, S., Jurečková, M.: Statistical and fractal analysis of random height function, Communications, Volume 19, Number 3, 2017, ISSN 1335-4205, p. 57-61.

**9.) Chromatické problémy v kombinatorike** *(Chromatic Problems in Combinatorics)*

|  |  |
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| **Zodpovedný riešiteľ:** | Martin Kochol |
| **Trvanie projektu:** | 1.1.2018 / 31.12.2021 |
| **Evidenčné číslo projektu:** | VEGA 2/0024/18 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1323 € |

*Dosiahnuté výsledky:*

KOCHOL, M.: Three colorability characterized by shrinking of locally connected subgraphs into triangles, Information Processing Letters, vol. 135 (2018), str. 33–35, (ADCA).   
   
**10.) Globálne a lokálne vlastnosti priestorov a zobrazení** *(Global and Local Properties of Spaces and Mappings)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Tibor Macko |
| **Trvanie projektu:** | 1.1.2017 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 1/0101/17 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FMFI UK, Bratislava |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 1978 € |

*Dosiahnuté výsledky:*

-Boli dotiahnuté detaily v štúdiu akcie grupy homotopických ekvivalencií hAut(X) na štruktúrnej množine variety S(X), v jednoducho súvislom prípade, v nejednoducho súvislom prípade, aj v hladkej verzii.   
   
-Študovali sme štruktúrnu množinu S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Nadviazali sme na predchádzajúce práce a ukázali sme zovšeobecnenie formuly C.T.C. Walla pre rho-invariant šošovkového priestoru na prípad, keď máme súčin LxD šošovkového priestoru a disku. Túto formulku sme potom použili pri našich výpočtoch. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny S(LxS) súčinu LxS šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.   
   
-V nadväznosti na prípravné práce z minulého roku, sme pri chirugických prekážkach v párnych aj v nepárnych dimenziách dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov, v rámci pripravovanej monografie o základoch teórie chirurgií. Týmito sme odstránili niektoré chyby, ktoré sa tradične objavovali v mnohých prácach v tejto oblasti.   
   
Články:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, Homology Homotopy Appl. 20, No. 2, 11-40 (2018)   
2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, Geometriae Dedicata, published online on 10 July 2018, https://doi.org/10.1007/s10711-018-0370-1   
   
Preprinty:   
   
3. Balko, Macko, Niepel, Rusin: Higher simple structure sets of lens spaces with the fundamental group of order 2^K, arXiv:1808.05373 [math.AT]   
   
4. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress, current version available online on http://www.mat.savba.sk/~macko/surgery-book.html   
   
**11.) Algoritmy na grafoch a algebraických štruktúrach** *(Algorithms on graphs and on algebraich structures)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.1.2017 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 1/0487/17 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fakulta prírodných vied UMB Banská Bystrica |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 2875 € |

*Dosiahnuté výsledky:*   
   
1. WANG, Naer - NEDELA, Roman - HU, Kan. Regular dessins uniquely determined by a nilpotent automorphism group. In Journal of group theory, 2018, vol. 21, no. 3, p. 397-415. (0.581 - IF2017). (2018 - Current Contents). ISSN 1433-5883.

2. FIALA, Jiří - KLAVÍK, Pavel - KRATOCHVÍL, Jan - NEDELA, Roman. 3-connected reduction for regular graph covers. In European Journal of Combinatorics, 2018, vol. 73, p. 170-210. (0.928 - IF2017). ISSN 0195-6698. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0195669818301094?via%3Dihub>.

**12.) Paralelné blokové algoritmy pre kanonické dekompozície tenzorov** *(Parallel Block Algorithms for Canonical Decomposition of Matrices)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Gabriel Okša |
| **Trvanie projektu:** | 1.1.2017 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0004/17 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 5996 € |

*Dosiahnuté výsledky:*

G. Okša, Y. Yamamoto, M. Bečka, M. Vajteršic: Asymptotic quadratic convergence of the parallel block-Jacobi EVD algorithm with dynamic ordering for Hermitian matrices, BIT Numer Math, 58 (2018), pp. 1099-1123, doi: https://doi.org/10.1007/s10543-018-0711-3.

**13.) Vybrané problémy univerzálnej algebry a teórie zväzov** *(Selected Problems in Universal Algebra and Lattice Theory)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Miroslav Ploščica |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0044/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3968 € |

*Dosiahnuté výsledky:*

1. Popísali sme kongruenčne FD-maximálne algebry, ktorých priesekovo ireducibilné kongruencie tvoria usporiadanú množinu dĺžky 2. Doteraz bol taký popis známy pre dĺžku 1.   
   
2. Študovali sme rôzne generujúce množiny agregačného klonu a taktiež klonu idempotentných agregačných funkcií na konečných zväzoch. Jedným z hlavných výsledkov je redukcia doposiaľ známeho minimálneho počtu generátorov príslušných klonov.   
   
3. Pokračovali sme v skúmaní EKP vlastnosti pre monounárne algebry. Našli sme viacero zaujímavých vlastností: cykly týchto algebier sú špeciálne a tvoria tiež algebru s EKP; po odstránení komponentu ostáva vlastnosť EKP zachovaná; počet pevných bodov v algebre sa rovná počtu komponentov.   
   
**14.) Teoreticko-množinové metódy v topológii a teórii reálnych funkcií** *(Set-Theoretic Methods in Topology and Real Functions Theory)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Miroslav Repický |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 1/0097/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | PF UPJŠ Košice |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 3956 € |

*Dosiahnuté výsledky:*   
   
Výsledky o kardinálnych invariantoch topologických priestorov nerozlišujúcich ideálové konvergencie postupností spojitých reálnych funkcií.

**15.) Viactriedna klasifikácia rečových segmentov použitím párových klasifikátorov** *(Multiclass Speech Segments Classification Using Parallel Classifiers)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ondrej Šuch |
| **Trvanie projektu:** | 1.1.2018 / 31.12.2021 |
| **Evidenčné číslo projektu:** | VEGA 2/0144/18 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 2210 € |

*Dosiahnuté výsledky:*   
   
HRABOVSKÝ, Jakub - KONTŠEK, Martin - SEGEČ, Pavel - ŠUCH, Ondrej. Influence of positive additive noise on classification performance of convolutional neural networks. In DISA 2018 - 1st World Symposium on Digital Intelligence for Systems and Machines. - Košice, Slovakia : IEEE, 2018, p. 175-181. ISBN 978-1-5386-5102-5.

ŠUCH, Ondrej - BARREDA, Santiago - KLIMO, Martin - TARÁBEK, Peter - TINAJOVÁ, Andrea. Comparing classification methods in isolated vowel classification. In DISA 2018 - 1st World Symposium on Digital Intelligence for Systems and Machines. - Košice, Slovakia : IEEE, 2018, p. 331-335. ISBN 978-1-5386-5102-5.

**16.) Nové štatistické metódy pre špeciálne triedy rozdelení pravdepodobnosti a ich aplikácie** *(New statistical methods for special classes of probability distributions and their applications)*

|  |  |
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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.1.2018 / 31.12.2020 |
| **Evidenčné číslo projektu:** | 2/0054/18 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 7164 € |

*Dosiahnuté výsledky:*

WIMMER, Gejza - WITKOVSKÝ, Viktor. Model of polynomial calibration. In Journal of Physics: Conference Series, 2018, vol. 1065, no. 7, art. no. 072011. ISSN 1742-6588.   
   
