**Matematický ústav SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2019**   
   
Verzia 5 (3. 2. 2020)  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2020

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**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   
**E-mail:** mathinst@mat.savba.sk   
   
**Názvy a adresy organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

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

Detašované pracoviská:

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

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

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

**Vedúci organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky:

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

Detašované pracoviská:

 [**Oddelenie informatiky Matematického ústavu SAV**](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=85)   
[doc. Ing. Gabriel Okša, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=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. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5699)

**Členovia Snemu SAV za organizačné zložky:**   
 nie sú

**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** | **O** |
| **M** | **Ž** | **M** | **Ž** |
| **Celkový počet zamestnancov** | 74 | 45 | 29 | 8 | 2 | 66 | 40.29 | 27.51 | 0 |
| **Vedeckí pracovníci** | 51 | 40 | 11 | 5 | 0 | 45 | 27.73 | 27.27 | 0 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 10 | 4 | 6 | 3 | 2 | 8 | 3.56 | 0.24 | 0 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Odborní pracovníci ÚS** | 9 | 1 | 8 | 0 | 0 | 9 | 6.86 | 0 | 0 |
| **Ostatní pracovníci** | 4 | 0 | 4 | 0 | 0 | 4 | 2.14 | 0 | 0 |

*1 odmeňovaní podľa 553/2003 Z.z., príloha č. 5   
2 odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*   
   
*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2019 (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 31.12.2019 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

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

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2019)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 9 | 31 | 7 | 13 | 9 | 12 | 19 |
| **Ženy** | 3 | 9 | 0 | 2 | 3 | 3 | 5 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | | **31-35** | | **36-40** | | **41-45** | | **46-50** | | **51-55** | | **56-60** | | **61-65** | | **> 65** | |
|  | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 2 | 2.0 | 4 | 2.2 | 4 | 3.0 | 3 | 0.4 | 4 | 2.3 | 1 | 1.0 | 4 | 1.7 | 6 | 4.0 | 7 | 5.4 |
| **Ženy** | 2 | 0.1 | 0 | 0.0 | 5 | 3.1 | 0 | 0.0 | 2 | 1.0 | 1 | 1.0 | 1 | 1.0 | 1 | 1.0 | 1 | 1.0 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov   
B - Prepočet so zohľadnením úväzkov zamestnancov*   
   
Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
| **Muži** | 51.1 | 52.4 | 52.2 |
| **Ženy** | 50.6 | 49.4 | 46.0 |
| **Spolu** | 50.9 | 51.7 | 50.5 |

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

Na základe vnútorného akademického hodnotenia ústavov za r. 2018 Matematický ústav SAV získal v r. 2019 najlepšie hodnotenie práve v 1. Oddelení SAV vďaka výbornej publikačnej aktivite MÚ SAV.

Na ústave prebehli úspešne koncom augusta 2019 dve obhajoby dizertačných prác RNDr. M. Plávalu, PhD. a Ing. M. Hospodára, PhD.

V rámci Týždňa vedy sme mali 11. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach.

V r. 2016 Mgr. Andrea Zemánková, PhD., ktorá získala prestížny štipendijný program Štipendium SAV pre mladých odborníkov, bola na predĺženej rodičovskej dovolenke, z ktorej sa vrátila v závere r. 2019. Toto štipendium získali len traja pracovníci SAV.

V r. 2019 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(2018)=0,490, päťročný impakt faktor 0,488 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,279 (Scimago Journal Ranking) a je v 3. kvartile. Počet zaslaných článkov v r. 2019 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,226 (Scimago Journal Ranking) a je v 3. kvartile**.**

Na jeseň 2019 prof. RNDr. Michal Fečkan, DrSc., ktorý je aj našim pracovníkom, získal prestížne ocenenie Highly Cited Researchers za rok 2019.

V závere roka boli schválené dva granty OP ŠF: 313011T683 - Matematická podpora kvantových technológií, 313011T634 - Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov.

Bohužiaľ, v septembri 2019 zomrel po ťažkej chorobe doc. RNDr. J. Borsík, CSc.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Domáce projekty riešené v roku 2019

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet** | | **Čerpané financie (€)** | | | | | |
| **A** | **B** | **A** | | | | **B** | |
| **Zo zdrojov SAV** | | **Z iných zdrojov** | | **Zo zdrojov SAV** | **Z iných zdrojov** |
| **Spolu** | **Pre  organi-  záciu** | **Spolu** | **Pre  organi-  záciu** |
| **1. Projekty VEGA** | 10 | 5 | 59355 | 55322 | - | - | - | 6506 |
| **2. Projekty APVV** | 1 | 5 | - | - | 35559 | 29407 | - | 35602 |
| **3. Projekty OP ŠF** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty SASPRO** | 0 | 0 | - | - | - | - | - | - |
| **5. Iné projekty (FM EHP, ŠPVV,   Vedecko-technické projekty, ESF,   na objednávku rezortov a pod.)** | 1 | 1 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2019

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia  je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV r. 2019** | - | 3 | 2 |
| **2. Projekty výziev OP ŠF**  **podané r. 2019** | Bratislava |  |  |
| Regióny | 1 |  |

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2019**

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | - | - | - | - | - | 19990 |
| **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** | 1 | 0 | - | - | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | - | - | - | - | - | - |
| **8. Podpora MVTS z národných   zdrojov okrem SAV (APVV a iné)** | 0 | 0 | - | - | - | - | - | - |
| **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 2019**

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

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

V roku 2019 sme podali na Výskumnej agentúre projekt:

Inteligentné technológie na manažment zdravotného stavu rizikovej skupiny tehotných žien

Žiadateľ: Matematický ústav SAV

Operačný program: 313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.2.1-08

Kód žiadosti: NFP313010V547

Celkové oprávnené výdavky:7 851 098,89 €

Požadovaná výška NFP:6 930 740,26 €

Partneri:

 Biomedicínske centrum SAV, Bratislava,

 Centrum biológie rastlín a biodiverzity SAV, Nitra

 Centrum experimentálnej medicíny SAV, Bratislava,

 REGENMED, spol. s r.o., Bratislava,

 Slovenská poľnohospodárska univerzita, Nitra,

 Slovenská technická univerzita, Bratislava,

 Stredoslovenský ústav srdcových a cievnych chorôb, Banská Bystrica,

 Univerzita Komenského, Bratislava,

 Ústav merania SAV, Bratislava,

Základným cieľom projektu je využiť moderné technológie a know-how špičkových vedecko-výskumných pracovníkov na zlepšenie metabolického zdravia žien s rizikom gestačného diabetu (GDM), hypertenzie a tiež zdravia ich detí účinkom individualizovanej klinicky implementovateľnej intervencie vytvorenej na základe dynamického monitorovania pohybovej aktivity a výživy prostredníctvom telemedicínskych služieb počas gravidity. Automatizácia zberu, spracovania, zdieľania, výmeny, archivácie a analýzy dát súvisiacich so zdravotným stavom tehotnej ženy umožňuje kontinuálny monitoring a predikciu vývoja jej zdravotného stavu za účelom minimalizácie rizika jeho zhoršenia. Práve heterogenita týchto dát vrátane tých z genetických a epigenetických vyšetrení podporuje personalizáciu diagnostiky a štandardizáciu liečby vytvorením nových liečebných postupov založených na úprave životného štýlu tehotnej ženy.

V decembri 2019 sme s Výskumnou agentúrou podpísali zmluvy na riešenie projektov (oba podané v roku 2018):

 Matematická podpora kvantových technológií

Žiadateľ: Matematický ústav SAV

Operačný program: :313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-09

Kód žiadosti:NFP313010T683

Číslo zmluvy: [016/2019/OPII/VA](https://www.crz.gov.sk/index.php?id=4381746&l=sk)

Celkové oprávnené výdavky projektu: 1 001 422,60 € (žiadané 1 087 916,53 €)

 Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov

Žiadateľ: Matematický ústav SAV

Operačný program: :313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-10

Kód žiadosti:NFP313010T634

Číslo zmluvy: [017/2019/OPII/VA](https://www.crz.gov.sk/index.php?id=4383908&l=sk)

Celkové oprávnené výdavky projektu: 1 060 712,02 € (žiadané 1 239 037,76 €)

**2.3. Najvýznamnejšie výsledky vedeckej práce** (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

**2.3.1. Základný výskum**

**Poznámka o slabo frakcionálnych diferenciálnych rovniciach**

V uvedenom článku sú porovnané riešenia frakcionálnych diferenciálnych rovníc Caputovho typu rádu q blízkeho 1 s riešeniami príslušnej obyčajnej diferenciálnej rovnice prvého rádu. Pomocou odvodeného horného a dolného odhadu Mittag-Lefflerovej funkcie je dokázaný výsledok o konvergencii. Špeciálne je ukázané, že limitné prípady q→1+ a q→1- sú rôzne. Výsledky sú ilustrované na jednoduchom príklade.

**Autori**: **M. Fečkan** (MÚ SAV)**, M. Pospíšil** (MÚ SAV), J. Wang (Guizhou University, Guiyang, China)

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

**Referencia: M. Fečkan, M. Pospíšil**, J. Wang: *Note on weakly fractional differential equations*, Advances in Difference Equations 2019 (2019), No. 143, 11 pages.

**Note on weakly fractional differential equations**

In this paper, we compare solutions of q-order fractional differential equations of Caputo type for q near 1 with solutions of the corresponding 1-order ordinary differential equations. By establishing the explicit lower and upper bounds of Mittag-Leffler functions, we obtain the effective convergence results. It is shown that the limit cases q→1+ and q→1– are different. A simple illustrative example is also presented.

Authors: **M. Fečkan** (MÚ SAV)**, M. Pospíšil** (MÚ SAV), J. Wang (Guizhou University, Guiyang, China)

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

**Reference**: **M. Fečkan, M. Pospíšil**, J. Wang: *Note on weakly fractional differential equations*, Advances in Difference Equations 2019 (2019), No. 143, 11 pages.

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**Distribučné funkcie postupností: Teória**

**Teória distribučných funkcií postupností nie je v súčasnosti dostatočne prepracovaná**

Predkladaná kniha obsahuje: Základné vlastnosti množiny distribučných funkcií ako sú neprázdnosť, uzavretosť a súvislosť, príklady aplikácií distribučných funkcií ako úplne riešenie Benfordovho zákona, použitie štatisticky nezávislých, štatisticky konvergentných postupností, úplne riešenie nového trojrozmerného momentového problému, výpočet množiny distribučných funkcií pre špeciálne postupnosti ako napr. 3/2 umocnené na n-tú modulo 1 spolu s ich funkcionálnou rovnosťou, blokové postupnosti, distribučné funkcie viacrozmerných postupností, napr. kopule g(x,y), kde g(x,1)=x a g(1,y)=y, a tiež hľadanie extrémov integrálov ∫F(x,y)dg(x,y) cez kopule a na záver riešenie integrálnych rovníc ∫F(x,y)dg(x)dg(y)=0 v distribučných funkciách g(x) pre kopozitívne funkcie F(x,y) prevedením integrálu ∫ F(x,y)dg(x)dg(y) na maticový tvar.

**Autor: O. Strauch** (MÚ SAV)

**Projekt:** VEGA grant 2/0109/18

**Referencia: Strauch, O.,** *Distribution Function of Sequences: A Theory*. ISBN 978-80-224-1734-1, VEDA, Bratislava, 2019, ISBN 978-80-200-3010-8, Academia, Prague, 2019, pp. 592.

**Distribution function of Sequences: A Theory**

The study of the set of distribution functions of sequences is still unsatisfactory. This book contains: Basic properties of the set of distribution functions, e.g. it is nonempty, closed and connected, examples of applications of distribution functions, e.g. general scheme of solution of Benford's law, use of statistically independent sequences, statistically convergent sequences, contains complete solution of a new three-dimensional moment problem, contain computation of distribution functions for special sequences, e.g. 3/2 to the power of n modulo 1 with a functional equation, block sequences, distribution functions of multi-dimensional sequences, e.g. copulas g(x,y), where g(x,1)=x a g(1,y)=y, computation extremes of an integral ∫F(x,y)dg(x,y) over g(x,y), and finally solution of an integral equation “∫ F(x,y)dg(x)dg(y)=0” over distribution functions g(x) for copositive F(x,y) and a matrix form of the “∫ F(x,y)dg(x)dg(y)”.

**Author: O. Strauch** (MÚ SAV)

**Project:** VEGA grant 2/0109/18

**Reference: Strauch, O.,** *Distribution Function of Sequences: A Theory*. ISBN 978-80-224-1734-1, VEDA, Bratislava, 2019, ISBN 978-80-200-3010-8, Academia, Prague, 2019, pp. 592.

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**Nedeterministická zložitosť v podtriedach regulárnych jazykov**

Skúma sa nedeterministická stavová zložitosť základných regulárnych operácií na triedach bezpredponových, bezpríponových, bezfaktorových a bezpodslovových, uzavretých, a konvexných regulárnych jazykov a na triedach pravo, ľavo, obojstranne a všetkostranne ideálnych regulárnych jazykov. Pre operácie zreťazenia, prieniku, zjednotenia, zrkadlového obrazu, Kleeneho uzáveru a doplnku dostávame tesné horné hranice pre všetky uvažované triedy okrem doplnku na faktorovo a podslovovo konvexných jazykoch. Väčšina našich dosvedčujúcich jazykov je popísaná na optimálnych abecedách. Popis vlastného príponovo konvexného (t.j., nie bezpríponového, uzavretého, ani ideálneho) jazyka na päťpísmenovej abecede dosahujúceho hornú hranicu 2n pre doplnok a získanie asymptoticky tesnej hranice Θ(√n) pre doplnok na unárnych bezpredponových jazykoch sú medzi najzaujímavejšími výsledkami tohto článku.

**Autori**: **M. Hospodár, G. Jirásková, P. Mlynárčik** (MÚ SAV)

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

**Referencia**: **M. Hospodár, G. Jirásková, P. Mlynárčik:** *Nondeterministic complexity in subclasses of convex languages*. Theoretical Computer Science 787 (2019), 89-110.

https://doi.org/10.1016/j.tcs.2018.12.027

**Nondeterministic complexity in subclasses of convex languages**

We study the nondeterministic state complexity of basic regular operations on the classes of prefix-, suffix-, factor-, and subword-free, -closed, and -convex regular languages and on the classes of right, left, two-sided, and all-sided ideal regular languages. For the operations of concatenation, intersection, union, reversal, star, and complementation, we get tight upper bounds for all considered classes except for complementation on factor- and subword-convex languages. Most of our witnesses are described over optimal alphabets. The description of a proper suffix-convex (i.e., not suffix-free, closed, or ideal) language over a five-letter alphabet meeting the upper bound 2n for complementation, and obtaining an asymptotically tight bound Θ(√n) for complementation of unary prefix-free languages are among the most interesting results of this paper.

**Authors**: **M. Hospodár, G. Jirásková, P. Mlynárčik** (MÚ SAV)

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

**Reference**: **M. Hospodár, G. Jirásková, P. Mlynárčik**: *Nondeterministic complexity in subclasses of convex languages*. Theoretical Computer Science 787 (2019), 89-110.

https://doi.org/10.1016/j.tcs.2018.12.027

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**2.3.2. Aplikačný typ**

**Lineárna komparatívna kalibrácia**

Navrhol sa nový model komparatívnej kalibrácie s lineárnou kalibračnou funkciou, ktorá stanovuje vzťah medzi dvomi meracími prístrojmi (meracími zariadeniami), pričom každý z nich meria dvojrozmerné signály. Návrh modelu takejto dvojrozmernej kalibrácie je založený na metrologickom prístupe vyjadrenia neistôt v meraní. Takto získaný model kalibrácie je z matematicko-štatistického hľadiska model s chybami v premenných (errors-in-variables (EIV ) model). Teda model nelineárny v parametroch. Avšak po vhodnej linearizácii parametre kalibračnej funkcie môžu byť odhadnuté použitím optimálnych odhadovacích algoritmov vyvinutých pre lineárne regresné modely s ohraničeniami typu II na parametre modelu. Na základe toho sa navrhol iteratívny algoritmus pre optimálne odhady parametrov lineárnej kalibračnej funkcie a tiež metóda pre vyhodnotenie neistôt pri meraní kalibrovaným meradlom.

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

**Projekty**:VEGA 2/2054/18, VEGA 2/0081/19, APVV-15-0295

**Referencia**: **Wimmer, G.,** Witkovský, V., *Two-dimensional linear comparative calibration and measurement uncertainty*, In: MEASUREMENT 2019: Proceedings of The 12th International Conference on Measurement - Bratislava, Slovakia: Institute of Measurement Science, Slovak Academy of Sciences (2019), 66-69 ISBN 978-80-972629-2-1 (ADNB), (SCOPUS).

**Linear comparative calibration**

A new comparative calibration model with a linear calibration function has been proposed, which establishes the relationship between two measuring instruments (measuring systems), each measuring two-dimensional signals. The design of such a two-dimensional calibration model is based on a metrological approach for expressing uncertainty in measurement. The calibration model thus obtained is, from a mathematical-statistical point of view, a model with errors-in-variables (EIV). Thus, the model is nonlinear in parameters. However, after suitable linearization parameters of the calibration function can be estimated using optimal estimation algorithms developed for linear regression models with type II conditions on the parameters. Based on this, an iterative algorithm was developed for optimal estimation of calibration function parameters as well as a method for evaluating uncertainties of the calibrated measuring instrument measurements.

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

**Projects**:VEGA 2/2054/18, VEGA 2/0081/19, APVV-15-0295

**Reference**: **Wimmer, G.,** Witkovský, V., *Two-dimensional linear comparative calibration and measurement uncertainty*, In: MEASUREMENT 2019: Proceedings of The 12th International Conference on Measurement - Bratislava, Slovakia: Institute of Measurement Science, Slovak Academy of Sciences (2019), 66-69 ISBN 978-80-972629-2-1 (ADNB), (SCOPUS).

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**Optimalizácia prepravy plynu pomocou evolučných výpočtov na malej počítačovej sieti**

Dynamická optimalizácia zložitých transportných plynovodných sústav je v súčasnosti veľkou výzvou. Ide o aktívnu oblasť výskumu v ktorej sa dosiahol len malý pokrok. Náš výskum v tejto oblasti sa zameral na urýchlenie riešení takýchto úloh pomocou distribuovaných výpočtov na lokálnej počítačovej sieti.