WIMMER, Gejza - WITKOVSKÝ, Viktor. Revisited S4 from EA-4/02 (Calibration of a gauge block of nominal length 50 mm). In Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018) : Book of Abstracts. - St. Petersburg, Russia : Mendeleyev Institute for Metrology, 2018, p. 152-153.   
   
RÁBOŇOVÁ, Petra - WIMMER, Gejza. Confidence region for calibration function coefficients. In Measurement Science Review, 2018, vol. 18, no. 6, p. 227-235. (1.345 - IF2017). (2018 - Current Contents). ISSN 1335-8871. Dostupné na internete: <http://www.measurement.sk/2018/msr-2018-0031.pdf.>   
**Programy: APVV**

**17.) Pravdepodobnostné, algebrické a kvantovo-mechanické aspekty neurčitosti** *(Probabilistic, algebraic a quantum-mechanical aspect of uncertainty)*

|  |  |
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| **Zodpovedný riešiteľ:** | Anatolij Dvurečenskij |
| **Trvanie projektu:** | 1.7.2017 / 30.6.2021 |
| **Evidenčné číslo projektu:** | APVV-16-0073 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 36278 € |

*Dosiahnuté výsledky:*   
   
1. A. Dvurečenskij, O. Zahiri, Morphisms on EMV-algebra and their applications. Soft Computing 22 (2018), 7519-7537 https://doi.org/10.1007/s00500-018-3039-7. CC   
2. M. Botur, A. Dvurečenskij, Kites and residuated lattices, Algebra Universalis 79 (2018), Art. 83. 26 p. DOI: 10.1007/s00012-018-0564-2. CC   
3. R.A. Borzooei, A. Dvurečenskij, A.H. Sharafi, Generalized EMV-effect algebras, Inter. J. Theor. Phys. 57 (2018), 2267-2279. https://doi.org/10.1007/s10773-018-3. CC   
4. A. Dvurečenskij, Quantum observables and effect algebras, Inter. J. Theor. Phys. 57 (2018), 637--651. DOI: 10.1007/s10773-017-3594-1. CC   
5. A. Dvurečenskij, Riesz space-valued states on pseudo MV-algebras, J. Appl. Logic - IfCoLog Journal of Logics and their Applications 5 (2018), 1723-1764. SCI   
6. A. Dvurečenskij, Prof. RNDr. Beloslav Riečan, DrSc., Dr.h.c., \*Nov. 10, 1936 - Aug. 13, 2018, Math. Slovaca 68 (2018), 951-956. SCI   
7. Jenča, G., Effect algebras as presheaves on finite Boolean algebras, Order 35 (2018), 525-540. CC   
8. A. Jenčová: Rényi Relative Entropies and Noncommutative Lp-Spaces, Annales Henri Poincare, 19 (2018), 2513-2542. CC   
9. A. Jenčová: Incompatible measurements in a class of general probabilistic theories, Physical Review A, 98 (2018), art. nr. 12133. CC   
10. R. Halaš, Z. Kurač, R. Mesiar, J. Pócs: Binary generating set of the clone of idempotent aggregation functions on bounded lattices, Information Sciences 462 (2018), 367-373. CC   
11. O. Hutník, J. Pócs: On \* - Associated Comonotone Functions, KYBERNETIKA, Vol. 54 (2018) , No. 2, 268-278. CC   
12. S. Pulmannová, Corrignedum to Banach synaptic algebras, Inter. J. Theore. Phys. 57 (2018), 3772-3775. CC   
13. D.J. Foulis, S. Pulmannová, Banach synaptic algebras, Inter. J. Theor. Phys. 57 (2018),1103-1119. https://doi.org/10.1007/s10773-017-3641-y. CC

**18.) Efektívne algoritmy, automaty a dátové štruktúry** *(Effective algorithms, automata and data structures)*

|  |  |
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| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.7.2016 / 30.6.2020 |
| **Evidenčné číslo projektu:** | APVV-15-0091 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prírodovedecká fakulta, Univerzita Pavla Jozefa Šafárika v Košiciach |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 14407 € |

*Dosiahnuté výsledky:*   
   
Články:   
   
1. Michal Hospodár, Galina Jirásková, Peter Mlynárčik, A Survey on Fooling Sets as Effective Tools for Lower Bounds on Nondeterministic Complexity. In: Hans-Joachim Böckenhauer, Dennis Komm, Walter Unger: Adventures Between Lower Bounds and Higher Altitudes - Essays Dedicated to Juraj Hromkovič on the Occasion of His 60th Birthday. Lecture Notes in Computer Science, vol. 11011, pp. 17-32. Springer 2018.   
   
2. Jozef Jirásek Jr., Galina Jirásková, Juraj Šebej, Operations on Unambiguous Finite Automata. International Journal of Foundations of Computer Science 29(5) (2018), 861-876.   
   
Práce v konferenčných zborníkoch:   
   
1. Michal Hospodár, Galina Jirásková, Ivana Krajňáková, Operations on Boolean and Alternating Finite Automata. In: Fedor V. Fomin, Vladimir V. Podolskii (eds.): Computer Science - Theory and Applications - 13th International Computer Science Symposium in Russia, CSR 2018, Moscow, Russia, June 6-10, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10846, pp. 181-193. Springer, 2018.   
   
2. Galina Jirásková, Alexander Okhotin, State Complexity of Unambiguous Operations on Deterministic Finite Automata. In: Stavros Konstantinidis, Giovanni Pighizzini (eds.): Descriptional Complexity of Formal Systems - 20th IFIP WG 1.02 International Conference, DCFS 2018, Halifax, NS, Canada, July 25-27, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10952, pp. 188-199. Springer, 2018.   
   
3. Jozef Jirásek, Galina Jirásková, The Exact Complexity of Star-Complement-Star. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 223-235. Springer, 2018.   
   
4. Michal Hospodár, Markus Holzer, The Ranges of Accepting State Complexities of Languages Resulting from Some Operations. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 198-210. Springer, 2018.

5. Galina Jirásková, Alexander Okhotin, Towards Exact State Complexity Bounds for Input-Driven Pushdown Automata. In: Mizuho Hoshi, Shinnosuke Seki (eds.): Developments in Language Theory - 22nd International Conference, DLT 2018, Tokyo, Japan, September 10-14, 2018, Proceedings. Lecture Notes in Computer Science, vol. 11088, pp. 441-452. Springer, 2018.   
   
6. Markus Holzer, Michal Hospodár, Complexity of languages resulting from the cut operation in the unary case. In: Rudolf Freund, Michal Hospodár,   
Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 25-34. Institut für Computersprachen TU Wien, 2018.   
   
7. Michal Hospodár, Matúš Palmovský, Nondeterministic complexity of power and positive closure on subclasses of convex languages. In: Rudolf Freund,   
Michal Hospodár, Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 35-44. Institut für Computersprachen TU Wien, 2018.

**19.) Topológia a geometria variet** *(Topology and Geometry of Manifolds)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Tibor Macko |
| **Trvanie projektu:** | 1.7.2017 / 30.6.2021 |
| **Evidenčné číslo projektu:** | APVV-16-0053 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | FMFI UK, Bratislava |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | APVV: 3210 € |

*Dosiahnuté výsledky:*

-Boli dotiahnuté detaily v štúdiu akcie grupy homotopických ekvivalencií hAut(X) na štruktúrnej množine variety S(X), v jednoducho súvislom prípade, v nejednoducho súvislom prípade, aj v hladkej verzii.   
   
-Študovali sme štruktúrnu množinu S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Nadviazali sme na predchádzajúce práce a ukázali sme zovšeobecnenie formuly C.T.C. Walla pre rho-invariant šošovkového priestoru na prípad, keď máme súčin LxD šošovkového priestoru a disku. Túto formulku sme potom použili pri našich výpočtoch. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny S(LxS) súčinu LxS šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.   
   
-V nadväznosti na prípravné práce z minulého roku, sme pri chirugických prekážkach v párnych aj v nepárnych dimenziách dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov, v rámci pripravovanej monografie o základoch teórie chirurgií. Týmito sme odstránili niektoré chyby, ktoré sa tradične objavovali v mnohých prácach v tejto oblasti.   
   
Články:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, Homology Homotopy Appl. 20, No. 2, 11-40 (2018)   
   
2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, Geometriae Dedicata, published online on 10 July 2018, https://doi.org/10.1007/s10711-018-0370-1   
   
Preprinty:   
   
3. Balko, Macko, Niepel, Rusin: Higher simple structure sets of lens spaces with the fundamental group of order 2^K, arXiv:1808.05373 [math.AT]   
   
4. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress, current version available online on http://www.mat.savba.sk/~macko/surgery-book.html   
   
**20.) Algebrické, topologické a kombinatorické metódy v štúdiu diskrétnych štruktúr** *(Algebraic, topological and combinatorial methods in the study of discrete structures)*

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| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.7.2016 / 30.6.2020 |
| **Evidenčné číslo projektu:** | APVV-15-0220 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fakulta matematiky, fyziky a informatiky, Univerzita Komenského, Bratislava |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | APVV: 10000 € |

*Dosiahnuté výsledky:*   
   
1. WANG, Naer - NEDELA, Roman - HU, Kan. Regular dessins uniquely determined by a nilpotent automorphism group. In Journal of group theory, 2018, vol. 21, no. 3, p. 397-415. (0.581 - IF2017). (2018 - Current Contents). ISSN 1433-5883.

2. FIALA, Jiří - KLAVÍK, Pavel - KRATOCHVÍL, Jan - NEDELA, Roman. 3-connected reduction for regular graph covers. In European Journal of Combinatorics, 2018, vol. 73, p. 170-210. (0.928 - IF2017). ISSN 0195-6698. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0195669818301094?via%3Dihub>.

**21.) Pokročilé štatistické a výpočtové metódy pre meranie a metrológiu** *(Advanced statistical and computational methods for measurement and metrology)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Viktor Witkovský |
| **Zodpovedný riešiteľ v organizácii SAV:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2016 / 30.6.2020 |
| **Evidenčné číslo projektu:** | APVV-15-0295 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 7500 € |

*Dosiahnuté výsledky:*

Konferenčný príspevok:   
   
ĎURIŠ, S.— ĎURIŠOVÁ, Z.— WIMMER, G.— ADAM, P.: Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material, XXII World Congress of the International Measurement Confederation (IMEKO), September 3 - 6, 2018, Institute of Measurement and Control, Waterfront Centre in Belfast, Belfast, UK.   
   
Publikácia:   
   
ĎURIŠ, S.— ĎURIŠOVÁ, Z.— WIMMER, G.— ADAM, P.: Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material, IOP Conf. Series: Journal of Physics: Conf. Series 1065 (2018) 082009, IOP Publishing, doi:10.1088/1742-6596/1065/8/082009.   
   
**Programy: ŠPVV**

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

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Karol Nemoga |
| **Trvanie projektu:** | 1.1.2018 / |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Slovenská národná výskumná platforma kvantových technológií QUTE |
| **Počet spoluriešiteľských inštitúcií:** | 6 - Slovensko: 6 |
| **Čerpané financie:** | kapitola MŠVVaŠ SR (MF/020487/2017-441): 5100 € |

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

**23.) 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 |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
T. Žáčik, I. Mračka, R. Hajossy, M. Hyčko: Reinforcement Learning in Gas Transport Control. In: PSIG 2018, May 15–18, Deer Valley, Utah, USA.   
***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

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| ABC01 | WITKOVSKÝ, Viktor - WIMMER, Gejza. Generalized polynomial comparative calibration: Parameter estimation and applications. In Advances in Measurements and Instrumentation : Reviews, Vol. 1. - International Frequency Sensor Association (IFSA) Publishing, 2018, p. 15-52. ISBN 978-84-09-07321-4. |

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

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| ADCA01 | ADAMS-FLOROU, Spiros - MACKO, Tibor. L-homology on ball complexes and product. In Homology, Homotopy and Applications, 2018, vol. 20, no. 2, p. 11-40. (0.711 - IF2017). (2018 - Current Contents). ISSN 1532-0073. Dostupné na internete: <http://eprints.gla.ac.uk/161145/1/161145.pdf>. |
| ADCA02 | AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - SUSANTO, H. Gain-loss-driven travelling waves in PT-symmetric nonlinear metamaterials. In Wave Motion, 2018, vol. 76, p. 9-18. (1.723 - IF2017). (2018 - Current Contents). ISSN 0165-2125. |
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| ADCA04 | BORZOOEI, R.A. - DVUREČENSKIJ, Anatolij - SHARAFI, A.H. Material implications in lattice effect algebras. In Information Sciences, 2018, vol. 433-434, p. 233-240. (4.305 - IF2017). (2018 - Current Contents). ISSN 0020-0255. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0020025517311702>. |
| ADCA05 | BORZOOEI, R.A. - DVUREČENSKIJ, Anatolij - SHARAFI, A.H. Generalized EMV-effect algebras. In International Journal of Theoretical Physics, 2018, vol. 57, no. 8, p. 2267-2279. (0.968 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0020-7748. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007/s10773-018-3750-2.pdf>. |
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| ADCA08 | CZYZOWICZ, Jurek - DOBREV, Stefan - GEORGIOU, Konstantinos - KRANAKIS, E. - MACQUARRIE, Fraser. Evacuating two robots from multiple unknown exits in a circle. In Theoretical Computer Science, 2018, vol. 709, p. 20-30. (0.772 - IF2017). (2018 - Current Contents). ISSN 0304-3975. Dostupné na internete: <https://www.sciencedirect.com/journal/theoretical-computer-science/vol/709/suppl/C>. |
| ADCA09 | DANCA, Marius-F. - FEČKAN, Michal. On numerical integration of discontinuous dynamical systems. In International Journal of Bifurcation and Chaos, 2017, vol. 27, no. 14, art. no. 1750218 [8] p. (1.329 - IF2016). (2017 - Current Contents). ISSN 0218-1274. |
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| ADCA22 | HALAŠ, Radomír - KURAČ, Zbyněk - MESIAR, Radko - PÓCS, Jozef. Binary generating set of the clone of idempotent aggregation functions on bounded lattices. In Information Sciences, 2018, vol. 462, p. 367-373. (4.305 - IF2017). (2018 - Current Contents). ISSN 0020-0255. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S002002551830478X>. |
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| ADCA25 | HUTNÍK, Ondrej - PÓCS, Jozef. On ⋆- associated comonotone functions. In Kybernetika, 2018, vol. 54, no. 2, p. 268-278. (0.632 - IF2017). (2018 - Current Contents). ISSN 0023-5954. Dostupné na internete: <https://www.kybernetika.cz/content/2018/2/268/paper.pdf>. |
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**ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných**