Na riešenie prechodovej optimalizácie transportnej plynovodnej siete bol implementovaný distribuovaný algoritmus evolučných stratégii. Prechodová optimalizácia tu znamená optimalizáciu spotreby plynu pri dynamickom prechode medzi dvoma stacionárnymi stavmi pomocou sekvencie riadiacich úkonov (každý úkon bol definovaný časom a hodnotou otáčok kompresorovej skupiny). Experimentovali sme s dvoma koncepciami paralelizácie na lokálnej počítačovej sieti: 1) klient–server, kde centrálny počítač prideľuje úlohy iným počítačom, zhromažďuje a vyhodnocuje výsledky a 2) spolupracujúci agenti, kde na každom počítači beží agent (nezávislá inštancia evolučných stratégií), pričom si agenti počas výpočtu navzájom vymieňajú najlepšie dosiahnuté výsledky. Okrem toho sme experimentovali s použitím vzdialených výpočtových prostriedkov na platforme Google cloud.

**Autori:** I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora (Altova, GmbH)

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

**Referencia:** I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora; *Optimization of Gas Transport – Evolutionary Calculations on a Small Cluster of Computers.* In: Pipeline Simulation Interest Group: PSIG–1915, 2019, London, UK

**Optimization of Gas Transport by Evolutionary Calculations on a Small Cluster of Computers**

Dynamic optimization of a large gas transport system is an active area and a highly challenging task, where only a few results were done till now. Our research was focused to utilize distributed computing (on local resources) to solve such tasks in sufficiently short time to practical usage.

Distributed Evolution Strategy algorithm was implemented to solve transient optimization of pipeline transport network. Here the transient optimization means optimization of gas consumption during transition between two steady states by predefined number of control events determined by time and revs of each compressor group. We experiment with two concepts of local computer cluster parallelization: 1) Client-Server, where there is a central computer that assigns tasks to other computers, collects and evaluates the results and 2) Cooperative Agents, where each work station compute its own instance (agent) of Evolution Strategy and best results are exchanging among agents during computation. We also experiment with external computational resources on Google cloud platform.

**Authors:** I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora (Altova, GmbH)

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

**Reference:**  I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora; *Optimization of Gas Transport – Evolutionary Calculations on a Small Cluster of Computers.* In: Pipeline Simulation Interest Group: PSIG–1915, 2019, London, UK

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**Symetrické nelineárne funkcionálne rovnice v rezonancii**

Hlavným cieľom našich bádaní bolo ukázať také podmienky, ktoré garantujú, že funkcionálno-diferenciálne rovnice so symetricko-invariantnou vlastnosťou majú symetrické riešenia. Bolo preukázané, že úlohy pre triedu symetrických riešení pre skalárne nelineárne funkcionálno-diferenciálne rovnice v rezonancii a s posunutými argumentmi z R do R dajú sa študovať pomocou teórie okrajových úloh. Okrem tohto sme našli podmienky pre jednoznačnú riešiteľnosť všeobecných skalárnych nelineárnych funkcionálno-diferenciálnych rovníc so symetriami. Na príkladoch bola ilustrovaná teória. Tieto rovnice sú zaujímavé, lebo sa dajú nimi popísať rôzne modely v medicíne, v sociológii (napr. model Lotka-Volterra), v elektrotechnike aj v iných vedeckých odboroch.

**Autori:** **N. Dilna** (MÚ SAV), **M. Fečkan** (MÚ SAV), M. Solovyov (ElÚ SAV), J.R. Wang (Guizhou University, Guizhou, China), A. Ronto (MÚ AV ČR, Brno)

**Projekty:** VEGA No. 2/0153/16, and 1/0078/17, APVV-16-0418

**Referencie:**

1. **N. Dilna, M. Fečkan**, M. Solovyov, J.R. Wang: *Symmetric nonlinear functional differential equations at resonance*. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16.

2. **N. Dilna, M. Fečkan**, A. Rontó: *On a class of functional differential equations with symmetries*. In SYMMETRY-BASEL, 2019, vol. 11. 1456.

**Symmetric nonlinear functional differential equations at resonance**

The purpose of these investigations is to present several conditions ensuring that a functional differential equation possessing a certain symmetry-invariance property has a symmetric solution. It was shown that solvability of a problem concerning a class of symmetric solutions to scalar nonlinear functional differential equations at resonance with deviations from R into R can be investigated using the theory of boundary-value problems. Furthermore, we establish conditions on unique solvability of scalar nonlinear functional differential equations with symmetries in general form. Several examples illustrate our theory. Equations with functional perturbations are interesting from many points of view, because they describe the variable models in medicine, in sociology (for example, Lotka-Volterra model), in electrical engineering, and many others sciences.

**Authors:** **N. Dilna** (MÚ SAV), **M. Fečkan** (MÚ SAV), M. Solovyov (ElÚ SAV), J.R. Wang (Guizhou University, Guizhou, China), A. Ronto (MÚ AV ČR, Brno)

**Projects:** VEGA No. 2/0153/16, and 1/0078/17, APVV-16-0418

**References:**

1. **N. Dilna, M. Fečkan**, M. Solovyov, JR. Wang: *Symmetric nonlinear functional differential equations at resonance*. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16.

2. **N. Dilna, M. Fečkan**, A. Rontó: *On a class of functional differential equations with symmetries*. In SYMMETRY-BASEL, 2019, vol. 11. , 1456.

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**2.3.3. Medzinárodné vedecké projekty**

**Princíp „žiadna informácia nie je zadarmo“ vo všeobecných probabilistických teóriách**

Zaviedli sme informačno-teoretický princíp „žiadna informácia nie je zadarmo“ a porovnali sme ho s už známymi princípmi „žiadne klonovanie“ a „žiadna informácia bez narušenia systému“. Princíp „žiadne klonovanie“ hovorí, že informáciu nie je možné kopírovať a princíp „žiadna informácia bez narušenia systému“ hovorí, že ak chceme získať akúkoľvek informáciu o stave systému, musíme pri meraní systém narušiť a zmeniť jeho stav. Novozavedený princíp „žiadna informácia nie je zadarmo“ hovorí, že neexistuje informácia o systéme, ktorá by sa dala zistiť popri tom ako robíme ľubovoľné iné meranie.

Formalizovali sme tieto princípy vo všeobecných probabilistických teóriách. Vo všeobecných probabilistických teóriách je možné formulovať všeobecnejšie mnohé z kľúčových vlastností kvantovej teórie a pretože zahŕňajú kvantovej a klasickej teórie, štúdium všeobecných probabilistických teórií nám umožňuje porovnávať tieto teórie na základe ich príslušných vlastností a kvantifikovať ich.

V článku sme charakterizovali všetky tri princípy vo všeobecných probabilistických teóriách a nadviazali sme na predošlé známe výsledky. Ukázali sme, že všetky tri princípy sú rôzne, čo znamená, že existujú neklasické teórie, kde je možné získať netriviálne informácie o stave systému bez narušenia stavu systému a existujú neklasické teórie, kde je možné vždy získať nejakú netriviálnu informáciu o stave systému spolu s výsledkom ľubovoľného iného merania.

Publikovaný článok je voľne dostupný na internete a spĺňa princíp otvoreného prístupu k vedeckým výsledkom.

**Autori:** T. Heinosaari, L. Leppäjärvi (Univ. Turku, Turku, Finland), **M. Plávala** (MÚ SAV)

**Projekty**: VEGA 2/0069/16, APVV-16-0073

**Referencia**: T. Heinosaari, L. Leppäjärvi, **M. Plávala**, *No-free-information principle in general probabilistic theories*, Quantum 3, 157 (2019).

**No-free-information principle in general probabilistic theories**

We have introduced a new information-theoretic principle, the no-free-information principle, and compared it to the previously known no-broadcasting and no-information-without-disturbance principles. The no-broadcasting principle states that information cannot be copied, whilst the no-information-without-disturbance principle states that if we want to obtain any information about a system, we must disturb it, thereby changing the state it is in. The newly introduced no-free-information principle states that there is no type of information that can be learned about a system every time we perform any other measurement on it.

By noting that in quantum theory these principles hold, we formalized this problem in a more general class of theories, namely within the framework of general probabilistic theories (GPTs). These theories form a wide class of operational theories where many of the key features of quantum theory can be formulated more generally. By including both quantum and classical theory, as well as countless toy theories, the study of GPTs allows us to compare these theories based on their respective features and quantify their properties.

In the manuscript, we have mathematically characterized the principles in question within the GPT framework, tying our work with previously known results. We show that all three principles are strictly different, which means that there are operationally valid theories (even non-classical theories) where one can obtain non-trivial information about a system without disturbing it and where one can always choose to get some fixed non-trivial information when performing any other measurement.

The published manuscript is published in an open-access journal, i.e., it is freely available online.

**Authors**: T. Heinosaari, L. Leppäjärvi (Univ. Turku, Turku, Finland), **M. Plávala** (MÚ SAV)

**Projects:** VEGA 2/0069/16, APVV-16-0073

**Reference:** T. Heinosaari, L. Leppäjärvi, **M. Plávala**, *No-free-information principle in general probabilistic theories*, Quantum 3, 157 (2019).

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**Teória EMV-algebier a stavy na nich**

Zaviedli sme EMV-algebry, ktoré zovšeobecňujú MV-algebry a zovšeobecnené Boolovské algebry, kde sa nepredpokladá existencia najväčšieho prvku. Tieto algebry majú lokálne vlastnosti blízke MV-algebrám, ale v celom už nie nutne. Ukázali sme, že ak EMV-algebra M má najväčší element, potom je ekvivalentná MV-algebre, ak nemá najväčší prvok, potom sa dá vnoriť do EMV-algebry N s najväčším prvkom ako maximálny ideál v N. Ukázali sme, aj kategoriálnu ekvivalenciu kategórie EMV-algebier bez najväčšieho prvku so špeciálnou kategóriou MV-algebier.

Študovali sme stavy na EMV-algebrách, ich topologické vlastnosti. Ukázali sme, že stavový priestor EMV-algebry bez najväčšieho prvku je lokálne kompaktný priestor, a jeho jedno-bodová kompaktifikácia je stavový priestor reprezentujúcej EMV-algebry s najväčším prvkom. Ukázali sme, že každý stav na EMV-algebre sa dá reprezentovať ako integrál pomocou sigma-aditívnej pravdepodobnostnej miery.

**Autori: A. Dvurečenskij** (MÚ SAV), O. Zahiri (Tehran, Iran)

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

**Referencie:**

1. **A. Dvurečenskij**, O. Zahiri, *On EMV-algebras*, Fuzzy Sets and Systems **373** (2019), 116--148. https:doi.org/10.1016/j.fss.2019.02.013 CC

2. **A. Dvurečenskij**, O. Zahiri, *States on EMV-algebras*, Soft Computing **23** (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x CC

**Theory of EMV-algebras and states on them**

We have introduced EMV-algebras generalizing both MV-algebras and generalized Boolean algebras, where the top element is not assumed. These algebras resemble locally properties of MV-algebras, however in global, they are not necessarily equivalent to MV-algebras. We have shown that if an EMV-algebra has a top element, then it is equivalent to an MV-algebra, and if it has no top element, than it can be embedded into an EMV-algebra N with top element as a maximal ideal of N. We have shown a categorial equivalence of the category of EMV-algebras without top element with some category of MV-algebras.

We have studied states on EMV-algebras, their topological properties. We have shown that the state space of an EMV-algebra without top element is locally compact and its one-point compactification is the state space of the representing EMV-algebra with top element.

**Authors: A. Dvurečenskij** (MÚ SAV), O. Zahiri (Tehran, Iran)

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

**References:**

1. **A. Dvurečenskij**, O. Zahiri, *On EMV-algebras*, Fuzzy Sets and Systems **373** (2019), 116–148.

2. **A. Dvurečenskij**, O. Zahiri, *States on EMV-algebras*, Soft Computing **23** (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x CC

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**O kardinalite varietovej množiny**

Študujeme nasledovný všeobecný problém v teórii klasifikačných otázok vysoko-rozmerných variet. Štruktúrna množina S(M) variety M v zmysle teórie chirurgií je množina, v ktorej sú zorganizované homotopické ekvivalencie zo všetkých možných variet do M. Grupa homotopických ekvivalencií M má akciu na S(M) prostredníctvom postkompozície zobrazení, faktorovú množinu tejto akcie nazývame varietová množina M a označujeme ju M(M), pozostáva presne z tried homeomorfizmov variet v homotopickom type M. Úloha je, pre ľubovoľné M vyšetriť túto akciu vzhľadom na kardinalitu.

Štruktúrna množina bola intenzívne študovaná pomocou teórie chirurgií, ale vo všeobecnosti sa nevedelo veľa o M(M) a jej vzťahu s S(M). Jeden z výsledkov v tejto oblasti je, že M(M) je nekonečná ak fundamentálna grupa M obsahuje torziu a existuje aj niekoľko výpočtov v špeciálnych prípadoch.

Ukázali sme, že pre jednoducho súvislú M platí, že S(M) je nekonečná práve vtedy keď M(M) je nekonečná. Inými slovami, ak existuje nekonečne veľa neekvivalentných homotopických ekvivalencií z nejakých variet, tak medzi týmito varietami už je nekonečne veľa tried homeomorfizmov. V prípade, že M nie je jednoducho súvislá sme ukázali protipríklad k tomuto tvrdeniu a taktiež sme prebrali ďalšie technickejšie výsledky.

Potenciálnou aplikáciou tohto výsledku je dôkaz nekonečnosti M(M) v prípadoch, ktoré doteraz neboli známe.

**Autori**: D. Crowley (University of Melbourne), **T. Macko** (MÚ SAV)

**Projekty**: VEGA 1/0101/17 a APVV-16-0053

**Referencia**: Crowley, D., **Macko, T.**, *On the cardinality of the manifold set*. In: Geometriae Dedicata (2019), Vol. 200 (1), pp 265-285, https://doi.org/10.1007/s10711-018-0370-1 (SCOPUS)

**On the cardinality of the manifold set**

We study the following general problem in the theory of classification of high-dimensional manifolds. The structure set S(M) of M in the sense of surgery theory is a set in which all homotopy equivalences from all manifolds to M are organized together. The group of homotopy equivalences of M acts on it by post-composition and we call the quotient set the manifold set of M and denote it by M(M), it consists precisely of homeomorphism classes of manifolds homotopy equivalent to M. The task is, given a manifold M to investigate the behavior of this action with respect to cardinality.

The structure set has been studied extensively by surgery theory, but not much was known in general about M(M) and its relation to S(M). One result is that if the fundamental group contains torsion then M(M) is infinite and there are some calculations in special cases.

We show that for M simply connected, S(M) is infinite if and only if M(M) is infinite. In other words we show that if there are infinitely many non-equivalent homotopy equivalences from some manifolds to M then among these manifolds are already infinitely many homeomorphism classes. We give a counter-example to this statement in the non-simply connected case and we also discuss some other more technical results in the non simply connected case.

Potential applications of this result include the proof that M(M) is infinite in cases where this was not known before.

**Authors**: D. Crowley (University of Melbourne), **T. Macko** (MÚ SAV)

**Projects**: VEGA 1/0101/17 and APVV-16-0053

**Reference**: Crowley, D., **Macko, T.**: *On the cardinality of the manifold set*. In: Geometriae Dedicata (2019), Vol. 200 (1), pp 265-285, https://doi.org/10.1007/s10711-018-0370-1 (SCOPUS)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2019/ doplnky z r. 2018** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich   vydavateľstvách** (AAB, ABB) | **1 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných   vydavateľstvách** (AAA, ABA) | **0 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané   v domácich vydavateľstvách** (BAB, ACB, CAB) | **0 / 0** |
| **4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané   v zahraničných vydavateľstvách** (BAA, ACA, CAA) | **0 / 0** |
| **5. Kapitoly vo vedeckých monografiách vydaných v domácich   vydavateľstvách** (ABD) | **0 / 0** |
| **6. Kapitoly vo vedeckých monografiách vydaných v zahraničných   vydavateľstvách** (ABC) | **2 / 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) | **35 / 6** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **38 / 6** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **8 / 1** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **0 / 0** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **2 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **0 / 0** |
| **17.** [**Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS**](#PeriodikaCCC_WOS_SCOPUS) | **2** |
| **18.** [**Ostatné vydané periodiká**](#PeriodikaOstatne) | **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. 2018 (zdroj JCR)**   *Počet článkov / doplnky 2017* | 18 / 1 | 9 / 3 | 8 / 0 | 8 / 5 | 43 / 9 |
| **Podľa SJR z r. 2018 (zdroj Scimago)**   *Počet článkov / doplnky 2017* | 20 / 1 | 24 / 4 | 16 / 7 | 13 / 0 | 73 / 12 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2018/ doplnky z r. 2017** |
| **Citácie vo WOS (1.1, 2.1)** | 1046 / 25 |
| **Citácie v SCOPUS (1.2, 2.2)** | 168 / 20 |
| **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)** | 26 / 0 |
| **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** | 35 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 14 |

**Účasť a vedenie seminárov**

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

**vedúci:** R. Frič

**referáty:** P. Eliaš (2x), R. Frič (2x), J. Haluška, E. Halušková, M. Hospodár, G. Jirásková, I. Krajňáková, J. Pócs, M. Repický

**účasť:** D. Babicová, P. Mlynárčik, M. Ploščica

**Seminár z kvantových logík**

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

**referáty:** R. Frič (2x)

**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 (3x), M. Repický (4x)

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

**vedúci:** S. Krajči (PF UPJŠ)

**referáty:** P. Eliaš (6x), R. Frič

**Seminár z usporiadaných štruktúr na PF UPJŠ**

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

**referáty:** E. Halušková (2x), J. Pócs (5x)

**Set-Valued Analysis**

**vedúci:** Ľ. Holá

**referáty:** B. Novotný (9x)

**Seminár z teoretickej informatiky**

**vedúci:** G. Jirásková

**referáty:** M. Hospodár (5x), G. Jiráskova (10x), I. Krajňáková

**Seminár z algebraickej geometrie na FMFI UK**

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

**referáty:** T. Macko (2x)

**Seminár z algebraickej a diferenciálnej topológie**

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

**vedúci:** M. Čadek (MU Brno), T. Macko, J. Korbaš (FMFI UK/MÚ SAV), M. Niepel (FMFI UK)

**referáty:** T. Macko (4x)

**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

**Seminár z teórie kategórií**

**vedúci:** A. Jenčová

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

**účasť:** S. Pulmannová

**Seminár na Katedre matematiky z agregačných funkcií (PF KU Ružomberok)**

**vedúci:** M. Papčo (PF KU RK / MÚ SAV KE)

**referáty:** D. Babicová

**RCQI seminár (FÚ SAV)**

**vedúci:** M. Ziman (FÚ SAV)

**účasť:** M. Plávala

**Seminár z kryptológie na FEI STU**

**Vedúci:** O. Grošek

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

**Seminár z kybernetickej bezpečnosti na FEI STU**

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

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

**2.6. Vyžiadané prednášky**

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

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

 **FRIČ, R.**: *Measures on product and stochastic independence,* Institute of Mathematics, Czech Academy of Sciences, Praha, Czech Republic, Seminar on Differential Equations and Integral Theory, Praha, Czech Republic, 5. 12. 2019.

 **JENČOVÁ, A.**: *Incompatible measurements in GPT*, Workshop GPT&QIT Generalized Probabilistic Theories and Quantum Information, Lyon, 1.–2. 7. 2019.

 **JENČOVÁ, A.**: *Randomization theorems for bipartite quantum channels*, BIRS Workshop: Algebraic and Statistical ways into Quantum Resource Theories, Banff, Canada, 22.–26. 7. 2019.

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

 **FRIČ, R.**: *Poznámky o kategoriálnej pravdepodobnosti,* Matematický ústav SAV, Seminar on Quantum Logics, Center of Excellence QUTE, Bratislava, 3. 12. 2019.

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

 **PAPČO, M.**: *On multidimensional deviation-based aggregation,* Departamento de Automática y Computación, Universidad Pública de Navarra, Pamplona, Španielsko, 1.–17. 10. 2019.

 **VAJTERŠIC, M.**: *Parallelization of NMF (Nonnegative Matrix Factorization)*, Department of Computer Science, Tel Aviv University, Tel Aviv, Israel, 14. 5. 2019.

 **VAJTERŠIC, M.**: *SIMD matrix-multiplication algorithms for massively parallel arrays*, Department of Computer Science, Hebrew University, Jerusalem, Israel, 15. 5. 2019.

 **VAJTERŠIC, M.**: *Explicite formulas for Strassen's algorithm and their combinations with the classical matrix multiplication*, Hebrew University, Jerusalem, Israel, 6. 11. 2019.

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

 **BABICOVÁ, D.**: *Conditional Probability in Fuzzified Probability Theory*, ISCAMI 2019 (International Student Conference on Applied Mathematics and Informatics), Praha, ČR, 16.–19. 5. 2019.

 BUTKA, P.— **PÓCS, J.**— PÓCSOVÁ, J.: *Note on aggregation functions and concept forming operators*, 10th International Summer School on Aggregation Operators, Olomouc, 1.–4. 7. 2019.

 **ČUNDERLÍKOVÁ, K.**: *m-almost everywhere convergence of intuitionistic fuzzy observables induced by Borel measurable function,* 23rd International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulharsko, 16.–17. 5. 2019.

 **ČUNDERLÍKOVÁ, K.**: *Two Theorems from Extreme Value Theory for Interval Valued Events*, EUSFLAT'2019, Praha, Česká republika, 9.–13. 9. 2019.

 **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and almost everywhere convergence*, IWIFSGN'2019, Varšava, Poľsko, 24.–25. 10. 2019.

 DAVIES, S.— **HOSPODÁR, M.**: *Square, Power, Positive Closure, and Complementation on Star-Free Languages*, DCFS 2019 (The 21st International Conference on Descriptional Complexity of Formal Systems), Košice, 17.–19. 7. 2019.

 **DILNA, N.**— **FEČKAN, M.**— SOLOVYOV, M.— WANG, JR.: *Symmetric nonlinear functional differential equations at resonance*, International Conference on Differential and Difference Equations and Applications, Lisbon, Portugal, 1.–5. 7. 2019.

 **DOBREV, S.**—NARAYANAN, L.—OPATRNY, J.—PANKRATOV, D.: *Exploration of High-Dimensional Grids by Finite Automata*, ICALP 2019 (46th International Colloquium on Automata, Languages and Programming), Patras, Greece, 8.–12. 7. 2019.

 ĎURIŠ, S.— ĎURIŠOVÁ, Z.— **WIMMER, G.**— DOVICA, M.: *Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels*, MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.

 **FRIČ, R.**: *On Conditional Probability*, 33th International Summer Conference on Real Functions Theory, Ustka, Poland, 8. - 13. 9. 2019.

 HALAŠ, R.— **PÓCS, J.**: *Sugeno Integrals on Bounded Distributive Lattices and their characterizations*, 24th International Conference on Mathematical Modelling and Analysis, Tallinn, 28.–31. 5. 2019.

 HALAŠ, R.— **PÓCS, J.**: *Aggregation via clone theory approach, 10th International Summer School on Aggregation Operators, Olomouc, 1.–4. 7. 2019.*

 **HALUŠKA, J.**: *On a generalization of the Gaussian plane to three dimensions*, Application of algebra in logic and computer science XXIII, Zakopane, 11.–17. 3. 2019.

 **HALUŠKOVÁ, E.**: On one discrete property of monotone functions, AALCS XXIII (Applications of Algebra XXIII), Zakopane, Poľsko, 13.–17. 3. 2019.

 **HOLÁ, Ľ.** — HOLÝ, D.: *Arzela-Ascoli type theorems for function spaces*, International Conference on Applied Mathematics, Marathon, Grécko, 14.-18. 7. 2019.

 HOLZER, M.— **HOSPODÁR, M.**: *The Range of State Complexities of Languages Resulting from the Cut Operation*, LATA 2019 (Language and Automata Theory and Applications - 13th International Conference), St. Petersburg, Rusko, 26.–29. 3. 2019.

 **HOSPODÁR, M.**: *Descriptional Complexity of Power and Positive Closure on Convex Languages*, CIAA 2019 (24th International Conference on Implementation and Application of Automata), Košice, 22.–25. 7. 2019.

 **JENČOVÁ, A.**: *On the properties of spectral effect algebras*, SSAOS 2019 (Summer School on Algebra and Ordered Sets 2019), Karolinka, Czech Republic, 1.–7. 9. 2019.

 **JIRÁSKOVÁ, G.**—KLIMA, O.: *Deterministic Biautomata and Subclasses of Deterministic Linear Languages*, Language and Automata Theory and Applications - 13th International Conference, LATA 2019, St. Petersburg, Russia, 26.–29. 3. 2019.

 **JIRÁSKOVÁ, G.**— **KRAJŇÁKOVÁ, I.**: *NFA-to-DFA Trade-Off for Regular Operations*, DCFS 2019 (The 21st International Conference on Descriptional Complexity of Formal Systems), Košice, 17.–19. 7. 2019.

 KAWARABAYASHI K.—MOHAR, B.—**NEDELA, R.**—ZEMAN, P.: Automorphism groups of maps in linear time, Midsummer Combinatorial Workshop XXIV, Praha, ČR, 29. 7.–2. 8. 2019.

 **KOCHOL, M.**: *Interpretations of the Tutte polynomials of regular matroids*, Comparative Theory for Graph Polynomials, Schloss Dagstuhl, Leibnitz-Zentrum fur Informatik GmbH, Nemecko, 29. 9.–4. 10. 2019.

 **MACKO, T.**: *On higher structure sets of lens spaces*, Winter school in geometry and physics, Srni, ČR, 12.–19. 1. 2019.

 **NEMOGA, K.**—GROŠEK, O.: *Secure Communication in the Quantum Era*, NATO Workshop on Secure Communication, Madrid, Španielsko, 24.–26. 9. 2019.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**: *Linear structure on the spaces of minimal usco and minimal cusco maps*, The 33rd International Summer Conference on Real Functions Theory, Ustka, Poľsko, 8.–13. 9. 2019.

 **OKŠA, G.**—YAMAMOTO, Y.—**VAJTERŠIC, M.**: *Asymptotic quadratic convergence of the two-sided parallel block-Jacobi SVD algorithm*, PARNUM 2019 (Parallel Numerics 2019), Dubrovnik, Croatia, 28.–31. 10. 2019.

 **PLÁVALA, M.**: *No-free-information principle in general probabilistic theories*, Workshop GPT&QIT Generalized Probabilistic Theories and Quantum Information, Lyon, 1. 7. 2019.

 **VAJTERŠIC, M.**: *Fast biharmonic solver and its scalability*, LSSC 2019 (Large Scale Scientific Computations 2019), Sozopol, Bulgaria, 10.–14. 6. 2019.

 **WIMMER, G.**— WITKOVSKÝ, V.: *Two-dimensional linear comparative calibration and measurement uncertainty*, MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.

 **WIMMER, G.**— WITKOVSKÝ, V.: *Confidence Regions for Parameters in Two-Dimensional Linear Comparative Calibration Model*, MathMet2019, International Workshop LNEC, Lisbon, Portugal, 20.–22. 11. 2019.

 WITKOVSKÝ, V.— **WIMMER, G.**: *Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration*, MathMet2019, International Workshop, LNEC, Lisbon, Portugal, 20.–22. 11. 2019.

 WITKOVSKÝ, V.— **WIMMER, G.**: *Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration,* MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.

**2.6.5. Prednášky na domácich vedeckých podujatiach**

 BOKES, P.— **NOVOTNÝ, B.**— et al.: *Analysing skin cell gene expression data,* 51. konferencia slovenských matematikov, Jasná pod Chopkom, 28. 11.–1. 12. 2019.

 **DVUREČENSKIJ, A.**: *Quo vadis, matematika?*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **ELIAŠ, P.**: *Galoisova konexia určená zužovaním spojitých reálnych funkcií,* Seminár k 60. výročiu založenia Matematickeho ústavu SAV, Smolenice, 16.–17. 9. 2019.

 **FRIČ, R.**: *Deliteľná pravdepodobnosť*, Seminár k 60. výročiu založenia Matematickeho ústavu SAV, Smolenice, 16.–17. 9. 2019.

 **HOLÁ, Ľ.**: *Topológie na funkcionálnych priestoroch*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **HOSPODÁR, M.**: *Popisná zložitosť formálnych systémov*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **MRAČKA, I.**: *Riešenie inverzných fyzikálnych problémov*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **NEDELA, R.**: *20 rokov existencie pracoviska MÚ SAV v Banskej Bystrici*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **NEMOGA, K.**: *60 rokov Matematického ústavu SAV*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **PLÁVALA, M.**: *Matematické štruktúry v kvantovej teórii informácie*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **OKŠA, G.**: *Efficient Serial and Parallel Block-Jacobi EVD/SVD Algorithms*, eminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **PÓCS, J.**: *Algebraické vlastnosti agregačných funkcií*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

 **WIMMER, G.**: *Kalibračné problémy*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

**2.6.6. Prednášky na významných vedeckých inštitúciách**

 **ČUNDERLÍKOVÁ, K.**: *Individual ergodic theorem for intuitionistic fuzzy events using IF-probability*, Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 9. 11. 2019 Banská Bystrica.

 **FRIČ, R.**: *Stochastic Channel and Conditional Probability*, Matematický ústav SAV, Seminar on Quantum Logics, Center of Excellence QUTE, Bratislava, 11. 6. 2019.

 **HALUŠKOVÁ, E.**: *On inverse limit closed classes of algebras*, Faculty of Mathematics and Information Science of Warsaw University of Technology, seminar "Seminarium z algebry ogolnej", 8. 10. 2019.

 **HALUŠKOVÁ, E.**: *On direct limits of algebras*, Faculty of Mathematics, Informatics and Mechanics of University of Warsaw, seminar "Algebra", 10. 10. 2019.

 **JENČOVÁ, A.**: *Rényi relative entropies and noncommutative Lp-spaces*, Analysis seminar, Bilkent University, Turecko, 7. 5. 2019.

 **KOCHOL, M.**: *Splitting formulas for Tutte-Grothendiek invariants on graphs*, Universität Hamburg, Nemecko, 19.2.2019.

**2.6.7. Ostatné prednášky**

 **DOBREV, S.**: *Ako nájsť poklad keď nemáš pamäť? (Prehľadávanie multi-dimenzionálnych mriežok konečnými automatmi)*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.

 **FRIČ, R.**: *O čom matematika je/nie je*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.

 **HAJOSSY, R.**: *Ako sínus s kosínusom rozhodujú o farbách jesenného lístia*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.

 **HALUŠKOVÁ, E.**: *On discrete properties of monotone functions*, Institute of Mathematics of Siedlce University, seminar, 16. 10. 2019.

 **HALUŠKA, J.**: *O matematickom modelovaní organového zvuku pozitívov Horného Gemera*, Vedecká kaviareň, 1. Slovenské gymnázium, Revúca, 11.–12. 9. 2019.

 **HOSPODÁR, M.**: *O matematických automatoch*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.

 **KRAJŇÁKOVÁ, I.**: *NFA-to-DFA Trade-Off for Regular Operations*, ústavný seminár MÚ SAV, d. p. Košice.

 **MACKO, T.**: *O Eulerovom vzorci a futbalovej lopte*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.

 **MLYNÁRČIK, P.**: *Niektoré zaujímavé úlohy z Matematickej olympiády*, Týždeň vedy a techniky 2019, Detašované pracovisko MÚ SAV v Košiciach, Košice, 4. 11. 2019.

 **MLYNÁRČIK, P.**: *Matematika veselo a vážne*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.

 **MRAČKA, I.**— **ŽÁČIK, T.**— **HYČKO, M.**— **HAJOSSY, R.**— SOMORA, P.: *Optimization of Gas Transport –Evolutionary Calculations on a Small Cluster of Computers,* PSIG 2019 (Pipeline Simulation Interest Group), London, Great Britain, 14.–17. 5. 2019.

 **NEMOGA, K.**: *NATO Cyber Security Projects*, NATO Science for Peace and Security Program Meeting, Malta University, Malta, 2.– 3. 4. 2019.

 **NEMOGA, K.**: *50 rokov Rímskeho klubu*, Globálne riziká, problémy a riešenia v prvej polovici 21. storočia, pavilón QUTE FÚ SAV, Bratislava, 19. 6. 2019.

 **NEMOGA, K.**: *Open Acces activities in Slovak Academy of Sciences*, 14th Munin Conference on Scholarly Publishing, Tromso, Nórsko, 27.–28. 10. 2019.

 **PLÁVALA, M.**: *Sčítanie a sumy v matematike od základnej školy po teóriu kategórií*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.

 **VAJTERŠIC, M.**: *ERASMUS+ Course on Efficient Parallel Algorithms for HPC Applications*, Tel Aviv University, Blavatnik School of Computer Science, Tel Aviv, Israel, 8.–19. 5. 2019.

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019**

**2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent**

**a) na Slovensku**

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2019**

**a) na Slovensku**

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

**c) PCT**

**d) EP**

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

**2.7.3. Úžitkové vzory na Slovensku**

**a) prihlásené v roku 2019**

**b) udelené v roku 2019**

**2.7.4. Realizované vynálezy**

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

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

*Finančný prínos pre organizáciu SAV v roku 2019 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** |
| Repický Miroslav | APVV | 1 |
| Wimmer Gejza | VEGA | 2 |

**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** |
| Čunderlíková Katarína | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Dvurečenskij Anatolij | 0 | 0 | 6 | 6 | 0 | 0 | 0 |
| Eliaš Peter | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Fečkan Michal | 0 | 0 | 22 | 0 | 0 | 0 | 0 |
| Frič Roman | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Haluška Ján | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Holá Ľubica | 0 | 0 | 7 | 0 | 0 | 0 | 0 |

Tabuľka 2j (pokračovanie); Počet recenzovaných monografií, článkov, zborníkov

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Meno pracovníka** | **Knižné monografie** | | **Príspevky v časopisoch** | | | **Zborníky** | |
| **Domáce** | **Zahra-  ničné** | **WoS, SCOPUS** | **Iné databázy** | **Ostatné** | **Domáce** | **Zahra-  ničné** |
| Hospodár Michal | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Hyčko Marek | 0 | 0 | 9 | 5 | 0 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 11 | 0 | 0 | 0 | 0 |
| Jirásková Galina | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Kochol Martin | 0 | 0 | 3 | 4 | 1 | 0 | 0 |
| Macko Tibor | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Novotný Branislav | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Plávala Martin | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Pócs Jozef | 0 | 0 | 7 | 1 | 0 | 0 | 5 |
| Pospíšil Michal | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Pulmannová Sylvia | 0 | 0 | 3 | 2 | 0 | 0 | 0 |
| Repický Miroslav | 0 | 0 | 0 | 16 | 0 | 1 | 0 |
| Vajteršic Marian | 0 | 0 | 2 | 0 | 0 | 0 | 30 |
| Vinceková Elena | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Wimmer Gejza | 1 | 0 | 3 | 0 | 0 | 1 | 0 |
| **Spolu** | **1** | **2** | **89** | **35** | **2** | **2** | **39** |

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

**Ostatné dosiahnuté výsledky:**

 Riešili sme hľadanie pokladu v n-rozmernej nekonečnej mriežke pre n≥3 konečne-stavovými automatmi, ktoré začínajú spolu v tom istom bode. Tento problém bol nedávno plne charakterizovaný pre dvojrozmerné mriežky s deterministickými aj randomizovanými agentami, pre plne synchrónny aj semi-synchrónny model. Bola vyslovená hypotéza, že na vyriešenie tohto problému v n-rozmernej mriežke je potrebných n+1 randomizovaných agentov. Vyvrátili sme túto hypotézu. Ukázali sme, že traja randomizovavaní synchrónni agenti stačia na preskúmanie n-rozmernej mriežky pre ľubovoľné n. Náš algoritmus používa najmenší možný počet agentov. Kľúčovým vhľadom je pozorovanie, že konštantný počet konečne-stavových agentov dokáže svojimi pozíciami a pohybom implementovať zásobník; tento zásobník postačuje na implementáciu prehľadávania tým že je v ňom uložená súčasne prehľadávaná cesta. Ukazujeme tiež ako implementovať náš algoritmus s použitím štyroch randomizovaných semi-synchrónnych agentov, štyroch deterministických synchrónnych agentov a piatich deterministických semi-synchrónnych agentov.