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|  |  |
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| ADEB01 | AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - VAKAKIS, Alexander F. Periodically forced nonlinear oscillatory acoustic vacuum. In Axioms, 2018, vol. 7, no. 4, art. no. 69, p. [1-13]. ISSN 2075-1680. |
| ADEB02 | ČUNDERLÍKOVÁ, Katarína. Upper and lower limits and m-almost everywhere convergence of intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2018, vol. 24, no. 4, p. 40-49. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/images/2/26/NIFS-24-4-040-049.pdf>. |
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**ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
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| ADMA01 | FEČKAN, Michal - POSPÍŠIL, Michal. On equations with generalized periodic right-hand side. In Ukrainian Mathematical Journal, 2018, vol. 70, no. 2, p. 288-318. (0.343 - IF2017). ISSN 0041-5995. |
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| ADMA03 | HALUŠKOVÁ, Emília. Monounary algebras with easy direct limits. In Miskolc Mathematical Notes, 2018, vol. 19, no. 1, p. 291-302. (0.585 - IF2017). ISSN 1787-2405. |
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**ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

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| ADMB01 | BARTKOVÁ, Renáta - ČUNDERLÍKOVÁ, Katarína. About Fisher-Tippett-Gnedenko theorem for intuitionistic fuzzy events. In Advances in Intelligent Systems and Computing : Advances in Fuzzy Logic and Technology 2017, 2018, vol. 641, p. 125-135. ISSN 2194-5357. |
| ADMB02 | BEČKA, Martin - OKŠA, Gabriel - VIDLIČKOVÁ, Eva. New preconditioning for the one-sided block-Jacobi SVD algorithm. In Lecture Notes in Computer Science : Parallel Processing and Applied Mathematics, 2018, vol. 10777, p. 590-599. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-78024-5.pdf>. |
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| ADMB05 | ĎURIŠ, S. - ĎURIŠOVÁ, Z. - WIMMER, Gejza - ADAM, P. Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material. In Journal of Physics: Conference Series, 2018, vol. 1065, art. no. 082009. ISSN 1742-6588. |
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| ADMB10 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Operations on Boolean and alternating finite automata. In Lecture Notes in Computer Science : Computer Science - Theory and Applications, 2018, vol. 10846, p. 181-193. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-90530-3\_16.pdf>. |
| ADMB11 | HOSPODÁR, Michal - HOLZER, Markus. The ranges of accepting state complexities of languages resulting from some operations. In Lecture Notes in Computer Science : Implementation and Application of Automata, 2018, vol. 10977, p. 198-210. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-94812-6\_17.pdf>. |
| ADMB12 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. A survey on fooling sets as effective tools for lower bounds on nondeterministic complexity. In Lecture Notes in Computer Science : Adventures Between Lower Bounds and Higher Altitudes, 2018, vol. 11011, p. 17-32. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-98355-4.pdf>. |
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Citácie:

*1. [1.1] MADRID, Nicolas. A sufficient condition to guarantee the existence of fuzzy stable models on residuated logic programming with constrains. In 2017 IEEE INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS (FUZZ-IEEE). ISSN 1098-7584, 2017., Registrované v: WOS*

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

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| AECA01 | DOBREV, Stefan - PLŽÍK, Milan. Improved spanners in networks with symmetric directional antennas. In Algorithms for Sensor Systems : 10th International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics. - Berlin : Springer, 2015, s. 103-121. ISBN 978-3-662-46017-7. ISSN 0302-9743.(International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distribute Robotics). |

Citácie:

*1. [1.1] ABAM, M. A. - BAHARIFARD, F. - BOROUNY, M. S. - ZARRABI-ZADEH, H. Fault-tolerant spanners in networks with symmetric directional antennas. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, 2017, vol. 704, p. 18-27., Registrované v: WOS*

*2. [1.1] ABAM, Mohammad Ali - BAHARIFARD, Fatemeh - BOROUNY, Mohammad Sadegh - ZARRABI-ZADEH, Hamid. Fault-Tolerant Spanners in Networks with Symmetric Directional Antennas. In WALCOM: ALGORITHMS AND COMPUTATION, WALCOM 2017. ISSN 0302-9743, 2017, vol. 10167, p. 266-278., Registrované v: WOS*

*3. [1.1] TRAN, Tien - AN, Min Kyung - HUYNH, Dung T. Establishing symmetric connectivity in directional wireless sensor networks equipped with 2 pi/3 antennas. In JOURNAL OF COMBINATORIAL OPTIMIZATION. ISSN 1382-6905, 2017, vol. 34, no. 4, p. 1029-1051., Registrované v: WOS*

**\*AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

|  |  |
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| AED01 | SAVIN, Alexander - WIMMER, Gejza - WITKOVSKÝ, Viktor. On Kenward-Roger confidence intervals for common mean in interlaboratory trials. In MEASUREMENT 2003 : 4th International Conference on Measurement. Editors I. Frollo, M. Tyšler, A. Plačková. - Bratislava, Slovakia : Institute of Measurement Science, SAS, c2003, p. 79-82. ISBN 80-967402-6-1.(MEASUREMENT 2003 : International Conference on Measurement). |

Citácie:

*1. [1.1] PARTLETT, C. - RILEY, R.D. Random effects meta-analysis: Coverage performance of 95% confidence and prediction intervals following REML estimation. In STATISTICS IN MEDICINE. ISSN 0277-6715, JAN 30 2017, vol. 36, no. 2, SI, p. 301-317., Registrované v: WOS*

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| AED02 | WIMMER, Gejza - ALTMANN, Gabriel. Two hypotheses on synonymy. In Lexicographica ´99 : zborník na počesť Kláry Buzássyovej. Zost. Slavomír Ondrejovič, Matej Považaj. - Bratislava : Veda, 2001, s. 218-225. ISBN 80-224-0604-X. |

Citácie:

*1. [1.1] CECH, Radek - MACUTEK, Jan - ZABOKRTSKY, Zdenek - HORAK, Ales. Polysemy and synonymy in syntactic dependency networks. In DIGITAL SCHOLARSHIP IN THE HUMANITIES. ISSN 2055-7671, 2017, vol. 32, no. 1, p. 36-49., Registrované v: WOS*

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

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

Citácie:

*1. [1.1] LI, L. - ZHANG, H. - FU, M. Linear quadratic regulation for discrete-time systems with multiplicative noise and multiple input delays. In OPTIMAL CONTROL APPLICATIONS & METHODS. ISSN 0143-2087, 2017, vol. 38, no. 3, p. 295-316., Registrované v: WOS*