 Pokračujeme v budovaní teórie zovšeobecnenej pravdepodobnosti a zovšeobecnenej asymetrickej podmienenej pravdepodobnosti. Venujeme sa konštrukcii podmienenej pravdepodobnosti pre fuzzifikované udalosti. Sústredíme sa na diskrétny prípad a indikujeme posun ku zovšeobecnému prípadu.

 Pre jednostrannú blokovú Jacobiho metódu na výpočet SVD sme zaviedli predpodmieňovač. Naše experimenty ukazujú, že táto metóda je rýchlejšia ako ostatné algoritmy na výpočet SVD, v sériovom ako aj v paralelnom prípade. Avšak jej výkonnosť sa zhoršuje v prípade zle podmienených matíc. Urobili sme numerickú analýzu použitia predpodmieňovača v konečnej aritmetike a ukázali sme dôvody tohto problému.

 Dokázali sme variant Loomisovej-Sikorského vety pre EMV.

 Zaviedli sme nekomutatívny variant EMV-algebier, pseudo EMV-algebry. Dokázali sme zovšeobecnenie reprezentačnej vety pre pseudo EMV-algebry. Tieto algebry netvoria varietu, ale štruktúru blízku varietam, a systém takýchto podvariet je nespočítateľný, zatiaľ čo v prípade komutatívnych EMV-algebier je ich spočítateľný.

 Študovali sme jedno-jednoznačný vzťah medzi pozorovateľnými a spektrálnymi rozkladmi na určitých triedach efektových algebier a MV-algebier. Ukázali sme, že táto korešpondencia platí na Rad-Dedekindovských perfektných MV-algebrách. V takomto prípade sme museli dať silnejšie podmienky na spektrálny rozklad. Prípad perfektných efektových algebier sa tiež dokázal.

 Jedno-jednoznačná korešpondencia medzi pozorovateľnými a spektrálnymi rozkladmi sa skúmala na lexikografických MV-algebrách a lexikografických efektových algebrách. V tomto prípade pozorovateľné majú nutne podmienku konečnosti a preto pre spektrálne rozklady sa musela zaviesť táto podmienka.

 Boli charakterizované systémy spojitých reálnych funkcií zodpovedajúce určitým zväzom uzavretých podmnožín reálnej priamky v Galoisovej konexii určenej rozširovaním definičného oboru spojitých reálnych funkcií.

 Bola dokázaná verzia Radon-Nikodymovej vety pre Markovovské jadrá a tým popísaný jednoznačný vzťah medzi istými typmi súčinov zovšeobecnených pravdepodobnostných priestorov a pravdepodobnostnými mierami na súčinovom priestore.

 Bola systematicky vybudovaná teória deliteľnej pravdepodobnosti ako kategoriálne rozšírenie klasickej pravdepodobnosti.

 Vytvorili a skúmali sme zovšeobecnenie poľa Gaussovských komplexných čísel do 3-, 4-, a 6- rozmerných reálnych algebier. Operácie násobenia sú v týchto algebrách definované pomocou Hankelových matíc.

 Nech h je funkcia definovaná na množine A taká, že h(A) je podmnožina A a nech u je čiastočné usporiadanie na množine A. Ukázali sme, že existuje trieda algebier M taká, že ak h je monotónna vzhľadom k u, tak algebra (A,h) patrí do M. Navyše sme dokázali nasledujúcu vlastnosť triedy M: Ak algebra (B,g) je prvkom M, tak existuje lineárne usporiadanie také, že g je monotónna vzhľadom k tomuto usporiadaniu. Ďalej, urobili sme rozklad množiny všetkých reálnych spojitých monotónnych funkcií na 11 tried podľa rozkladu na komponenty monounárnych algebier, ktoré tieto funkcie určujú.

 Definovali sme vektorovú štruktúru na priestore minimálnych usco/cusco zobrazení z lokálne kompaktného priestoru do Stegallovho lokálne konvexného priestoru. Dokázali sme, že keď sú tieto priestory vybavené topológiou rovnomernej konvergencie na kompaktoch, tak sú lokálne konvexné.

 Skúmala sa popisná zložitosť operátora forever, ktorý regulárnemu jazyku L priraďuje jazyk  a vyšetrujú sa prevody medzi rôznymi modelmi konečných automatov. Uvažujú sa úplné a čiastočné deterministické konečné automaty, nedeterministické konečné automaty s jedným alebo viacerými počiatočnými stavmi, alternujúce a booleovské konečné automaty. Predpokladá sa, že argument a výsledok tejto operácie sú akceptované automatmi patriacimi do jedného z týchto šiestich modelov. Vyšetrujeme všetky možné prevody a poskytujeme presnú hodnotu zložitosti pre 32 z 36 z nich. Najzaujímavejší výsledok je prevod z nedeterministických do deterministických automatov, ktorý je určený Dedekindovým číslom M(n-1). Tiež dokazujeme, že nedeterministická stavová zložitosť operácie  je 2n-1, čo rieši otvorený problém formulovaný Birgetom.

 Vyšetrovala sa stavová zložitosť jazykov, ktoré sú výsledkom operácie strojového zreťazenia dvoch regulárnych jazykov reprezentovaných minimálnymi deterministickými konečnými automatmi s m a n stavmi. Dokazujeme, že celý rozsah zložitostí až po známu hornú hranicu, ktorá má hodnotu m ak n=1 a (m-1)n+m inak, môže byť vyrobený v prípade, že vstupná abeceda má aspoň dva symboly. Navyše dokazujeme, že v unárnom prípade iba zložitosti nanajvýš 2m-1 a medzi n a m+n-2 môžu byť dosiahnuté, čo znamená, že ak 2m ≤ n−1, potom zložitosti od 2m do n-1 nemôžu byť vyrobené.

 Študujeme popisnú zložitosť operácií k-tej mocniny a pozitívneho uzáveru na triedach bezpredponových, bezpríponových, bezfaktorových a bezpodslovových, predponovo, príponovo, faktorovo a podslovovo uzavretých a konvexných regulárnych jazykov, a na triedach pravo, ľavo, obojstranne a všetkostranne ideálnych jazykov. Ukážeme, že horná hranica kn na zložitosť k-tej mocniny v triede regulárnych jazykov je tesná pre uzavreté a konvexné triedy, zatiaľ čo v ostatných triedach, tesná horná hranica je k(n-1)+1. Ďalej ukážeme, že horná hranica n na nedeterministickú zložitosť operácie pozitívneho uzáveru v triede regulárnych jazykov je tesná vo všetkých uvažovaných triedach okrem tried faktorovo a podslovovo uzavretých jazykov, kde zložitosť má hodnotu jeden. Všetky naše najhoršie prípady sú popísané nad unárnou alebo binárnou abecedou. Navyše, vždy keď je na popis najhoršieho prípadu použitá binárna abeceda, je optimálna v tom zmysle, že zodpovedajúcu hornú hranicu nie je možné dosiahnuť jazykom nad unárnou abecedou. Najzaujímavejší výsledok je popis binárnych podslov uzavretého jazyka, ktorý dosahuje hornú hranicu kn pre k-tú mocninu.

 Skúma sa deterministická a nedeterministická stavová zložitosť štvorca, mocniny, pozitívneho uzáveru a doplnku na bezhviezdičkových jazykoch. Pre stavovú zložitosť štvorca dostávame netriviálnu hornú hranicu (n-1)2n - 2(n-2) a dolnú hranicu rádovo Θ(n2n). Pre stavovú zložitosť k-tej mocniny v unárnom prípade dostávame presnú hodnotu zložitosti k(n-1)+1. Ďalej ukazujeme, že horná hranica na nedeterministickú stavovú zložitosť k-tej mocniny, kn, sa dosahuje binárnymi bezhviezdičkovými jazykmi, zatiaľ čo v unárnom prípade máme dolnú hranicu k(n-1)+1. Pre pozitívny uzáver ukazujeme, že deterministická horná hranica 2n-1+2n-2-1, ako aj nedeterministická horná hranica n, sa dosahujú bezhviezdičkovými jazykmi. Tiež ukazujeme, že v unárnom prípade je stavová zložitosť pozitívneho uzáveru n2-7n+13 a nedeterministická stavová zložitosť doplnku je medzi (n-1)2+1 and n2-2.

 Spravila sa implementácia výpočtu optimalizačných úloh týkajúca sa prepravy plynu v plynovodoch na počítačovom klastri.

 Našli sme charakterizáciu rôznych typov simulability kvantových kanálov a meraní pomocou pravdepodobností úspechu v testovaní hypotéz (guessing games).

 Študovali sme pozorovateľné na špeciálnych typoch synaptických algebier a ich spektrálne rozklady.

 Definovali sme deterministické biautomaty a študovali sme 4 podtriedy lineárnych jazykov, ktoré sú rozpoznávané 4 špecifickými podtriedam deterministických biautomatov. Dostali sme viacero uzáverových vlastnosti, ktoré sme použili na riešenie rozhodnuteľnosti problémov týkajúcich sa týchto 4 tried.

 Dokázali sme, že veta Lovásza, Thomassena, Wua a Zhanga z roku 2013, že každý hranovo 6-suvislý graf je A-súvislý (kde A označuje Abelovskú grupu rádu 3), je ekvivalentná so silnejším tvrdením s tým, že dovolíme existenciu troch vrcholov, ktoré môžu byť separované hranovými rezmi rádu menej ako 6. Podobne dokazujeme ekvivalentnú verziu pre hypotézu Jaegera, Liniala, Payana, and Tarsiho z roku 1992, že každý hranovo 5-súvislý graf je A-súvislý.

 Odvodili sme explicitnú formulu pre Z2-kohomologickú dĺžku Stiefelových variet Vn,r pre všetky 1 ≤ r ≤ n-1, a pre projektívne Stiefelove variety Xn,r s n > 2r-1. Odvodzujeme aj niektoré čiastkové výsledky pre posledne menovaný prípad, keď n ≤ 2r-1 sú dané, ako aj niektoré relácie medzi týmito dvoma prípadmi.

 Skúmali dôsledky pre Lyusternikovu-Shnireľmanovu kategóriu.

 Boli dotiahnuté detaily v štúdiu štruktúrnej množiny S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium rho-invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. 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.

 Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny S(LxD) aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.

 Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórií chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranickeho formulácii tejto teórie pri vhodných voľbách.

 Bola dokázaná asymptotická kvadratická konvergencia sériového a paralelného blokového Jacobiho algoritmu pre výpočet SVD plných matíc s dynamickým usporiadaním subproblémov. Bolo navrhnuté nové predpodmienenie pre vyššie spomenutý algoritmus a boli analyzované numerické vlastnosti aplikácie predpodmienenia. Predpodmienený algoritmus je veľmi rýchly.

 Študovali sa informačno-teoretické a geometrické vlastnosti konečno-rozmerných konvexných efektových algebier a stavové priestory na týchto algebrách.

 Bola popísaná všeobecná metóda na vytvorenie generujúcej množiny agregačného klonu na konečnom zväze L. Popísaný postup je založený na rozšírení L-hodnotových kapacít (monotónnych L-hodnotových fuzzy mier). Je prezentovaných niekoľko generujúcich množín s ohľadom na aritu funkcií vystupujúcich v týchto množinách.

 Alternatívne čiastočne usporiadanie, tzv. spektrálne usporiadanie, je definované a skúmané na synaptickej algebre - zovšeobecnení samoadjungovanej časti von Neumannovej algebry.

 Je ukázané, že ak synaptická algebra je v norme úplná, tak v spektrálnom usporiadaní je Dedekindovo sigma-úplný zväz.

 Pre generalizované pseudoefektové algebry (GPEA) je definovaný nový typ kongruencie, tzv. R1-kongruencie, ktorý je v jedno-jednoznačnej korešpondencii s R1-ideálmi. Tieto kongruencie sú porovnané s Rieszovými kongruenciami, ktoré zodpovedajú Rieszovým ideálom. Je ukázané, že v nahor usmernenej GPEA obidva typy kongruencií sa zhodujú.

 V prehľadovom článku sú synaptické algebry predstavené ako modely kvantovej mechaniky. Pozornosť je venovaná hlavne stavom, pozorovateľným, a rozkladom na typy, podobné typom von Neumannových algebier.

 Každý Rosenthalov filter je prienikom konečného počtu Rosenthalovych ultrafiltrov navzájom neporovnateľných v Rudinovej-Keislerovom čiastočnom usporiadaní ultrafiltrov. Nasledujúce tvrdenie je konzistentné so ZFC: Existuje nespočítateľný systém ultrafiltrov taký, že prienik ľubovoľného konečného podsystému je Rosenthalov filter.

 Vypracovala sa analýza výpočtovej zložitosti inklúzie Strassenovho algoritmu do modifikácií metódy maticového násobenia.

 Analyzovala sa kalibrácia meradla nominálnej dĺžky 50 mm z technického doporučenia EA-4/02. V pôvodnom riešení sa našli chyby a prepočítala sa bilančná tabuľka neistôt. Porovnávali sa novo-získané riešenia získané podľa a) metrologickej normy GUM, b) Monte Carlo simulácií, c) metódy CFA (Characteristic Function Approach), ktorá je postavená na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. K analýze bolo potrebné sformulovať nové matematicko-štatistické výsledky.

 Etalóny plynných zmesí etanolu v dusíku sa pripravujú na Slovenskom metrologickom ústave pomocou gravimetrickej metódy. Etanol (kvapalná zložka) sa pridáva do špeciálnej fľaše vzduchotesnou injekčnou striekačkou. Množstvo pridanej kvapaliny sa určuje vážením striekačky. Pri určení hodnoty etalónu a jej neistoty boli aplikované rôzne metódy (metóda podľa GUM-u, metóda Monte Carlo a metóda CFA (Characteristic Function Approach).

 V matematicko-štatistických aplikáciách teórie merania je kalibrácia štandardný postup na stanovenie vzťahu medzi dvomi meracími prístrojmi (zariadeniami, metódami). Tento (teoretický, ideálny) vzťah je zaťažený neistotami merania oboch prístrojov. Sú to neistoty vyhodnocovania typu A aj typu B (podľa základného metrologického predpisu GUM). Kalibračná funkcia je odhadovaná z kalibračného experimentu. Táto je v ďalšom požitá na predikciu neobservovateľnej hodnoty na etalóne a jej neistoty podľa indikácie (nameranej hodnoty) na kalibrovanom prístroji. Zhrnuli sa doterajšie výsledky v danej oblasti lineárnej a polynomickej komparatívnej kalibrácie a vyvstal prirodzený problém použitia inverzného vzťahu pri modelovaní kalibračnej krivky, keď sa zamení štandardný vzťah medzi meraniami na etalóne a na kalibrovanom prístroji.

 Nízkolegované ocele sa často používajú v priemysle kvôli ich lepším mechanickým vlastnostiam než majú nelegované alebo vysokolegované ocele. Veľký vplyv na ich vlastnosti má hlavne chemické zloženie a metalurgické a tepelné spracovanie. Ocele zvyčajne majú najlepšie vlastnosti pri bežnej teplote a s poklesom okolitej teploty sa stávajú krehkými. Nízkolegované ocele s úpravou ich chemického zloženia je možné použiť pri teplotách do -40 ° C. Bežne používané nízko legované ocele majú chemické zloženie stopových prvkov, ktoré sa môže v definovanom rozsahu zmeniť. Je veľmi dôležité správne a presne určiť jednotlivé prvky pridané do ocelí. V tejto práci sme sa zamerali na určenie dvoch legovacích prvkov, menovite uhlíka a síry, ktoré patria k najdôležitejším legujúcim prvkom. Uhlík sa zvyčajne určuje coulometrickou a spektrometrickou metódou, ako aj tepelnou vodivosťou. Síra sa zvyčajne určuje titračnou a spektrometrickou metódou. Certifikované referenčné materiály s obsahom uhlíka a síry v oceli je možné použiť na kalibráciu meracích zariadení pre nízkolegované ocele. Tieto certifikované referenčné materiály majú dlhodobú stabilitu, ktorá sa kontroluje každých 10 rokov. Demonštroval sa praktický príklad kontroly stability 3 certifikovaných referenčných materiálov ocele s prímesami uhlíka a síry.

 Analyzoval sa model dvojrozmernej komparatívnej kalibrácie. Je to model, v ktorom dvojrozmerné merania indikované dvomi meracími prístrojmi (zariadeniami) majú normálne rozdelené chyby merania. Model sa replikuje. Z hľadiska matematickej štatistiky ide o mnohorozmerný lineárny regresný model s nelineárnymi podmienkami na parametre. Po vhodnej linearizácii môže byť tento model reprezentovaný ako lineárny model merania s podmienkami typu II na parametre. Navrhol sa iteratívny algoritmus pre optimálny odhad parametrov tohto modelu. Tiež sa vyriešil problém popisu aproximatívnej konfidenčnej oblasti pre vektor parametrov kalibračnej funkcie ako aj popis konfidenčnej oblasti pre lineárny funkcionál týchto parametrov. Riešenie je založené na metóde navrhnutej Kenwardom a Rogerom.

 Vychádza sa z toho, že kalibračný experiment poskytuje priame merania stanovené tzv. state-of-knowledge distribúciou podľa najnovších poznatkov metrológa, odvodenou pomocou metód hodnotenia neistôt typu A a typu B. V klasickom usporiadaní založenom na použití inverznej predikcie vyžaduje prístup metódou Monte Carlo simulácií určenie koreňa kalibračnej funkcie v každom simulačnom kroku, čo môže byť výpočtovo veľmi náročná úloha. Vyvoláva to prirodzenú otázku o možnosti použitia inverzného vzťahu pri modelovaní kalibračnej funkcie zmenou štandardných úloh stimulu a odozvy. Tiež to vedie k počítačovo jednoduchšej priamej predikcii. Skúmal sa účinok použitia inverzného vzťahu pri modelovaní kalibračnej funkcie, t.j. zmenou štandardných úloh stimulu a odozvy v uvažovanej kalibračnej funkcii.

 V polynomickom modeli komparatívnej kalibrácie s normálne rozdelenými chybami merania u etalónu aj u kalibrovaného meradla sa analyzovali dve rôzne cesty (možnosti) získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou aproximácie navrhnutej Kenwardom a Rogerom. Tieto dve konfidenčné oblasti sa porovnávali pomocou simulačnej štúdie. Výsledky simulácií ukazujú, že obe konfidenčné oblasti sa správajú prakticky rovnako.