*2. [1.1] NI, Yuan-Hua - YIU, Cedric Ka-Fai - ZHANG, Huanshui - ZHANG, Ji-Feng. Stochastic LQ Problem with Delayed Control. In PROCEEDINGS OF THE 36TH CHINESE CONTROL CONFERENCE (CCC 2017). ISSN 2161-2927, 2017, p. 1902-1906., Registrované v: WOS*

*3. [1.1] NI, Yuan-Hua - YIU, Ka-Fai Cedric - ZHANG, Huanshui - ZHANG, Ji-Feng. DELAYED OPTIMAL CONTROL OF STOCHASTIC LQ PROBLEM. In SIAM JOURNAL ON CONTROL AND OPTIMIZATION. ISSN 0363-0129, 2017, vol. 55, no. 5, p. 3370-3407., Registrované v: WOS*

*4. [1.1] WU, Shuang - SHU, Lan. Partially observed linear quadratic control problem with delay via backward separation method. In OPTIMAL CONTROL APPLICATIONS & METHODS. ISSN 0143-2087, 2017, vol. 38, no. 5, p. 814-828., Registrované v: WOS*

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| AEE02 | CLEMONS, P. A. - WILSON, J. A. - DANČÍK, Vladimír - MULLER, S. - CARRINSKI, H. A. - WAGNER, B. K. - KOEHLER, A. N. - SCHREIBER, S. L. Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. P. A. Clemons, J. A. Wilson, V. Dančík, S. Muller, H. A. Carrinski, B. K. Wagner, A. N. Koehler, S. L. Schreiber. In Proceedings of the National Academy of Sciences of the United States of America. - Washington : National Academy of Sciences, 2011, vol. 108, no. 17, p. 6817-6822. (9.771 - IF2010). (2011 - Current Contents). ISSN 0027-8424. |

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*1. [1.1] CAMPBELL, Michael G. - MERCIER, Joel - GENICOT, Christophe - GOUVERNEUR, Veronique - HOOKER, Jacob M. - RITTER, Tobias. Bridging the gaps in F-18 PET tracer development. In NATURE CHEMISTRY. ISSN 1755-4330, 2017, vol. 9, no. 1, p. 1-3., Registrované v: WOS*

*2. [1.1] OLGAC, Abdurrahman - ORHAN, Ilkay Erdogan - BANOGLU, Erden. The potential role of in silico approaches to identify novel bioactive molecules from natural resources. In FUTURE MEDICINAL CHEMISTRY. ISSN 1756-8919, 2017, vol. 9, no. 14, p. 1663-1684., Registrované v: WOS*

*3. [1.1] OLMEDO, Dionisio A. - GONZALEZ-MEDINA, Mariana - GUPTA, Mahabir P. - MEDINA-FRANCO, Jose L. Cheminformatic characterization of natural products from Panama. In MOLECULAR DIVERSITY. ISSN 1381-1991, 2017, vol. 21, no. 4, p. 779-789., Registrované v: WOS*

*4. [1.1] TEJEDOR, David - DELGADO-HERNANDEZ, Samuel - CARBALLO, Ruben M. - DAPUETO, Rosina - MENA-REJON, Gonzalo J. - GARCIA-TELLADO, Fernando. Diversifying Complexity by Domino Benzannulation of Polycyclic Natural Products. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 10, p. 5328-5336., Registrované v: WOS*

*5. [1.1] YOUNG, Damian W. Considerations Related to Small-molecule Screening Collections. In HIGH THROUGHPUT SCREENING METHODS: EVOLUTION AND REFINEMENT. ISSN 2055-1975, 2017, vol. 1, p. 16-36., Registrované v: WOS*

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| AEE03 | DVUREČENSKIJ, Anatolij. On partial addition in pseudo MV-algebras. In Proc. Fourth Inter. Symp. on Econ. Inform. - Bucharest : INFOREC Printing House, 1999, s. 952-960. |

Citácie:

*1. [1.1] GORAGHANI, S. Saidi - BORZOOEI, R. A. RESULTS ON PRIME IDEALS IN PMV-ALGEBRAS AND MV-MODULES. In ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS. ISSN 1126-8042, 2017, no. 37, p. 183-196., Registrované v: WOS*

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| AEE04 | 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. |

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*1. [1.1] DASSOW, Juergen. Descriptional Complexity and Operations Two Non-classical Cases. In DESCRIPTIONAL COMPLEXITY OF FORMAL SYSTEMS, DCFS 2017. ISSN 0302-9743, 2017, vol. 10316, p. 33-44., Registrované v: WOS*

**\*AFBA Publikované pozvané príspevky na medzinárodných vedeckých konferenciách poriadaných v SR**

|  |  |
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| AFBA01 | HALADA, Ladislav - WEISENPACHER, Peter - OKŠA, Gabriel - GLASA, Ján - BEČKA, Martin. Počítačová simulácia požiarov v rizikových priestoroch. In IX. medzinárodná konferencia FIRECO 2011 : Ochrana pred požiarmi. - Bratislava : Požiarnotechnický a expertízny ústav MV SR, 2011, p. 93-102. ISBN 978-80-89051-11-3. |

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*1. [3.1] RAINA, S. - MALHOTRA, V. Feasibility and spontaneity of jetfans for aircraft fire safety. In Journal of Aerospace Engineering & Technology (JoAET). 2017, vol. 6, no. 3, pp. 1-18.*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
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| AFC01 | BOSÁK, Juraj. Hamiltonian lines in cubic graphs. In Théorie des graphes (Proc. Symp. Rome 1966). - Dunod, Paris, 1967, s. 35-46. |

Citácie:

*1. [1.1] ALAHMADI, Adel N. - GLYNN, David G. Multiple Hamilton cycles in bipartite cubic graphs: An algebraic method. In FINITE FIELDS AND THEIR APPLICATIONS. ISSN 1071-5797, 2017, vol. 44, p. 18-21., Registrované v: WOS*

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| AFC02 | CIUNGU, L.C. - KELEMENOVA, J. - RIEČAN, Beloslav. A new point of view to the inclusion - Exclusion principle. In 2012 IEEE 6th International Conference Intelligent systems. - 2012, s. 142-144. ISBN 978-1-4673-2278-2. |

Citácie:

*1. [1.1] NAVARA, Mirko - NAVAROVA, Maria. Principles of inclusion and exclusion for interval-valued fuzzy sets and IF-sets. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2017, vol. 324, p. 60-73., Registrované v: WOS*

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| AFC03 | 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] DA SILVA, Samuel G. - DE PAIVA, Valeria C. V. Dialectical categories, cardinalities of the continuum and combinatorics of ideals. In LOGIC JOURNAL OF THE IGPL. ISSN 1367-0751, 2017, vol. 25, no. 4, p. 585-603., Registrované v: WOS*

*2. [1.1] HATHAWAY, Dan. Disjoint Borel functions. In ANNALS OF PURE AND APPLIED LOGIC. ISSN 0168-0072, 2017, vol. 168, no. 8, p. 1552-1563., Registrované v: WOS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

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

Citácie:

*1. [1.1] CAIRO, Massimo - RIZZI, Romeo. The Complexity of Simulation and Matrix Multiplication. In PROCEEDINGS OF THE TWENTY-EIGHTH ANNUAL ACM-SIAM SYMPOSIUM ON DISCRETE ALGORITHMS, 2017, p. 2203-2214., Registrované v: WOS*