**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 2019

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2019** | | | | **Počet doktorandov po doktorandskej skúške** | | **Počet ukončených doktorantúr v r. 2019** | | | | | |
| **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Denná zo zdrojov SAV** | 3 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 3 | 3 | 2 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| **Súhrn** | 6 | | 2 | | 5 | | 2 | | 0 | | 0 | |

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.   
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.*

**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 2019 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** |
| Ing. Michal Hospodár | interné štúdium hradené z prostriedkov SAV | 9 / 2015 | 8 / 2019 | 9.1.9 aplikovaná matematika | RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach | Fakulta matematiky, fyziky a informatiky UK |
| RNDr. Martin Plávala | interné štúdium hradené z prostriedkov SAV | 9 / 2015 | 8 / 2019 | 9.1.9 aplikovaná matematika | Mgr. Anna Jenčová DrSc., Matematický ústav SAV | Fakulta matematiky, fyziky a informatiky UK |

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)** | **z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)** | **z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu** | **z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu** | **z toho koľkí boli nejaký čas nezamestnaní** |
| 2 | 2 | 0 | 0 | 0 |

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

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

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

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

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

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

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

Tabuľka 3h 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. Nataliya Dilna, PhD. (IIa) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) | Mgr. Anna Jenčová, DrSc. (I) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | RNDr. Stanislav Jakubec, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králové, ČR) | doc. Mgr. Ján Karabáš, PhD. (IIa) |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK) | Ing. Michal Hospodár, PhD. (PhD., 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) | RNDr. Martin Plávala, PhD. (PhD., 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) |  |

Tabuľka 3h (pokračovanie) 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. Roman Frič, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB) |  |
| doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) |  |  |
| doc. RNDr. Ferdinand Chovanec, CSc. (pravdepodobnosť a matematická štatistika) |  |  |
| prof. RNDr. Július Korbaš, CSc. (geometria a topológia) |  |  |
| doc. RNDr. Karol Nemoga, CSc. (aplikovaná informatika) |  |  |
| doc. RNDr. Miroslav Repický, CSc. (informatika) |  |  |
| doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (kvantitatívne metódy v ekonómii) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |

**3.8. Údaje o pedagogickej činnosti**   
   
Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 8 | 2 | 6 | 1 |
| **Celkový počet hodín v r. 2019** | 501 | 183 | 609 | 30 |

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

Tabuľka 3j Aktivity pracovníkov na VŠ

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

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

**4. Medzinárodná vedecká spolupráca**

**4.1. Medzinárodné vedecké podujatia**

**4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2019 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
21. medzinárodna konferencia Popisná zložitosť formálnych systémov (DCFS 2019), Košice, 17.07.-19.07.2019

24. medzinárodná konferencia Implementácia a aplikácia automatov (CIAA 2019), Košice, 22.07.-25.07.2019

24th Central European Number Theory Conference, Univerzita J. Selyeho, Komárno, 70 účastníkov, 01.09.-06.09.2019

33rd International Summer Conference on Real Functions Theory, Ustka, Poľsko, 40 účastníkov, 08.09.-13.09.2019

Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský, Košice, 09.09.-13.09.2019

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
58th Summer School on General Algebra and Ordered Sets (SSAOS 2020)/58. Letná škola z algebry a usporiadaných množín (SSAOS 2020), Smižany, 30.08.-05.09.2020, (Jozef Pócs, 055/ 622 82 91, pocs@saske.sk)

34th International Summer Conference on Real Functions Theory / 34. Medzinárodná letná konferencia z teórie reálnych funkcií, Stará Lesná, 06.09.-11.09.2020,   
(Ľubica Holá – chair, 02 / 57 510 502, lubica.hola@mat.savba.sk, Peter Eliaš, 055/ 234 2202, [elias@saske.sk](mailto:elias@saske.sk), Roman Frič, 055/ 622 82 91, [fric@saske.sk](mailto:fric@saske.sk), Branislav Novotný, 02 / 57 510 413, branislav.novotny@mat.savba.sk)

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

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Meno pracovníka** | **Programový** | **Organizačný** | **Programový i organizačný** |
| Borsík Ján | 1 | 0 | 0 |
| Eliaš Peter | 0 | 1 | 0 |
| Frič Roman | 1 | 0 | 0 |
| Hospodár Michal | 0 | 2 | 0 |
| Jirásková Galina | 0 | 0 | 2 |
| Krajňáková Ivana | 0 | 2 | 0 |
| Mlynárčik Peter | 0 | 2 | 0 |
| Nemoga Karol | 3 | 0 | 0 |
| Palmovský Matúš | 0 | 2 | 0 |
| Pócs Jozef | 0 | 1 | 0 |
| Repický Miroslav | 0 | 1 | 0 |
| Vajteršic Marian | 1 | 0 | 1 |
| **Spolu** | 4 | 11 | 3 |

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

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

RNDr. Katarína Čunderlíková, PhD.

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

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)

International Quantum Structure Association (funkcia: člen výboru)

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)

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

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

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

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Kochol Martin | GAUK | 1 |
| Nemoga Karol | NATO ISEG, NATO SPS Programme | 21 |

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

E. Plávalová spolupracovala v skupine Exoplanet Group s Astronomickým ústavom AV ČR v Ondřejove, ČR. Zoznam všetkých členov skupiny je na stránke:

<http://stelweb.asu.cas.cz/exogroup/en_members.html>.

K. Čunderlíková bola v rámci MAD medzi SAV a PAN na Systems Research Institute, Polish Academy of Sciences a na konferencii IWIFSGN 2019, kde nadviazala vedeckú spoluprácu s Dr. Piotrom Dworniczakom z poľskej univerzity v Środe Wielkopolskej a s pracovníkom SRI PAS doc. Piotrom Nowakom.

E. Halušková v rámci bilaterálnej dohody medzi MŠVVŠ SR a Ministerstvom vedy a vyššieho vzdelávania Poľskej republiky bola 27 dní na Institute of Mathematics of Siedlce University of Natural Sciences and Humanities, Siedlce, Poľsko. Cieľom bolo aplikovať jej výsledky a skúsenosti ohľadom limitných konštrukcií univerzálnych algebier a monounárnych algebier do okruhov. Tento cieľ ohľadom konštrukcie direktnej limity bol splnený. Rozpracovanie duálnej konštrukcie, konštrukcie inverznej limity sa z časových dôvodov ukázalo ako nereálne.

G. Okša sa v Salzburgu zúčastnil prípravy projektu Slovensko-Rakúsko-Japonsko v oblasti numerickej lineárnej algebry týkajúceho sa výskumnej činnosti v oblasti konvergencie Jacobiho metódy.

Projekt bol v októbri 2019 schválený v Japonsku a Oddelenie informatiky MÚ SAV (riešitelia M. Bečka, G.Okša) je jeho súčasťou:

1. Názov projektu: Development of the next-generation eigenvalue/singular value decomposition library with high scalability and high accuracy

2. Časové obdobie: 10/2019 – 03/2023 (3,5 roka)

3. Grantová agentúra: Japan Society for the Promotion of Science

4. Vedúci projektu: Prof. Yusaku Yamamoto, Dept. of Communication Engineering and Informatics, University of Electro-Communications, Tokyo, Japan

M. Plávala nadviazal počas konferencie v Lone (Works hop GPT & QIT) spoluprácu s Guillaume Aubrun a Ludovico Lami ohľadom vyriešenia otvorenej otázky ohľadom tenzorových súčinov kužeľov. Tento problém bol otvorený už takmer 50 rokov. Vďaka tomu, že sa autori mohli osobne stretnúť a nadviazať spoluprácu, sa ho podarilo vyriešiť.

M. Plávala pri návšteve v Pavii v januári 2019 mal možnosť sa stretnúť a diskutovať o kategoriálnej formulácii nekauzálnych teórii, z ktorej vznikol nápad na prístup k danej problematike pomocou konvexnej geometrie. Tento prístup sa začal rozvíjať na Matematickom ústave a jeho rozvoj bol zaradený ako úloha do žiadosti o nový VEGA grant.

Matematický ústav SAV bol spoluriešiteľom projektu ERACoSysMed (2nd Joint Transnational Call for European Projects on Systems Medicine), spoluriešiteľské organizácie sú zo Španielska, Rakúska, Slovinska, Veľkej Británie, Nórska, Belgicka, Holandska, Luxemburska, Talianska, Izraela, Francúzska a Nemecka. Spolu 13 tímov, z Belgicka dva. Vedúcim za MÚ SAV je B. Novotný (ďalší riešiteľ za MÚ SAV P. Bokes). Projekt je financovaný SAV za spoluúčasti ústavu. Trvanie projektu 1. 7. 2018 – 30. 6. 2021.

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

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

**5. Koncepcia dlhodobého rozvoja organizácie**

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

Odporúčania Medzinárodného panelu.

 Zriadiť medzinárodný poradný panel.

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

 Posilniť zložku postdoktorandov na ústave.

 Pracovať ďalej na vyváženosti pomeru žien na pracovisku.

 Posilniť aktivity smerom ku účasti študentov na ústave.

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

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

Akčný plán bol zameraný na všetky oblasti, ktoré postihoval Akčný plán SAV. Určuje hlavné zameranie ústavu vo všetkých smeroch jeho činnosti.

 Doktorandské štúdium

 Spolupráca s VŠ

 Diverzita pracovníkov

 Projektová aktivita, medzinárodné projekty

 Medziakademická spolupráca

 Strategické zameranie

 Multidisciplinárny výskum

 Strategické formovanie ústavu

 Pomenovanie ústavu

 Publikačné prostredie

 Publikovanie vlastných výsledkov

 Vydávanie časopisov

 Problematika duševného vlastníctva

 Rozpočet pracoviska

 Manažment a infraštruktúra pracoviska

Akčný plán je každoročne prehodnocovaný a aktualizovaný pred výročným seminárom 1. Oddelenia vied SAV.

V roku 2019 sme urobili niekoľko výrazných krokov v jeho plnení:

 Prijali sme dvoch postdoktorandov, úspešných absolventov PhD štúdia na Matematickom ústave SAV v roku 2019.

 Prijali sme dvoch ďalších študentov doktorandského štúdia.

 Zrealizovali sme výberové konanie na obsadenie miesta vedeckého pracovníka pre oblasť matematickej štatistiky. Víťaz konkurzu – mladý docent nastúpil 1.1. 2020.

 S Výskumnou agentúrou sme podpísali dve zmluvy na realizáciu projektov Operačného programu Výskum a inovácie v hodnote cca 2 milióny EUR.

 Podali sme jeden projekt Operačného programu Výskum a inovácie, spolu s ďalšími 9 pracoviskami, ako hlavný riešiteľ. Hodnota projektu je asi 8 miliónov EUR.

 Zriadili sme medzinárodný poradný panel Matematického ústavu SAV.

Týmito krokmi sme plnili odporúčania akreditačného panelu smerom ku omladeniu ústavu, posilneniu počtu postdoktorandov a zvýšeniu počtu doktorandov. Rozšírili sme spoluprácu o ďalšie atraktívne smery, ako nám bolo odporúčané. Súčasne sme rozšírenie spolupráce zamerali na získavanie ďalších mimorozpočtových zdrojov, čo umožní ďalšie zvýšenie počtu mladých pracovníkov.

**5.3. Aktualizácia Akčného plánu organizácie v roku 2019**

Aktualizácia akčného plánu na rok 2019 nebola výrazná. Podstatnou úlohou bolo plnenie existujúceho plánu. Stav plnenia viď bod 5.2. Medzinárodný poradný panel Matematického ústavu SAV má nasledujúce zloženie:

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

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

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

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

**6.1. Spoločné pracoviská organizácie**

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

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

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

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

**Začiatok spolupráce:** 2000

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

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

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

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

**Začiatok spolupráce:** 1990

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

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

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

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

**Začiatok spolupráce:** 2001

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

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

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

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

**Začiatok spolupráce:** 1999

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

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

**Oblasť spolupráce:** numerická analýza, algoritmy

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

**Začiatok spolupráce:** 2011

**Zhodnotenie:** pedagogická činnosť

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

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

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

**Začiatok spolupráce:** 2002

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

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

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

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

**Začiatok spolupráce:** 2002

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

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

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

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

**Začiatok spolupráce:** 2002

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

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

**Oblasť spolupráce:** pedagogika a výskum

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

**Začiatok spolupráce:** 2002

**Zhodnotenie:** Prednášky a výchova študentov.

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

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

Pozri 6.1.3.

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

**6.1.3. Spoločné pracoviská s VŠ/fakultami a inými organizáciami SAV**

**Názvy organizácií:** Fakulta prírodných vied UMB / Ústav vied o Zemi SAV / Ústav Informatiky SAV / Centrum biológie rastlín a biodiverzity SAV, Botanický ústav SAV

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

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

**Začiatok spolupráce:** 2019

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

**Názvy organizácií:** Fakulta zdravotníctva a sociálnej práce, Trnavská univerzita, Trnava / Slovenská technická univerzita, Bratislava / Ústav merania SAV / BMC SAV

**Oblasť spolupráce:** spoločný vedecko-výskumný grant

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

**Začiatok spolupráce:** 2019

**Zhodnotenie:** Matematický ústav SAV v roku 2019 uzavrel zmluvu o budúcej zmluve o zriadení spoločného pracoviska s Trnavskou univerzitou v Trnave, Fakultou zdravotníctva a sociálnej práce. Ďalší účastníci budú aj STU, Ústav merania SAV a BMC SAV. Aj s týmito účastníkmi boli uzavreté zmluvy.

Predmetom zmluvy je budúce zriadenie spoločného pracoviska, so sídlom na Fakulte zdravotníctva a sociálne práce, Trnavská univerzita, Trnava, na realizáciu spoločných výskumných a odborných aktivít pri realizácii projektu “Inteligentné technológie na manažment zdravotného stavu rizikovej skupiny tehotných žien“, ktorý je uvedený v časti 2.2.3.

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

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

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

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

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

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** MO SR

**Koordinátora projektu:**

**Začiatok spolupráce:** 2013

**Koniec spolupráce:** trvá

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

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

**6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV**

**7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi**

**7.1. Výsledky výskumu organizácie aplikované v praxi**

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

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

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

Začiatok spolupráce: 2004

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

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

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

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

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Názov orgánu** | **Funkcia** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. | Pracovná skupina 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 | 3 | TV | 1 |
| rozhlas | 0 | internet | 7 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 1 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9b Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| Globálne riziká, problémy a riešenia v prvej polovici 21. storočia | domáca | pavilón QUTE, FÚ SAV, Patrónka, Bratislava | 19.06.-19.06.2019 | 50 |
| 21. medzinárodná konferencia Popisná zložitosť formálnych systémov (DCFS 2019) | medzinárodná | Košice | 17.07.-19.07.2019 | 36 |
| 24. medzinárodná konferencia Implementácia a aplikácia automatov (CIAA 2019) | medzinárodná | Košice | 22.07.-25.07.2019 | 43 |
| 24th Central European Number Theory Conference | medzinárodná | Univerzita J. Selyeho, Komárno | 01.09.-06.09.2019 | 70 |
| 33rd International Summer Conference of Real Functions Theory | medzinárodná | Ustka, Poľsko | 08.09-13.09.2019 | 40 |
| Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský | medzinárodná | Košice | 09.09.-13.09.2019 | 70 |

**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)

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

Mathematica Slovaca (funkcia: výkonný editor)

Military and Science (funkcia: člen redakčnej rady)

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

Soft Computing (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

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: editor)

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)

RNDr. Jozef Pócs, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

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)

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Marian Vajteršic, DrSc.

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

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

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

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

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

prof. RNDr. Gejza Wimmer, DrSc.

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. Marian Vajteršic, DrSc.

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

Humboldtov klub v SR (funkcia: člen)

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

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

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

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** | | 26 901 |
| z toho | knihy a zviazané periodiká | 26 901 |
| 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 | | 97 |
| v tom | kúpou | 1 |
| darom | 6 |
| 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)** | | 69 |
| v tom z r. 1 | prezenčné výpožičky | 27 |
| absenčné výpožičky | 42 |
| v tom z r. 1 | odborná literatúra pre dospelých | 66 |
| výpožičky periodík | 3 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 40 |

**10.3. Používatelia**

Tabuľka 10c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 25 |

**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 € | 292,90 |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2019 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)

- Komisia SAV pre rovnosť príležitostí (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

- Komisia SAV pre 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 organizácie**

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2019 v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ organizácie** (RO,PO) |  | **Zdroje, z ktorých sa kryli jednotlivé výdavky** | | | |
| **Výdavky** | **Spolu** | **kapitola SAV (111)** | **iné štátne a verejné zdroje** | **ostatné zdroje** | **% krytia z kapitoly SAV** |
| **1. Bežné výdavky** | 1 269 437,40 | 1 179 274,43 | 90 162,97 |  | 92,90 |
| z toho: mzdy (610) | 759 036,59 | 740 656,59 | 18 380 |  | 97,58 |
| vedecká výchova štipendiá (640) | 47 823 | 47 823 |  |  | 100 |
| poistné a príspevok do poisťovní (620) | 253 204,56 | 246 921,61 | 6282,95 |  | 97,52 |
| tovary a služby (630) | 195 389,83 | 133 641,81 | 61 748,02 |  | 68,40 |
| transfery partnerom projektov (640) | 6152 |  | 6152 |  |  |
| **2. Kapitálové výdavky** |  |  |  |  |  |
| z toho: obstarávanie kapitálových aktív | 5 989,69 | 5 989,69 |  |  | 100 |
| kapitálové transfery |  |  |  |  |  |

**12.2. Zdroje financovania organizácie**

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ organizácie** (RO,PO) |  | **Z toho kategórie** | | | |
| **Zdroje** | **Spolu** | **Kapitálové zdroje** | **zdroje na mzdy (610)** | **zdroje na odvody do poisťovní (620)** | **zdroje na transfery partnerom projektov** |
| **1. kapitola SAV (111)** | 1 179 274,43 | 5 989,69 | 740 656,59 | 246 921,61 |  |
| z toho: VEGA | 61 828 |  |  |  |  |
| MVTS výskumné projekty | 196 989,69 | 5 989,69 |  | 867,36 |  |
| MVTS podpora | 5135 |  |  |  |  |
| SASPRO/MOREPRO | 1 407,60 |  |  |  |  |
| Vydávanie časopisov | 25 339 |  |  | 501,41 |  |
| Vedecká výchova (štipendiá) | 47 823 |  |  |  |  |
| OTAS (630) | 19 942,52 |  |  |  |  |
| **2. ŠF EÚ vr. fin. zo ŠR** |  |  |  |  |  |
| **3. medzinárodné grantové projekty** |  |  |  |  |  |
| z toho: H2020 |  |  |  |  |  |
| **4. iné štátne a verejné zdroje (spolu)** | 90 162,97 |  |  |  |  |
| z toho: APVV | 75 242,81 |  | 17 280 | 5 898,50 | 6152 |
| podpora z kapitoly MŠVVaŠ SR (stimuly) |  |  |  |  |  |
| **5. ostatné zdroje** | 14 920,16 |  |  |  |  |
| z toho: príjmy z prenájmu |  |  |  |  |  |
| príjmy z podnikateľskej činnosti |  |  |  |  |  |
| príjmy z expertnej činnosti a služieb | 14 920,16 |  |  |  |  |

**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. V roku 2019 neprebehla žiadna obhajoba v tejto komisii. V roku 2020 predpokladáme podanie jednej doktorskej práce z radov pracovníkov ústavu.