*2. [1.1] GASIENIEC, Leszek - LEVCOPOULOS, Christos - LINGAS, Andrzej - PAGH, Rasmus - TOKUYAMA, Takeshi. Efficiently Correcting Matrix Products. In ALGORITHMICA. ISSN 0178-4617, 2017, vol. 79, no. 2, p. 428-443., Registrované v: WOS*

*3. [1.1] LINGAS, Andrzej - PERSSON, Mia - SLEDNEU, Dzmitry. Bounds for Semi-disjoint Bilinear Forms in a Unit-Cost Computational Model. In THEORY AND APPLICATIONS OF MODELS OF COMPUTATION (TAMC 2017). ISSN 0302-9743, 2017, vol. 10185, p. 411-423., Registrované v: WOS*

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

|  |  |
| --- | --- |
| GHG01 | GRENDÁR, Marián - JUDGE, G.G. Consistency of empirical likelihood and maximum A-posteriori probability under misspecification : CUDARE Working Papers [elektronický zdroj]. Berkeley, CA : University of California, 2008. Dostupné na internete: <http://escholarship.org/uc/item/4b78z47x>. |

Citácie:

*1. [3.1] GERDJIKOV, S. – SCHULZ, K.U. Corpus analysis without prior linguistic knowledge - unsupervised mining of phrases and subphrase structure. In arXiv:1602.05772 [cs.CL], 2016.*

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| GHG02 | HYČKO, Marek. Computations in OML [elektronický zdroj]. Bratislava, 2004. Názov z internetu. Dostupné na internete: <http://www.mat.savba.sk/~hycko/oml/>. |

Citácie:

*1. [1.1] GABRIELS, Jeannine J. M. - GAGOLA, Stephen M. - NAVARA, Mirko. Sasaki projections. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2017, vol. 77, no. 3, p. 305-320., Registrované v: WOS*

*2. [2.1] GABRIELS, Jeannine J. M. CONDITIONAL ASSOCIATIVITY IN ORTHOMODULAR LATTICES. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2017, vol. 67, no. 3, p. 573-584., Registrované v: WOS*

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| GHG03 | KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking: performance analysis and optimization : Technical Report 2016-02 [elektronický zdroj]. Salzburg : Universität Salzburg, 2016. 17 p. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/3\_Forschung/2016-02\_Kudo\_Yamamoto\_Becka\_Vajtersic.pdf>. |

Citácie:

*1. [1.1] PAL, Soumitra - PATHAK, Sudipta - RAJASEKARAN, Sanguthevar. On Speeding-up Parallel Jacobi Iterations for SVDs. In PROCEEDINGS OF 2016 IEEE 18TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS; IEEE 14TH INTERNATIONAL CONFERENCE ON SMART CITY; IEEE 2ND INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS), 2016, p. 9-16., Registrované v: WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Funkcie komplexnej premennej

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 2

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 3

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 4

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 26

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 48

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 8

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 48

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

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerická lineárna algebra

Počet hodín za semester: 39

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra matematiky a deskriptívnej geometrie Stavebnej fakulty

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě I

Počet hodín za semester: 26

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

Počet hodín za semester: 52

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Digitale Rechenanlagen

Počet hodín za semester: 30

Názov katedry a vysokej školy: Universitaet Salzburg, Austria, Fachbereich Computerwissenschaften

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Mnohorozmerné statistické metódy 2

Počet hodín za semester: 24

Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Ústav matematiky a statistiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 1

Počet hodín za semester: 24

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika (učitelia)

Počet hodín za semester: 24

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 2

Počet hodín za semester: 24

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistická a digitálna podpora výskumu

Počet hodín za semester: 24

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 1

Počet hodín za semester: 36

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 2

Počet hodín za semester: 36

Názov katedry a vysokej školy: Fakulta prírodných vied UMB, katedra matematiky

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 192

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 192

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

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: MATLAB I, II

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra matematiky a deskriptívnej geometrie Stavebnej fakulty

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerická lineárna algebra

Počet hodín za semester: 26

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra matematiky a deskriptívnej geometrie Stavebnej fakulty

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:

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 | 9 |
| Česko |  |  |  |  | Anatolij Dvurečenskij | 1 |
|  |  |  |  |  | Stanislav Jakubec | 2 |
|  |  |  |  |  | Tibor Macko | 4 |
|  |  |  |  |  | Roman Nedela | 4 |
|  |  |  |  |  | Karol Nemoga | 2 |
|  |  |  |  |  | Gabriel Okša | 2 |
| Čína |  |  |  |  | Roman Nedela | 11 |
| Fínsko |  |  |  |  | Galina Jirásková | 8 |
|  |  |  |  |  | Martin Plávala | 144 |
| Japonsko |  |  |  |  | Galina Jirásková | 13 |
|  |  |  |  |  | Roman Nedela | 8 |
| Kanada |  |  |  |  | Stefan Dobrev | 23 |
|  |  |  |  |  | Galina Jirásková | 15 |
|  |  |  |  |  | Martin Plávala | 15 |
| Malta |  |  |  |  | Karol Nemoga | 5 |
| Nemecko |  |  |  |  | Michal Hospodár | 31 |
|  |  |  |  |  | Galina Jirásková | 9 |
|  |  |  |  |  | Tibor Macko | 6 |
| Nórsko |  |  |  |  | Karol Nemoga | 5 |
| Rakúsko |  |  |  |  | Martin Bečka | 3 |
|  |  |  |  |  | Martin Kochol | 2 |
|  |  |  |  |  | Gabriel Okša | 3 |
| Rusko |  |  |  |  | Martin Plávala | 7 |
| Španielsko |  |  |  |  | Pavol Bokes | 5 |
|  |  |  |  |  | Branislav Novotný | 5 |
| Taliansko |  |  |  |  | Ľubica Holá | 9 |
|  |  |  |  |  | Anna Jenčová | 3 |
|  |  |  |  |  | Karol Nemoga | 5 |
|  |  |  |  |  | Michal Pospíšil | 6 |
| Veľká Británia |  |  |  |  | Dušana Babicová | 59 |
|  |  |  |  |  | Martin Plávala | 5 |
| **Počet vyslaní spolu** |  |  |  |  | **32** | **429** |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Česko |  |  |  |  | Miloslav Znojil, DrSc. | 2 |
|  |  |  |  |  | prof. RNDr. Alice Kelemenová, CSc. | 5 |
|  |  |  |  |  | prof. RNDr. Jan Hamhalter, CSc. | 1 |
|  |  |  |  |  | Prof. RNDr. Pavel Exner, DrSc. | 2 |
|  |  |  |  |  | Prof. RNDr. Pavel Pták, DrSc | 2 |
|  |  |  |  |  | prof. RNDr. Štefan Porubský, DrSc. | 5 |
| Grécko |  |  |  |  | Dr. Makrina Agaoglou | 230 |
| Maďarsko |  |  |  |  | Prof. Erzsébet Csuhaj-Varjú | 5 |
|  |  |  |  |  | Prof. Lajos Molnár, DSC. | 2 |
| Poľsko |  |  |  |  | Dr. Maksymilian Mika | 5 |
|  |  |  |  |  | Dr. Marcin Łazarz, PhD. | 61 |
|  |  |  |  |  | Dr. Marek Szykuła | 5 |
|  |  |  |  |  | Prof. Karol Zyczkowki | 2 |
| Rakúsko |  |  |  |  | prof. Dr. Karl Svozil | 1 |
|  |  |  |  |  | Prof. Helmut Länger | 1 |
| Taliansko |  |  |  |  | Dr. Raffaella Carbone | 4 |
|  |  |  |  |  | Prof. Antonio Di Nola | 1 |
| Uzbekistan |  |  |  |  | Dr. Gayrat Urazboev | 7 |
| **Počet prijatí spolu** |  |  |  |  | **18** | **341** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Bulharsko | 22nd ICIFS | Katarína Čunderlíková | 5 |
|  |  | Alžbeta Michalíková | 6 |
|  |  | Beloslav Riečan | 6 |
| Česko | AGT 2018 | Roman Nedela | 7 |
|  | CLX Seminar | Roman Nedela | 4 |
|  | ISCAMI 2018 | Dušana Babicová | 4 |
|  | PLATOSpec | Eva Plávalová | 2 |
|  | ROBUST 2018 | Gejza Wimmer | 6 |
|  | SSAOS 2018 | Emília Halušková | 6 |
|  |  | Miroslav Ploščica | 8 |
| Čína | 3rdGATG | Roman Nedela | 4 |
|  | IWSGN 2018 | Roman Nedela | 10 |
| Grécko | 2018 ICTA | Branislav Novotný | 9 |
| Japonsko | DLT 2018 | Michal Hospodár | 6 |
|  |  | Galina Jirásková | 6 |
|  |  | Matúš Palmovský | 6 |
|  | DLT Sat | Michal Hospodár | 6 |
|  |  | Galina Jirásková | 6 |
|  |  | Matúš Palmovský | 6 |
|  | TGT30 | Roman Nedela | 3 |
| Kanada | DCFS 2018 | Galina Jirásková | 5 |
|  | FQM 2018 | Martin Plávala | 10 |
| Maďarsko | QIMP2018 | Anna Jenčová | 5 |
|  |  | Martin Plávala | 5 |
| Poľsko | 18th Wk2018 | Anna Jenčová | 8 |
|  | 50 SMP | Martin Plávala | 6 |
|  | AALCS XXII | Emília Halušková | 4 |
|  | MISSI 2018 | Jozef Pócs | 3 |
|  | QSRT 2018 | Anna Jenčová | 5 |
|  | WIFSGN 2018 | Katarína Čunderlíková | 4 |
|  |  | Alžbeta Michalíková | 4 |
| Rakúsko | ATMCS8 | Tibor Macko | 5 |
|  | IAU 2018 | Eva Plávalová | 4 |
| Rusko | CSR 2018 | Michal Hospodár | 8 |
|  |  | Galina Jirásková | 8 |
|  | IQSA 2018 | Martin Plávala | 7 |
|  | MSCSMQ 2018 | Gejza Wimmer | 6 |
| Slovinsko | GGM 2018 | Roman Nedela | 15 |
| Španielsko | ISAS 2018 | Jozef Pócs | 6 |
|  | MDAI 2018 | Jozef Pócs | 10 |
| Švajčiarsko | PMAA18 | Martin Bečka | 3 |
|  |  | Gabriel Okša | 3 |
| Taliansko | AsubL (Take 6) | Anatolij Dvurečenskij | 6 |
|  | CR50 | Karol Nemoga | 5 |
|  | IEEE RTSI 2018 | Marian Vajteršic | 6 |
|  | TDQM 2018 | Anna Jenčová | 7 |
| USA | DISC 2018 | Stefan Dobrev | 6 |
|  | PSIG 2018 | Marek Hyčko | 7 |
|  |  | Igor Mračka | 7 |
| Veľká Británia | BIID6 | Anna Jenčová | 7 |
|  | ECM 2018 | Eva Plávalová | 4 |
|  | IMEKO 2018 | Gejza Wimmer | 6 |
|  | QR 2018 | Martin Plávala | 5 |
| **Spolu** | **41** | **53** | **316** |

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

Skratky použité v tabuľke C:

18th Wk2018 - 18th Workshop: Noncommutative Probability, Operator Algebras, Random Matrices and Related Topics, with Applications

2018 ICTA - 2018 International Conference on Topology and its Applications

22nd ICIFS - 22nd International Conference on Intuitionistic Fuzzy Sets '2018

3rdGATG - The Third International Conference On Group Actions and Transitive Graphs

50 SMP - 50th Symposium on Mathematical Physics

AALCS XXII - Application of Algebra in Logic and Computer Science XXII

AGT 2018 - Conference in Algebraic Graph Theory: Symmetry vs Regularity

AsubL (Take 6) - Algebra & Substructural Logics - Take 6

ATMCS8 - Algebraic Topology: Methods, Computation and Science

BIID6 - Beyond I.I.D. in information theory

CLX Seminar - CLX Seminar

CR50 - 50th Anniversary Conference of the Club of Rome

CSR 2018 - The 13th International Computer Science Symposium in Russia

DCFS 2018 - Descriptional Complexity of Formal Systems 2018

DISC 2018 - International Symposium on Distributed Computing 2018

DLT 2018 - Developments in Language Theory 2018

DLT Sat - International DLT Satellite Workshop in Kyoto

ECM 2018 - Exoplanet Community Meeting 2018

FQM 2018 - Foundations of Quantum Mechanics 2018

GGM 2018 - Graphs, Groups and More 2018

IAU 2018 - General Assembly of the International Astronomical Union

IEEE RTSI 2018 - 4th International Forum Research and Technologies for Society and Industry

IMEKO 2018 - XXII World Congress of the International Measurement Confederation

IQSA 2018 - 14th Biennial IQSA Conference Quantum Structures 2018

ISAS 2018 - International Symposium on Aggregation and Structures 2018

ISCAMI 2018 - International Student Conference on Applied Mathematics and Informatics

IWSGN 2018 - International Workshop on Symmetries of Graph and Networks 2018

MDAI 2018 - The 15th International Conference on Modeling Decisions for Artificial Intelligence

MISSI 2018 - 11th edition of the International Conference on Multimedia and Network Information Systems

MSCSMQ 2018 - Mathematics, Statistics and Computation to Support Measurement Quality 2018

PLATOSpec - PLATOSpec workshop

PMAA18 - 10th International Workshop on Parallel Matrix Algorithms and Applications

PSIG 2018 - Pipeline System Interest Group Conference 2018

QIMP2018 - Quantum Information Theory and Mathematical Physics 2018

QR 2018 - Quantum Roundabout 2018

QSRT 2018 - Quantum Statistics and Related Topics

ROBUST 2018 - 20. zimní škola JČ(S)MF

SSAOS 2018 - 56th Summer School on General Algebra and Ordered Sets 2018

TDQM 2018 - Workshop Three Days in Quantum Mechanics

TGT30 - 30th Workshop on Topological Graph Theory

WIFSGN 2018 - The 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets to the memory of Professor Beloslav Riečan (1936-2018) ***Príloha F***