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 (2007 - 2014) v spolupráci so spoločnosťou Versita, od roku 2015 spoločnosť De Gruyter, ktorá prevzala/zakúpila spoločnosť Versita.. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

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

Vyše 75 % prác je zamietnutých (z viac ako 550 zaslaných). V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2018)=0,490, päťročný impakt faktor 0,488 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,279 (Scimago Journal Ranking) a je v 3. kvartile.

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

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

alebo

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

Adresa časopisu na stránkach spoločnosti Versita bola

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

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

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

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

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

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

Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. Doteraz vyšlo 74 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 0,226 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 ako Open Access aj spoločnosťou De Gruyter Sciendo s WEB stránkou <http://www.degruyter.com/view/j/tmmp>.

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2019 vyšiel 14. 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 Computing and Informatics. 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 2019**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**Dvurečenskij Anatolij**

Zlatú medailu SAV za celoživotné dielo

*Oceňovateľ: SAV*

**Pulmannová Sylvia**

Medaila SAV za podporu vedy

*Oceňovateľ: SAV*

**15.1.2. Iné domáce ocenenia**

**Dvurečenskij Anatolij**

Zlatá medaila FMFI UK

*Oceňovateľ: FMFI UK*

**Nemoga Karol**

Pamätná medaila k 25. výročiu založenia Vojenského spravodajstva

*Oceňovateľ: Minister Obrany SR (rozkazom)*

**Nemoga Karol**

Vecný dar k 25. výročiu založenia Vojenského spravodajstva

*Oceňovateľ: Riaditeľ Vojenského spravodajstva*

**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.

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| **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 2019 došlo ku rastu celkových výdavkov Matematického ústavu SAV o 12,71 oproti 7,58% a 0,2% v predchádzajúcich rokoch. V rozpočtových výdavkoch došlo ku nárastu o 14,28 % oproti 4,9 % v predchádzajúcom roku. V oblasti miezd sme zaznamenali rast o 18,67 % oproti predchádzajúcemu roku, keď bol nárast 7,26%. Tieto rasty za posledné dva roky mali dve príčiny

 valorizácia miezd o 10 %,

 prvenstvo vo výkonovom financovaní SAV, kde v roku 2019 sme získali viac ako 30 tisíc EUR,

 financovanie jednej pracovníčky THS z KTG 630,

 zvýšené mimorozpočtové prostriedky z APVV.

V tovaroch a službách sme zaznamenali pokles o 8,47 oproti nárastu o 13,7 % v minulom roku, ktorý bol spôsobený financovaním jednej pracovníčky THS z KTG 630 a nižšími prostriedkami v APVV.

V APVV sme zaznamenali pokles o 12,34 %, oproti nárastu 66,7 % v predchádzajúcom roku. V APVV je určitá dynamika spôsobená nabiehaním rôznych projektov. Máme snahu o zvýšenie počtu APVV projektov a podali sme ďalších 5.

V projektoch VEGA sme zaznamenali ďalší pokles o 11,72 % (predtým pokles o 2.2 %), ktorý bol spôsobený ďalším znížením kapacity riešiteľov. V roku 2020 bude počet pracovníkov vyšší o 3 pracovníkov, počet doktorandov je rovnaký.

Z finančného hľadiska bol rok 2019 veľmi úspešný, hlavne v oblasti miezd (+18,67 %). V tovarových výdavkoch sme zaznamenali pokles (KTG 630) a v súčasnosti už personálne výdavky, okrem štipendií, tvoria 79,74 % rozpočtu oproti 76,89 % v minulom roku. Tento pokles je stály a veľmi negatívny.

Prechod ústavov na VVI nebol v roku 2019 aktuálny vzhľadom na legislatívne pravidlá. To znamenalo ušetrenie administratívnej náročnosti našej práce. Práca na troch projektoch s Výskumnou agentúrou znamenala zase razantný nárast.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám. V roku 2019, po skončení európskeho projektu, už bolo nevyhnutné financovať prístup ku literatúre z rozpočtu SAV.

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 aj vzhľadom na problematiku otvoreného prístupu ku poznatkom získaných z verejných zdrojov.

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

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| **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 31.12.2019**

**Zoznam zamestnancov podľa štruktúry**

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|  | **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 | 0.50 |
| 6. | [Mgr. Anna Jenčová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380) | 100 | 1.00 |
| 7. | [prof. RNDr. Roman Nedela, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5699) | 45 | 0.45 |
| 8. | [doc. RNDr. Sylvia Pulmannová, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2386) | 100 | 1.00 |
| 9. | [doc. RNDr. Oto Strauch, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2389) | 100 | 1.00 |
| 10. | [prof. RNDr. Marian Vajteršic, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5725) | 100 | 0.00 |
| 11. | [prof. RNDr. Gejza Wimmer, DrSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6723) | 60 | 0.47 |
| **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. | [Mgr. Nataliya Dilna, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7075) | 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. | [RNDr. Galina Jirásková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5691) | 100 | 1.00 |
| 7. | [doc. Mgr. Ján Karabáš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5693) | 11 | 0.11 |
| 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. | [RNDr. Jozef Pócs, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5704) | 100 | 1.00 |
| 12. | [doc. RNDr. Milan Paštéka, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6691) | 3 | 0.03 |
| 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 | 0.07 |

**Zoznam zamestnancov podľa štruktúry (pokračovanie)**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Úväzok  (v %)** | **Ročný prepočítaný úväzok** |
| **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 | 0.13 |
| 3. | [RNDr. Katarína Čunderlíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11192) | 3 | 0.03 |
| 4. | [RNDr. Vladimír Dančík, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6710) | 100 | 0.00 |
| 5. | [RNDr. Peter Eliaš, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5682) | 100 | 1.00 |
| 6. | [Mgr. Štefan Gyürki, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10596) | 5 | 0.05 |
| 7. | [doc. RNDr. Rudolf Hajossy, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6702) | 32 | 0.32 |
| 8. | [RNDr. Emília Halušková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5688) | 100 | 1.00 |
| 9. | [Ing. Michal Hospodár, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10212) | 100 | 0.33 |
| 10. | [Mgr. Marek Hyčko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) | 100 | 1.00 |
| 11. | [Mgr. Marek Košta, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11195) | 100 | 0.00 |
| 12. | [Mgr. Tibor Macko, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5697) | 25 | 0.25 |
| 13. | [RNDr. Alžbeta Michalíková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11193) | 3 | 0.03 |
| 14. | [Mgr. Peter Mlynárčik, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9397) | 3 | 0.03 |
| 15. | [Ing. Igor Mračka, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7987) | 100 | 1.00 |
| 16. | [Mgr. Branislav Novotný, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5700) | 100 | 1.00 |
| 17. | [Mgr. Matúš Palmovský, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9398) | 3 | 0.03 |
| 18. | [doc. PaedDr. Martin Papčo, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8050) | 5 | 0.05 |
| 19. | [RNDr. Martin Plávala, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10048) | 100 | 0.33 |
| 20. | [Mgr. Eva Plávalová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11194) | 3 | 0.03 |
| 21. | [Mgr. Ladislav Stacho, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5714) | 100 | 0.00 |
| 22. | [doc. Ondrej Šuch, PhD., M.Sc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5716) | 25 | 0.25 |
| 23. | [Mgr. Elena Vinceková, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5727) | 100 | 1.00 |
| 24. | [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. | [Mgr. Dušana Babicová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10595) | 3 | 0.00 |
| 2. | [Ing. Ferdinand Čapka](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11918) | 3 | 0.00 |
| 3. | [Mgr. Ing. Jean Rosemond Dora](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11086) | 100 | 0.04 |
| 4. | [RNDr. Dana Kákošová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11784) | 100 | 0.58 |
| 5. | [Mgr. Ivana Krajňáková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10594) | 3 | 0.00 |

**Zoznam zamestnancov podľa štruktúry (pokračovanie)**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Úväzok  (v %)** | **Ročný prepočítaný úväzok** |
| 6. | [Zuzana Kvapilová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11783) | 100 | 0.41 |
| 7. | [Mgr. Ján Kysel](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11616) | 100 | 1.00 |
| 8. | [RNDr. Alexandra Mojžišová, PhD.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11198) | 100 | 1.00 |
| 9. | [Ing.arch. Terézia Sedláková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6653) | 59 | 0.00 |
| 10. | [Ing. Peter Sýs](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11919) | 3 | 0.00 |
| **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. | [Katarína Nagyová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6694) | 60 | 0.60 |
| 6. | [Eugénia Ondrušková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2374) | 100 | 1.00 |
| 7. | [Bc. Henrieta Paľová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6720) | 24 | 0.24 |
| 8. | [Ing. Daniel Solčiansky](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11197) | 60 | 0.60 |
| 9. | [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 | 1.00 |

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

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|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Ján Borsík, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5675) | 6.9.2019 | 0.68 |
| 2. | [doc. RNDr. Miroslav Ploščica, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5702) | 31.1.2019 | 0.02 |
| **Vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Ferdinand Chovanec, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6700) | 15.12.2019 | 0.03 |
| 2. | [doc. RNDr. Mária Jurečková, CSc.](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6699) | 30.9.2019 | 0.02 |
| **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) | 30.6.2019 | 0.20 |
| 2. | [Mgr. Katarína Pastorková](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10167) | 30.4.2019 | 0.33 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Andrea Surová](https://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6688) | 31.5.2019 | 0.42 |

**Zoznam doktorandov**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **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. | Ing. Ferdinand Čapka | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Mgr. Jean Rosemond Dora | 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. | Ing. Peter Sýs | 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.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum obhajoby** | **Dátum prijatia** | **Úväzok  (v %)** |
| 1. | Ing. Michal Hospodár, PhD. | 22.8.2019 | 1.9.2019 | 100 |
| 2. | RNDr. Martin Plávala, PhD. | 26.8.2019 | 1.9.2019 | 100 |

**Zoznam emeritných vedeckých zamestnancov**

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

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

**Medzinárodné projekty**

**Programy: Medziakademická dohoda (MAD)**

**1.) Matematické modely neurčitosti a ich aplikácie** *(Mathematical models of uncertainty and their applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Alžbeta Michalíková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2021 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*

1. ČUNDERLÍKOVÁ, Katarína. Connection between interval-valued observables and intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 1, p. 32-42. ISSN 1310-4926.

2. ČUNDERLÍKOVÁ, Katarína. m-almost everywhere convergence of intuitionistic fuzzy observables induced by Borel measurable function. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 29-40. ISSN 1310-4926.

3. ČUNDERLÍKOVÁ, Katarína. Two theorems from extreme value theory for interval valued events. In Atlantis Studies in Uncertainty Modelling. - Atlantis Press, 2019. ISSN 2589-6644.

4. MICHALÍKOVÁ, Alžbeta. Intuitionistic fuzzy sets and their use in image classification. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 60-66. ISSN 1310-4926.

**Programy: ERANET**

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

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Branislav Novotný |
| **Trvanie projektu:** | 1.6.2018 / 31.5.2021 |
| **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, Slovensko: 0, Slovinsko: 1 |
| **Čerpané financie:** | ERA.NET: 19990 € |

*Dosiahnuté výsledky:*

Výskumný tím navštívil v dňoch 16. - 27. júla 2019 projektových partnerov so sídlom v Biodonostia HRI v San Sebastiáne. V úzkej spolupráci so španielskými partnermi vyvinul výskumný tím novú metódu integrácie transkripčných dát buniek pokožky založenú na transformácii inšpirovanej fuzzy logikou. Bolo napísaných množstvo dátovo analytických Pythónovských skriptov ako aj interný report s podrobnou metodikou, a tieto boli zdielané s projektovými partnermi. Výskumný tím publikoval niektoré zo svojich výsledkov na vedeckých konferenciách [1,2].   
   
[1] P. Bokes, B. Novotný et al., Analysing skin cell gene expression data (2019), 51. konferencia Slovenských matematikov (KSM), Jasná pod Chopkom, p. 21.   
   
[2] P. Bokes, A. Singh, Noise induced bimodality in genetic circuits with monostable positive feedback (2019), 18th European Control Conference (ECC), Neapol, Taliansko, 698-703

**Domáce projekty**

**Programy: VEGA**

**1.) 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: 4361 € |

*Dosiahnuté výsledky:*

1. S. Dobrev, L. Narayanan, J. Opatrny, D. Pankratov, Exploration of high-dimensional grids by finite automata, ICALP 2019, Art. No. 139, pp. 139:1-139:16.  
https://doi.org/10.4230/LIPIcs.ICALP.2019.139

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

|  |  |
| --- | --- |
| **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: 8287 € |

*Dosiahnuté výsledky:*

1. DANCA, Marius-F. - FEČKAN, Michal. Hidden chaotic attractors and chaos suppression in an impulsive discrete economical supply and demand dynamical system. In Communications in nonlinear science and numerical simulation, 2019, vol. 74, p. 1-13. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S1007570419300760>.

2. DILNA, Nataliya - FEČKAN, Michal - SOLOVYOV, Mykola - WANG, JinRong. Symmetric nonlinear functional differential equations at resonance. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.

3. FEČKAN, Michal - MARYNETS, Kateryna - WANG, JinRong. Periodic boundary value problems for higher-order fractinal differential systems. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3616-3632. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.

4. FEČKAN, Michal - WANG, JinRong. Periodic impulsive fractional differential equations. In Advances in Nonlinear Analysis, 2019, vol. 8, no. 1, p. 482-496. (2018: 6.636 - IF, Q1 - JCR, 3.215 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2191-9496.

5. FEČKAN, Michal - POSPÍŠIL, Michal - WANG, JinRong. Note on weakly fractional differential equations. In Advances in Difference Equations, 2019, vol. 143, p. [1-11]. (2018: 1.510 - IF, Q1 - JCR, 0.525 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1687-1839. Dostupné na internete: <https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-019-2086-4>.

6. FRANCA, M. - POSPÍŠIL, Michal. New global bifurcation diagrams for piecewise smooth systems: Transversality of homoclinic points does not imply chaos. In Journal of Differential Equations, 2019, vol. 266, no. 2-3, p. 1429-1461. (2018: 1.938 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0396.

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8. LUO, Dahui - WANG, JinRong - SHEN, Dong - FEČKAN, Michal. Iterative learning control for fractional-order multi-agent systems. In Journal of The Franklin Institute, 2019, vol. 356, p. 6328-6351. (2018: 3.653 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0016-0032.

9. MEDVEĎ, Milan - POSPÍŠIL, Michal. On the existence and exponential stability for differential equations with multiple constant delays and nonlinearity depending on fractional substantial integrals. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 43, p. 1-17. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.

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11. WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In Journal of Optimization Theory and Applications, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239.

12. WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In Journal of Optimization Theory and Applications, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239.

13. WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal - ZHOU, Yong. Controllability of fractional non-instantaneous impulsive differential inclusions without compactness. In IMA Journal of Mathematical Control and Information, 2019, vol. 36, no. 2, p. 443-460. (2018: 1.000 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0265-0754.

14. YANG, Peng - WANG, JinRong - FEČKAN, Michal. Periodic nonautonomous differential equations with noninstantaneous impulsive effects. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3700-3720. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.

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16. YOU, Zhongli - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Representation of solutions and finite time stability for delay differential systems with impulsive effects. In International Journal of Nonlinear Sciences and Numerical Simulation, 2019, vol. 20, no. 2, p. 205-221. (2018: 1.033 - IF, Q3 - JCR, 0.288 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1565-1339.

17. DILNA, Nataliya - FEČKAN, Michal - RONTÓ, András. On a class of functional differential equations with symmetries. In SYMMETRY-BASEL, 2019, vol. 11, issue 12, p. (2018: 2.143 - IF, Q2 - JCR, 0.287 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2073-8994.

18. FEČKAN, Michal - PAČUTA, Július - POSPÍŠIL, Michal - VIDLIČKA, Pavol. Averaging methods for piecewise-smooth ordinary differential equations. In AIMS Mathematics, 2019, vol. 4, no. 5, p. 1466-1487. (2019 - Current Contents). ISSN 2473-6988.

19. DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. Chaos control in the fractional order logistic map via impulses. In Nonlinear Dynamics, 2019, vol. 98, no. 2, p. 1219-1230. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X.

20. WANG, JinRong - FEČKAN, Michal. Periodic solutions and stability of linear evolution equations with noninstantaneous impulses. In Miskolc Mathematical Notes, 2019, vol. 20, no. 2, p. 1299-1313. (2018: 0.468 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR). ISSN 1787-2405.

21. DANCA, Marius-F. - FEČKAN, Michal - POSPÍŠIL, Michal. Difference equations with impulses. In Opuscula Mathematica, 2019, vol. 39, no. 1, p. 5-22. (2018: 0.685 - SJR, Q2 - SJR). ISSN 1232-9274.

22. FEČKAN, Michal - HRISTOVA, Snezhana - IVANOVA, Krasimira. Practical stability of differential equations with state dependent delay and non-instantaneous impulses. In Communications in Mathematical Analysis, 2019, vol. 22, no. 2, p. 1-17. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.

23. POSPÍŠIL, Michal. Laplace transform, gronwall inequality and delay differential equations for general conformable fractional derivative. In Communications in Mathematical Analysis, 2019, vol. 22, no. 1, p. 14-33. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.