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | A. Dvurečenskij, Zomrel prof. RNDr. Pavol Brunovský, DrSc. | Aktuality SAV, https://www.sav.sk/index.php?doc=services-news&source\_no=20&news\_no=8004 | 15.12.2018 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Nepresná hodnota je lepšia ako žiadna | Deň otvorených dverí MÚ, SAV, Bratislava | 7.11.2018 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | ESŠ Liptovský Mikuláš | 29.1.2018 |
| RNDr. Emília Halušková, CSc. | Mgr. Matej Baláž, PhD., Ústav geotechniky SAV | PB | Velikán Vaječná škrupina | ESŠ Liptovský Mikuláš | 9.11.2018 |
| RNDr. Emília Halušková, CSc. | Mgr. Matej Baláž, PhD., Ústav geotechniky SAV | PB | Velikán Vaječná škrupina | ZŠ Demänovská, Liptovský Mikuláš | 8.11.2018 |
| RNDr. Emília Halušková, CSc. | Mgr. Matej Baláž, PhD., Ústav geotechniky SAV | PB | Velikán Vaječná škrupina | ZŠ J. D Matejovie, Liptovský Hrádok | 9.11.2018 |
| RNDr. Emília Halušková, CSc. | Mgr. Matej Baláž, PhD., Ústav geotechniky SAV | PB | Velikán Vaječná škrupina | ZŠ Liptovský Ján | 8.11.2018 |
| Ing. Michal Hospodár |  | PB | Automaty | Deň otvorených dverí MÚ SAV, Košice | 7.11.2018 |
| Mgr. Tibor Macko, PhD. |  | PB | O Eulerovom vzorci a futbalovej lopte | Deň otvorených dverí MÚ SAV, Bratislava | 7.11.2018 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Deň otvorených dverí na MÚ SAV: Matematika v hre, hra v matematike | MÚ SAV, Košice | 7.11.2018 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Pátek s matematikou a fyzikou pro středoškoláky, Logika ako pokus zachytiť Myslenie - Úvod úvodu | Matematický ústav, Slezská univerzita, Opava, Česká republika | 11.5.2018 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární | Deň otvorených dverí MÚ SAV, Bratislava | 7.11.2018 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RNDr. Martin Plávala |  | IN | A simple demonstration of incompatibility of measurements | https://quantum-journal.org/views/qv-2018-07-11-8/ | 13.7.2018 |
| RNDr. Martin Plávala |  | IN | Najznámejší senzibil socializmu Anatolij Kašpirovskij si nedá pokoj so zázrakmi. Celému svetu liečil nos | https://www.pluska.sk/sarm/zdravie-chudnutie/najznamejsi-senzibil-socializmu-anatolij-kaspirovskij-si-neda-pokoj-so-zazrakmi-celemu-svetu-liecil-nos.h | 4.9.2018 |
| RNDr. Martin Plávala |  | PB | O tom, ako sa niekedy nedajú robiť dve veci naraz a prečo je to zaujímavé pre fyzikov a programátorov | Deň otvorených dverí, MÚ SAV, Bratislava | 7.11.2018 |
| RNDr. Martin Plávala |  | IN | Potrebujeme aj základný výskum? | https://dennikn.sk/blog/1029988/potrebujeme-aj-zakladny-vyskum/ | 15.2.2018 |
| RNDr. Martin Plávala |  | IN | Slovenský doktorand z Matematického ústavu SAV zaujal austrálskych stredoškolákov | http://www.netky.sk/clanok/slovensky-doktorand-z-matematickeho-ustavu-sav-zaujal-australskych-stredoskolakov | 16.7.2018 |
| RNDr. Martin Plávala |  | IN | Slovenský doktorand zaujal austrálskych stredoškolákov | http://www.teraz.sk/veda/slovensky-doktorand-zaujal-australskyc/337190-clanok.html | 16.7.2018 |
| RNDr. Martin Plávala | Andrea Nozdrovická | IN | Inovátorské projekty hodnotili aj mladí vedci zo SAV | https://www.sav.sk/?lang=sk&charset=&doc=services-news&source\_no=20&news\_no=7526 | 20.4.2018 |
| RNDr. Martin Plávala | Monika Hucáková | IN | Jednou nohou vo fyzike, druhou v matematike | http://vedanadosah.cvtisr.sk/jednou-nohou-vo-fyzike-druhou-v-matematike | 17.7.2018 |
| RNDr. Martin Plávala | Monika Hucáková | IN | Mladí inovátori dostali pre svoje projekty finančnú injekciu | http://vedanadosah.cvtisr.sk/mladi-inovatori-dostali-pre-svoje-projekty-financnu-injekciu | 23.4.2018 |
| RNDr. Martin Plávala | Monika Hucáková | IN | Veda a vedci priamo na školách | http://vedanadosah.cvtisr.sk/veda-a-vedci-priamo-na-skolach | 31.10.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Granty pre študentov pomáhajú slovenskému školstvu | http://skolskyservis.teraz.sk/skolstvo/granty-pre-studentov-pomahaju-slovens/39493-clanok.html | 12.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Granty pre študentov pomáhajú slovenskému školstvu | https://www.ucn.sk/vyzvy/granty-pre-studentov-pomahaju-slovenskemu-skolstvu | 14.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Granty pre študentov pomáhajú slovenskému školstvu. 3 dôvody, prečo sa o ne uchádzať | https://www.edotacie.sk/clanky/granty-pre-studentov-pomahaju-slovenskemu-skolstvu-3-dovody-preco-sa-o-ne-uchadzat | 12.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Granty pre študentov pomáhajú slovenskému školstvu. 3 dôvody, prečo sa o ne uchádzať | https://www.nadaciapontis.sk/clanok/granty-pre-studentov-pomahaju-slovenskemu-skolstvu-3-dovody-preco-sa-o-ne-uchadzat/2572 | 12.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Chceš rozvíjať svoj talent vo vede a výskume? Súťaž o grant! | http://vedanadosah.cvtisr.sk/chces-rozvijat-svoj-talent-vo-vede-a-vyskume-sutaz-o-grant | 20.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Nadácia Pontis ponúka granty pre študentov | https://www.skolaefektivne.sk/33/nadacia-pontis-ponuka-granty-pre-studentov-uniqueiduchxzASYZNbZPksWr5xNID2ZJ7-LdEtoO8DwpRwFLr8/ | 19.1.2018 |
| RNDr. Martin Plávala | Nadácia Pontis | IN | Student grants help the Slovak school system: 3 reasons to apply | https://www.nadaciapontis.sk/article/student-grants-help-the-slovak-school-system-3-reasons-to-apply/2572 | 12.1.2018 |
| RNDr. Martin Plávala | Stanislav Ščepán | IN | Ako vysvetliť nekompatibilitu meraní | https://www.sav.sk/index.php?doc=services-news&source\_no=20&news\_no=7701 | 16.7.2018 |
| RNDr. Martin Plávala | Stanislav Ščepán | IN | Matematika prináša kľúče poznania | https://www.sav.sk/?lang=sk&charset=&doc=services-news&source\_no=20&news\_no=7932 | 10.10.2018 |
| Mgr. Peter Mlynárčik, PhD. | pozvaní hostia | PB | Matematický alternatívny krúžok | MÚ SAV, Košice | 25 |
| RNDr. Martin Plávala |  | TL | článok | Šarm | 1 |

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