24. FEČKAN, Michal - PAČUTA, J. Data approximation using Lotka-Volterra models and a software minimization function. In Journal of Applied Mathematics, Statistics and Informatics, 2019, vol. 15, no. 2, p. 5-14. ISSN 1339-0015.

25. MING, Hao - WANG, JinRong - FEČKAN, Michal. The application of fractional calculus in chinese economic growth models. In Mathematics, 2019, vol. 7, no. 8. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390.

26. MRAČKA, Igor - ŽÁČIK, Tibor - HYČKO, Marek - HAJOSSY, Rudolf - SOMORA, Peter. Optimization of gas transport - evolutionary calculations on a small cluster of computers. In PSIG 2019, Pipeline Simulation Interest Group Annual Meeting, 12-15 May, London, UK. - London : Pipeline Simulation Interest Group, 2019.

**3.) 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: 4361 € |

*Dosiahnuté výsledky:*

1. Ľ. Holá, D. Holý, Compactness in function spaces, Topology and its Applications 262 (2019), 20-29

2. Ľ. Holá, B. Novotný, Set-Valued and Variational Analysis (2019)

3. Ľ. Holá, A. K. Mirmostafaee, Norm continuity of quasicontinuous mappings   
into Cp(Y), Colloquium Mathematicum 154 (2018), 97-105

4. A. Caterino, R. Ceppitelli, Ľ. Holá, On the jointly continuous multi-utility representation problem, Topology and its Applications 268 (2019), 106919   
   
**4.) 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: 7873 € |

*Dosiahnuté výsledky:*

1. STRAUCH, Oto. Distribution of sequences: A theory. Bratislava : Veda ; Praha : Academia, 2019. 591 p. ISBN 978-80-224-1734-1 (Veda). ISBN 978-80-200-3010-8 (Academia).

2. OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers II. In Uniform Distribution Theory, 2019, vol. 14, no. 1, p. 19-42. ISSN 1336-913X.  
   
**5.) Algebrické, pravdepodobnostné a kategoriálne aspekty modelovania kvantových štruktúr** *(Algebraic. Probabilistic and Categorial Aspects of Modelling Quantum Structures)*

|  |  |
| --- | --- |
| **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 : 13112 € |

*Dosiahnuté výsledky:*

1. A. Dvurečenskij, O. Zahiri, On EMV-algebras, Fuzzy Sets and Systems 373 (2019), 116--148. https:doi.org/10.1016/j.fss.2019.02.013

2. A. Dvurečenskij, O. Zahiri, The Loomis--Sikorski theorem for EMV-algebras, J. Austral. Math. Soc. 106 (2019), 200--234. DOI:10.1017/S1446788718000101

3. A. Dvurečenskij, O. Zahiri, Generalized pseudo-EMV-effect algebras, Soft Computing 23 (2019), 9807–-9819. https://doi.org/10.1007/s00500-019-03880-0  
4. A. Di Nola, A. Dvurečenskij, G. Lenzi, Observables on perfect MV-algebras, Fuzzy Sets and Systems 369 (2019), 57--81. https://doi.org/10.1016/j.fss.2018.11.018

5. A. Dvurečenskij, Perfect effect algebras and spectral resolutions of observables, Found. Phys. 49 (2019), 607--628. DOI:10.1007/s10701-019-00238-2

6. A. Dvurečenskij, O. Zahiri, EMV-pairs, Inter. J. General Systems 48 (2019), 382--405 https://doi.org/10.1080/03081079.2019.1584893

7. A. Dvurečenskij, Observables on lexicographic MV-algebras, Inter. J. General Systems 48 (2019), 738--774. https//doi.org/10.1080/03081079.2019.1643338

8. A. Dvurečenskij, O. Zahiri, States on EMV-algebras, Soft Computing 23 (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x

9. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. I. Basic properties, J. Appl. Logic 6 (2019), 1285--1327.

10. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. II. Representation and states, J. Appl. Logic 6 (2019), 1329--1372.

11. A. Dvurečenskij, D. Lachman, Observables on lexicographic effect algebras, Algebra Universalis 80 (2019), Art. 49 DOI: 10.1007/s00012-019-0628-y

12. T. Heinosaari, L. Leppäjärvi, M. Plávala, No-free-information principle in general probabilistic theories, Quantum, vol. 3, p. 157 (2019)

13. A. Jenčová, M. Plávala, On the properties of spectral effect algebras, Quantum, vol. 3, p. 148 (2019)

14. D. J. Foulis, S. Pulmannová, Spectral order on a synaptic algebra, Order 36 (2019) 1-17

15. S. Pulmannová, Synaptic algebras as models for quantum mechanics, Int. J. Theo. Phys., https://doi.org/10 .107/s1073-019-0405-3

16. S. Pulmannová, Congruences and ideals in generalized pseudoeffect algebras revisited, Soft Comput. 23 (2019) 735-745

17. R. Carbone, A. Jenčová, On period, cycles and fixed points of a quantum channel. Ann. Henri Poincaré (2019) doi:10.1007/s00023-019-00861-9

**6.) Popisná a výpočtová zložitosť formálnych jazykov** *(Descriptive and Computational Complexity of Formal Languages)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 2/0132/19 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 8780 € |

*Dosiahnuté výsledky:*

1. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In RAIRO : Theoretical Informatics and Applications, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754.

2. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity in subclasses of convex languages. In Theoretical Computer Science, 2019, vol. 787, p. 89-110. (2018: 0.718 - IF, Q4 - JCR, 0.494 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0304-3975.

3. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Descriptional complexity of the forever operator. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 1, p. 115-134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.

4. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Square on deterministic, alternating, and boolean finite automata. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 06-07, p. 1117-1134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.

5. JIRÁSKOVÁ, Galina - KLÍMA, Ondřej. Deterministic biautomata and subclasses of deterministic linear languages. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 315-327. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

6. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. NFA-to-DFA trade-off for regular operations. In Lecture Notes in Computer Science : Descriptional complexity of formal systems, 2019, vol. 11612, p. 184-196. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

7. DAVIES, Sylvie - HOSPODÁR, Michal. Square, power, positive closure, and complementation on star-free languages. In Lecture Notes in Computer Science, 2019, vol. 11612, p. 98-110. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

8. HOLZER, Markus - HOSPODÁR, Michal. The range of state complexities of languages resulting from the cut operation. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

9. HOSPODÁR, Michal. Descriptional complexity of power and positive closure on convex languages. In Lecture Notes in Computer Science, 2019, vol. 11601, p. 158-170. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

**7.) 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: 1308 € |

*Dosiahnuté výsledky:*

1. KOCHOL, M.: Equivalent versions of group-connectivity theorems and conjectures, Discrete Applied Mathematics, vol. 257 (2019), str. 350–352, (ADCA).   
   
**8.) Globálne a lokálne vlastnosti priestorov a zobrazení** *(Global and Local Properties of Spaces and Mappings)*

|  |  |
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| **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: 514 € |

*Dosiahnuté výsledky:*

Boli dotiahnuté detaily v štúdiu štruktúrnej množiny S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium rho-invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. 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.

Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny S(LxD) aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.

Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórií chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranickeho formulácii tejto teórie pri vhodných voľbách.

Publikácie:   
   
1. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš : \emph{Higher simple structure sets of lens spaces with the fundamental group of order $2^K$}, In: Topology and its Applications. - Vol. 263 (2019), s. 299-320. - ISSN (print) 0166-8641   
   
2. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš: \emph{Higher simple structure sets of lens spaces with the fundamental group of arbitrary order}, In: Archivum Mathematicum, Vol. 55 (2019), No. 5, pp. 267–280, ISSN 1212-5059.   
   
Preprint:   
   
3. 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   
   
   
**9.) 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: 920 € |

*Dosiahnuté výsledky:*

1. HU, Kan - NEDELA, Roman - WANG, Naer. Complete regular dessins of odd prime power order. In Discrete Mathematics, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X.

**10.) 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: 5931 € |

*Dosiahnuté výsledky:*

1. OKŠA, Gabriel - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the two-sided serial and parallel block-jacobi svd algorithm. In Siam Journal on Matrix Analysis and Applications, 2019, vol. 40, no. 2, p. 639-671. (2018: 1.912 - IF, Q1 - JCR, 1.248 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1095-7162.

**11.) 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: 4058 € |

*Dosiahnuté výsledky:*

Boli charakterizované systémy spojitých reálnych funkcií zodpovedajúce určitým zväzom uzavretých podmnožín reálnej priamky v Galoisovej konexii určenej rozširovaním definičného oboru spojitých reálnych funkcií [1].   
   
1. P. Eliaš, A Galois connection related to restrictions of continuous real functions, Topol. Appl. 265 (2019), 106814.

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

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Andrej Štafura |
| **Zodpovedný riešiteľ v organizácii SAV:** | Ján Haluška |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 2/0106/19 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav hudobnej vedy SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
   
1. J. Haluška, M. Jastrzebska, A three dimensional modification of the gaussian number field. In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 63-76.

**13.) 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: 436 € |

*Dosiahnuté výsledky:*

1. ŠUCH, Ondrej - KLIMO, Martin - KEMP, N.T. - ŠKVAREK, Ondrej. Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259. (2017: 2.115 - IF, Q2 - JCR, 0.420 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1434-8411.

2. ŠUCH, Ondrej - KONTŠEK, Martin - TINAJOVÁ, Andrea. Neural pairwise classification models created by ignoring irrelevant alternatives. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 66-70. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).

3. ŠUCH, Ondrej - BARREDA, Santiago - MOJSEJ, Anton. A comparison of formant and CNN models for vowel frame recognition. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 139-144. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).

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

|  |  |
| --- | --- |
| **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: 873 € |

*Dosiahnuté výsledky:*

1. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In Izmeriteľnaja technika, 2019, no. 4, p. 14-18. ISSN 0368-1025.

2. ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. ISBN 978-80-972629-2-1.

3. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In Measurement Techniques, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.

4. WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In Izmeriteľnaja technika, 2019, no. 4, p. 19-25. ISSN 0368-1025.

5. WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In Measurement Techniques, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.

6. WIMMER, Gejza - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. ISBN 978-80-972629-2-1

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| 7. WIMMER, Gejza - WITKOVSKÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46. |
| 8. WITKOVSKÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47. |

**15.) Nové trendy v teórii agregovania a ich aplikácie**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 1/0006/19 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Stavebná fakulta STU |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 1014 € |

*Dosiahnuté výsledky:*

**Programy: APVV**

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

|  |  |
| --- | --- |
| **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: 29407 € |

*Dosiahnuté výsledky:*   
   
1. A. Dvurečenskij, O. Zahiri, On EMV-algebras, Fuzzy Sets and Systems 373 (2019), 116-148.   
https://doi.org/10.1016/j.fss.2019.02.013   
   
2. A. Dvurečenskij, O. Zahiri, The Loomis--Sikorski theorem for EMV-algebras, J. Austral. Math. Soc. 106 (2019), 200-234.   
https://doi.org/10.1017/S1446788718000101

3. A. Dvurečenskij, O. Zahiri, Generalized pseudo-EMV-effect algebras, Soft Computing 23 (2019), 9807-9819.   
https://doi.org/10.1007/s00500-019-03880-0   
   
4. A. Di Nola, A. Dvurečenskij, G. Lenzi, Observables on perfect MV-algebras, Fuzzy Sets and Systems 369 (2019), 57-81.   
https://doi.org/10.1016/j.fss.2018.11.018   
   
5. A. Dvurečenskij, Perfect effect algebras and spectral resolutions of observables, Found. Phys. 49 (2019), 607-628.   
https://doi.org/10.1007/s10701-019-00238-2   
   
6. A. Dvurečenskij, O. Zahiri, EMV-pairs, Inter. J. General Systems 48 (2019), 382-405.   
https://doi.org/10.1080/03081079.2019.1584893   
   
7. A. Dvurečenskij, Observables on lexicographic MV-algebras, Inter. J. General Systems 48 (2019), 738-774.   
https//doi.org/10.1080/03081079.2019.1643338   
   
8. A. Dvurečenskij, O. Zahiri, States on EMV-algebras, Soft Computing 23 (2019), 7513-7536.   
https//doi.org/10.1007/s00500-018-03738-x   
   
9. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. I. Basic properties, J. Appl. Logic 6 (2019), 1285-1327.   
   
10. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. II. Representation and states, J. Appl. Logic 6 (2019), 1329-1372.   
   
11. A. Dvurečenskij, D. Lachman, Observables on lexicographic effect algebras, Algebra Universalis 80 (2019), Art. 49.   
https//doi.org/10.1007/s00012-019-0628-y   
   
12. R. Halaš, R. Mesiar, J. Pócs: On generating sets of the clone of aggregation functions on finite lattices, Information Sciences 476 (2019) pp. 38-47.   
   
13. R. Halaš, R. Mesiar, J. Pócs: On generation of aggregation functions on infinite lattices, Soft Computing 23 (2019), 7279-7286.   
   
14. G. Jenča: Two monads on the category of graphs, Math. Slovaca, 69 (2019) 257-266.   
https//doi.org/10.1515/ms-2017-0220.   
   
15. A. Jenčová, M. Plávala, On the properties of spectral effect algebras, Quantum, 3 (2019), 148.   
   
16. T. Heinosaari, L. Leppäjärvi, M. Plávala, No-free-information principle in general probabilistic theories, Quantum 3, (2019), 157.   
https//doi.org/10.22331/q-2019-07-08-157   
   
17. D. J. Foulis, S. Pulmannová, Spectral order on a synaptic algebra, Order 36 (2019), 1-17.   
   
18. S. Pulmannová, Congruences and ideals in generalized pseudoeffect algebras revisited, Soft Comput. 23 (2019) 735-745.

19. D. Babicová, R. Frič, Real functions in stochastic dependence, Tatra Mountains Mathematical Publications. Vol. 74, no. 2 (2019), p. 17-34. DOI: 10.2478/tmmp-2019-0016.

20. Frič, R., Product of measurable spaces and applications, Tatra Mountains Mathematical Publications. Vol. 74, no. 2 (2019), p. 47-56. DOI: 0.2478/tmmp-2019-0018.

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

|  |  |
| --- | --- |
| **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: 13782 € |

*Dosiahnuté výsledky:*

1. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In RAIRO : Theoretical Informatics and Applications, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754.

2. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity in subclasses of convex languages. In Theoretical Computer Science, 2019, vol. 787, p. 89-110. (2018: 0.718 - IF, Q4 - JCR, 0.494 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0304-3975.

3. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Descriptional complexity of the forever operator. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 1, p. 115-134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.

4. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Square on deterministic, alternating, and boolean finite automata. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 06-07, p. 1117-1134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.

5. JIRÁSKOVÁ, Galina - KLÍMA, Ondřej. Deterministic biautomata and subclasses of deterministic linear languages. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 315-327. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

6. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. NFA-to-DFA trade-off for regular operations. In Lecture Notes in Computer Science : Descriptional complexity of formal systems, 2019, vol. 11612, p. 184-196. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

7. DAVIES, Sylvie - HOSPODÁR, Michal. Square, power, positive closure, and complementation on star-free languages. In Lecture Notes in Computer Science, 2019, vol. 11612, p. 98-110. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

8. HOLZER, Markus - HOSPODÁR, Michal. The range of state complexities of languages resulting from the cut operation. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

9. HOSPODÁR, Michal. Descriptional complexity of power and positive closure on convex languages. In Lecture Notes in Computer Science, 2019, vol. 11601, p. 158-170. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

**18.) 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: 2500 € |

*Dosiahnuté výsledky:*

Boli dotiahnuté detaily v štúdiu štruktúrnej množiny S(LxD) súčinu LxD šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium rho-invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. 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.

Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny S(LxD) aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.   
Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórií chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranickeho formulácii tejto teórie pri vhodných voľbách.   
   
Publikácie:   
   
1. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš : \emph{Higher simple structure sets of lens spaces with the fundamental group of order $2^K$}, In: Topology and its Applications. - Vol. 263 (2019), s. 299-320. - ISSN (print) 0166-8641   
   
2. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš: \emph{Higher simple structure sets of lens spaces with the fundamental group of arbitrary order}, In: Archivum Mathematicum, Vol. 55 (2019), No. 5, pp. 267–280, ISSN 1212-5059.   
   
Preprint:   
   
3. 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

**19.) Algebrické, topologické a kombinatorické metódy v štúdiu diskrétnych štruktúr** *(Algebraic, topological and combinatorial methods in the study of discrete structures)*

|  |  |
| --- | --- |
| **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. HU, Kan - NEDELA, Roman - WANG, Naer. Complete regular dessins of odd prime power order. In Discrete Mathematics, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X.

2. HU, Kan - NEDELA, Roman - WANG, Naer - YUAN, K. Reciprocal skew morphisms of cyclic groups. In Acta Mathematica Universitatis Comenianae, 2019, vol. 88, no. 2, p. 305-318. (2018: 0.247 - SJR, Q3 - SJR). ISSN 0862-9544.

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

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| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.7.2019 / 30.6.2022 |
| **Evidenčné číslo projektu:** | APVV-18-0066 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Slovenská legálna metrológia, n.o. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 1820 € |

*Dosiahnuté výsledky:*

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

|  |  |
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| **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:** | nie |
| **Koordinátor:** | Ústav merania SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 7500 € |

*Dosiahnuté výsledky:*

1. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In Izmeriteľnaja technika, 2019, no. 4, p. 14-18. ISSN 0368-1025.

2. ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. ISBN 978-80-972629-2-1.

3. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In Measurement Techniques, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.

4. WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In Izmeriteľnaja technika, 2019, no. 4, p. 19-25. ISSN 0368-1025.

5. WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In Measurement Techniques, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.

6. WIMMER, Gejza - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. ISBN 978-80-972629-2-1

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| 7. WIMMER, Gejza - WITKOVSKÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46. |
| 8. WITKOVSKÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47. |

**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:** | - |

*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:*

1. MRAČKA, Igor - ŽÁČIK, Tibor - HYČKO, Marek - HAJOSSY, Rudolf - SOMORA, Peter. Optimization of gas transport - evolutionary calculations on a small cluster of computers. In PSIG 2019, Pipeline Simulation Interest Group Annual Meeting, 12-15 May, London, UK. - London : Pipeline Simulation Interest Group, 2019.

***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**AAB Vedecké monografie vydané v domácich vydavateľstvách**

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| AAB01 | STRAUCH, Oto. Distribution of sequences: A theory. Bratislava : Veda ; Praha : Academia, 2019. 591 p. ISBN 978-80-224-1734-1 (Vega č. 2/0109/18 : Teória čísel a jej aplikácie). |

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

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| ABC01 | FEČKAN, Michal. Note on periodic and asymptotically periodic solutions of fractional differential equations. In Mathematics Applied to Engineering, Modelling, and Social Issues : studies in Systems, Decision and Control. 200. - Cham : Springer, 2019, p. 153-185. ISBN 978-3-030-12231-7. ISSN 2198-4182. |
| ABC02 | FEČKAN, Michal. A survey on the Melnikov theory for implicit ordinary differential equations with applications to RLC circuits. In Mathematics Applied to Engineering, Modelling, and Social Issues : Studies in Systems, Decision and Control. 200. - Cham : Springer, 2019, p. 121-160. ISBN 978-3-030-12231-7. ISSN 2198-4182. |

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

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| ADCA02 | DILNA, Nataliya - FEČKAN, Michal - SOLOVYOV, Mykola - WANG, JinRong. Symmetric nonlinear functional differential equations at resonance. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875. |
| ADCA03 | DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - LENZI, Giacomo. Observables on perfect MV-algebras. In Fuzzy Sets and Systems, 2019, vol. 369, p. 57-81. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114. |
| ADCA04 | DVUREČENSKIJ, Anatolij. Perfect effect algebras and spectral resolutions of observables. In Foundations of Physics, 2019, vol. 49, no. 6, p. 607-628. (2018: 1.344 - IF, Q3 - JCR, 0.381 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0015-9018. |
| ADCA05 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. States on EMV-algebras. In Soft Computing, 2019, vol. 23, no. 17, p. 7513-7536. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643. |
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| ADCA07 | DVUREČENSKIJ, Anatolij. Observables on lexicographic MV-algebras. In International Journal of General Systems, 2019, vol. 48, no. 7, p. 738-774. (2018: 2.259 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0308-1079. |

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| ADCA09 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. The Loomis-Sikorski theorem for EMV-algebras. In Journal of the Australian Mathematical Society, 2019, vol. 106, no. 2, p. 200-234. (2018: 0.602 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1446-7887. |
| ADCA10 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. EMV-pairs. In International Journal of General Systems, 2019, vol. 48, no. 4, p. 382-405. (2018: 2.259 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0308-1079. Dostupné na internete: <https://www.tandfonline.com/doi/pdf/10.1080/03081079.2019.1584893?needAccess=true>. |
| ADCA11 | DVUREČENSKIJ, Anatolij - LACHMAN, Dominik. Observables on lexicographic effect algebras. In Algebra Universalis, 2019, vol. 80, no. 4, p. 1-22. (2018: 0.667 - IF, Q3 - JCR, 0.436 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0002-5240. |
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| ADCA18 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. On generation of aggregation functions on infinite lattices. In Soft Computing, 2019, vol. 23, p. 7279-7286. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643. |
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| ADCA20 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In RAIRO : Theoretical Informatics and Applications, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754. |
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| ADCA24 | KOCHOL, Martin. Equivalent versions of group-connectivity theorems and conjectures. In Discrete Applied Mathematics, 2019, vol. 257, p. 350-352. (2018: 0.983 - IF, Q3 - JCR, 0.815 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0166-218X. |
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| ADCA26 | LÓPEZ POUSO, Rodrigo - MÁRQUEZ ALBÉS, Ignacio - MONTEIRO, Giselle Antunes. Extremal solutions of systems of measure differential equations and applications in the study of Stieltjes differential problems. In Electronic Journal of Qualitative Theory of Differential Equations, 2018, no. 38, p. 1-24. (2017: 0.881 - IF, Q2 - JCR, 0.492 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1417-3875. |
| ADCA27 | LUO, Dahui - WANG, JinRong - SHEN, Dong - FEČKAN, Michal. Iterative learning control for fractional-order multi-agent systems. In Journal of The Franklin Institute, 2019, vol. 356, p. 6328-6351. (2018: 3.653 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0016-0032. |
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| ADCA30 | MEDVEĎ, Milan - POSPÍŠIL, Michal. On the existence and exponential stability for differential equations with multiple constant delays and nonlinearity depending on fractional substantial integrals. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 43, p. 1-17. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875. |
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| ADCA32 | MING, Hao - WANG, JinRong - FEČKAN, Michal. The application of fractional calculus in chinese economic growth models. In Mathematics, 2019, vol. 7, no. 8. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390. |
| ADCA33 | OKŠA, Gabriel - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the two-sided serial and parallel block-Jacobi SVD algorithm. In Siam Journal on Matrix Analysis and Applications, 2019, vol. 40, no. 2, p. 639-671. (2018: 1.912 - IF, Q1 - JCR, 1.248 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1095-7162. |
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| ADCA39 | YANG, Peng - WANG, JinRong - FEČKAN, Michal. Periodic nonautonomous differential equations with noninstantaneous impulsive effects. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3700-3720. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214. |

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| ADCA41 | YOU, Zhongli - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Representation of solutions and finite time stability for delay differential systems with impulsive effects. In International Journal of Nonlinear Sciences and Numerical Simulation, 2019, vol. 20, no. 2, p. 205-221. (2018: 1.033 - IF, Q3 - JCR, 0.288 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1565-1339. |

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| ADEB03 | ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In Izmeriteľnaja technika, 2019, no. 4, p. 14-18. ISSN 0368-1025. |
| ADEB04 | FEČKAN, Michal - PAČUTA, Július - POSPÍŠIL, Michal - VIDLIČKA, Pavol. Averaging methods for piecewise-smooth ordinary differential equations. In AIMS Mathematics, 2019, vol. 4, no. 5, p. 1466-1487. (2019 - Current Contents). ISSN 2473-6988. |
| ADEB05 | LI, Mengmeng - WANG, JinRong - FEČKAN, Michal. Periodic solutions for impulsive differential systems. In Communications in Mathematical Analysis, 2018, vol. 21, no. 2, p. 35-46. (2017: 0.145 - SJR, Q4 - SJR). ISSN 0973-3841. |
| ADEB06 | MICHALÍKOVÁ, Alžbeta. Intuitionistic fuzzy sets and their use in image classification. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 60-66. ISSN 1310-4926. |
| ADEB07 | OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers II. In Uniform Distribution Theory, 2019, vol. 14, no. 1, p. 19-42. ISSN 1336-913X. |
| ADEB08 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In Izmeriteľnaja technika, 2019, no. 4, p. 19-25. ISSN 0368-1025. |

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

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| ADMA01 | BALKO, Ľudovít - MACKO, Tibor - NIEPEL, Martin - RUSIN, Tomáš. Higher simple structure sets of lens spaces with the fundamental group of order 2supK/sup. In Topology and its Applications, 2019, vol. 263, p. 299-320. (2018: 0.416 - IF, Q4 - JCR, 0.574 - SJR, Q2 - SJR). ISSN 0166-8641. |
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| ADMA03 | DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. Chaos control in the fractional order logistic map via impulses. In Nonlinear Dynamics, 2019, vol. 98, no. 2, p. 1219-1230. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X. |
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| ADMA10 | KADKHODA, Nematollah - FEČKAN, Michal - KHALILI, Yasser. Application of the exp(-\phi)-expansion method to the Pochhammer-Chree equation. In Filomat, 2018, vol. 32, no. 9, p. 3347-3354. (2017: 0.635 - IF, Q4 - JCR, 0.384 - SJR, Q3 - SJR). ISSN 0354-5180. |
| ADMA11 | WANG, JinRong - FEČKAN, Michal. Periodic solutions and stability of linear evolution equations with noninstantaneous impulses. In Miskolc Mathematical Notes, 2019, vol. 20, no. 2, p. 1299-1313. (2018: 0.468 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR). ISSN 1787-2405. |

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

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| ADMB01 | BALKO, Ľudovít - MACKO, Tibor - NIEPEL, Martin - RUSIN, Tomáš. Higher simple structure sets of lens spaces with the fundamental group of arbitrary order. In Archivum Mathematicum, 2019, vol. 55, p. 267-280. (2018: 0.223 - SJR, Q3 - SJR). ISSN 0044-8753. |
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**AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach**

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*1. [1.1] MATEU, Natalia - KIDD, Sarah L. - KALASH, Leen - SORE, Hannah F. - MADIN, Andrew - BENDER, Andreas - SPRING, David R. Synthesis of Structurally Diverse N-Substituted Quaternary-Carbon-Containing Small Molecules from alpha,alpha-Disubstituted Propargyl Amino Esters. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 51, p. 13681-13687., Registrované v: WOS*

*2. [1.1] MOHANRAJ, Karthikeyan - KARTHIKEYAN, Bagavathy Shanmugam - VIVEK-ANANTH, R. P. - CHAND, R. P. Bharath - APARNA, S. R. - MANGALAPANDI, Pattulingam - SAMAL, Areejit. IMPPAT: A curated database of Indian Medicinal Plants, Phytochemistry And Therapeutics. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, art. no. 4329., Registrované v: WOS*

*3. [1.1] SLAUSON, Stephen R. - ECHEVERRY, Natalia - COPELAND, Samantha - STOJ, Alessandra - KEMP, Melissa A. - SIMON, Maria. MICROWAVE PROMOTED DIELS-ALDER REACTION OF 1,2-DIHYDROPYRIDINE. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 96, no. 10, p. 1729-1739., Registrované v: WOS*

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| AEE03 | ĎURIŠ, Pavol - GALIL, Z. - SCHNITGER, G. Lower bounds on communication complexity. In Proceedings of the 16th ACM Symposium on Theory of Computing. - Washington D.C., 1984, s. 81-91. |

Citácie:

*1. [1.2] BALKANSKI, Eric - BREUER, Adam - SINGER, Yaron. Non-monotone submodular maximization in exponentially fewer iterations. In Advances in Neural Information Processing Systems. ISSN 10495258, 2018-01-01, 2018-December, pp. 2353-2364., Registrované v: SCOPUS*

*2. [1.2] BALKANSKI, Eric - SINGER, Yaron. Approximation guarantees for adaptive sampling. In 35th International Conference on Machine Learning, ICML 2018, 2018-01-01, 1, pp. 661-677., Registrované v: SCOPUS*

*3. [1.2] BALKANSKI, Eric - SINGER, Yaron. The adaptive complexity of maximizing a submodular function. In Proceedings of the Annual ACM Symposium on Theory of Computing. ISSN 07378017, 2018-06-20, pp. 1138-1151., Registrované v: SCOPUS*

*4. [1.2] BRAVERMAN, Mark - MAO, Jieming - WEINBERG, S. Matthew. On simultaneous two-player combinatorial auctions. In Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, 2018-01-01, pp. 2256-2273., Registrované v: SCOPUS*

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| AEE04 | 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] BANIVAHEB, H. - SAEID, A. Borumand. Localization of PMV-algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 1, p. 31-40., Registrované v: WOS*

*2. [1.1] FLAMINIO, T. - HOSNI, H. - LAPENTA, S. Convex MV-Algebras: Many-Valued Logics Meet Decision Theory. In STUDIA LOGICA. ISSN 0039-3215, 2018, vol. 106, no. 5, p. 913-945., Registrované v: WOS*

*3. [1.1] GORAGHANI, S. Saidi - BORZOOEI, R. A. Decomposition of A-ideals in MV-modules. In ANNALS OF THE UNIVERSITY OF CRAIOVA-MATHEMATICS AND COMPUTER SCIENCE SERIES. ISSN 1223-6934, 2018, vol. 45, no. 1, p. 66-77., Registrované v: WOS*

*4. [3.1] IORGULESCU, A. "Implicative-groups vs. groups and generalizations". Bucharest: Matrix Rom, 2018. ISBN 978-606-25-0394-9, 735 p.*

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| AEE05 | JANKOVIČ, P. - ŠUCH, Ondrej. Functional programming and discrete simulation. In ITAT 2011, Informačné technológie – Aplikácie a Teória. - Praha : Univerzita Karlova v Praze, 2011, s. 95-98. ISBN 978-80-89557-01-1. |

Citácie:

*1. [1.1] THALER, Jonathan - ALTENKIRCH, Thorsten - SIEBERS, Peer-Olaf. Pure Functional Epidemics. In PROCEEDINGS OF THE 30TH SYMPOSIUM ON IMPLEMENTATION AND APPLICATION OF FUNCTIONAL LANGUAGES (IFL 2018), 2018, p. 1-12., Registrované v: WOS*

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| AEE06 | RIEČAN, Beloslav. On two ways for the probability theory on IF-sets. In SOFT METHODS FOR INTEGRATED UNCERTAINTY MODELLING. - Univ. Bristol, England, 2006, s. 285-290. |

Citácie:

*1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS*

**\*AEF Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách**

|  |  |
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| AEF01 | GRUSKA, Jozef. Descriptional complexity of context-free languages. In Proc. of MFCS';73. - High Tatras, 1973, s. 71-85. |

Citácie:

*1. [1.1] JEZ, Artur - OKHOTIN, Alexander. On the Number of Nonterminal Symbols in Unambiguous Conjunctive Grammars. In FUNDAMENTA INFORMATICAE. ISSN 0169-2968, 2018, vol. 162, no. 1, p. 43-72., Registrované v: WOS*

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| AEF02 | RIEČAN, Beloslav. On the probability on BL algebras. In Acta Mathematica 4. - Nitra : Univerzita Konštantína Filozofa, 2000, s. 3-13. ISBN 80–8050-350–8. |

Citácie:

*1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 24, pp. 8025-8040., Registrované v: WOS*

*2. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. State maps on semihoops. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, no., pp. 1061-1076., Registrované v: WOS*

*3. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. Involutive Monoidal T-norm Based Algebras with Internal States. In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2018, vol. 31, no. 5-6, pp. 531-565., Registrované v: WOS*

*4. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 9, pp. 2825-2841., Registrované v: WOS*

*5. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 3, pp. 3773-3782., Registrované v: WOS*

*6. [1.1] ZHAO, Bin - HE, Pengfei. On Non-commutative Residuated Lattices With Internal States. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, 2018, vol. 26, no. 3, pp. 1387-1400., Registrované v: WOS*

**AEMB Abstrakty vedeckých prác v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS**

|  |  |
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| AEMB01 | KUTIL, Rade - FLATZ, Markus - VAJTERŠIC, Marián. Improvements in approximation performance and parallelization of Nonnegative Matrix Factorization with Newton iteration. In The 2017 International Conference on High Performance Computing and Simulation : proceedings, HPCS 2017. - Los Alamitos : IEEE Computer Society, 2017, p. 887-888. ISBN 978-1-5386-3250-5. |

Citácie:

*1. [1.1] JIANG, Yi - WU, Jiani - ZHANG, Shufang. An Improved Positioning Method for Two Base Stations in AIS. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 4, article number 991., Registrované v: WOS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
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| AFC01 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. Some Results and Algorithm for One-sided Concept Lattices with Separable Modifiers. In 9th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2014). - Romania, 2014, s. 201-205. ISBN 978-1-4799-4694-5. |

Citácie:

*1. [1.2] SINGH, Prem Kumar - KUMAR, Aswani. Attribute implications in data with fuzzy attributes using armstrong axioms. In 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017, 2018, p. 637-641., Registrované v: SCOPUS*

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| AFC02 | FLATZ, Markus - KUTIL, Rade - VAJTERŠIC, Marián. Parallelization of the hierarchical alternating least squares algorithm for Nonnegative Matrix Factorization. In 2018 IEEE 4th International Forum on Research and Technologies for Society and Industry (RTSI 2018), Palermo, Italy, September 10-13, 2018: forum proceedings. - Piscataway : IEEE Press, 2018, p. 208-212. ISBN 978-1-5386-6283-0. (Elektronické ISBN 978-1-5386-6282-3, s. 1-5.). |

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*1. [1.1] JIANG, Yi - WU, Jiani - ZHANG, Shufang. An Improved Positioning Method for Two Base Stations in AIS. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 4, article number 991, Registrované v: WOS*

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| AFC03 | MIHÓK, Peter - SEMANIŠIN, G. Unique factorization theorem and formal concept analysis. In Lecture Notes in Computer Science, 2008, vol. 4923, p. 232-239. |

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*1. [1.1] VIAUD, Jean-Francois - BERTET, Karell - MISSAOUI, Rokia - DEMKO, Christophe. Using congruence relations to extract knowledge from concept lattices. In DISCRETE APPLIED MATHEMATICS. ISSN 0166-218X, 2018, vol. 249, p. 135-150., Registrované v: WOS*

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| AFC04 | RIEČAN, Beloslav. On the probability and random variables on if events. In Proceedings of the 7th international flins conference. - Genova, 2006, 2006, p. 138-145. |

Citácie:

*1. [1.2] BARTKOVÁ, Renáta - ČUNDERLÍKOVÁ, Katarína. About fisher-tippett-gnedenko theorem for intuitionistic fuzzy events. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018-01-01, 641, pp. 125-135., Registrované v: SCOPUS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

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| AFD01 | WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALENČÁR, R. Brief overview of methods for measurement uncertainty analysis: GUM uncertainty framework, Monte Carlo method, characteristic function approach. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement. Editors: J. Maňka, M. Tyšler, V. Witkovský, I. Frollo. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2017, p. 35-38. (2017 - IEEE Xplore, SCOPUS). ISBN 978-80-972629-0-7. |

Citácie:

*1. [1.2] CHUMMANO, Nareerat - CHUMMANO, Prayuth - THEPMANEE, Teerawat. Uncertainty analysis for determination of long-term drift and mounting position for pressure transmitter calibration. In ICIC Express Letters. ISSN 1881803X, 2018, vol. 12, no. 7, p. 663-669., Registrované v: SCOPUS*

**DAI Dizertačné a habilitačné práce**

|  |  |
| --- | --- |
| DAI01 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Special classes of triangular norms. Ph.D. thesis. Bratislava : Matematický ústav SAV, 2005. |

Citácie:

*1. [1.1] PETRIK, Milan - SARKOCI, Peter. Continuous weakly cancellative triangular subnorms: I. Their web-geometric properties. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 332, p. 93-110., Registrované v: WOS*

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

|  |  |
| --- | --- |
| FAI01 | Euro HCC 2017 : proceedings. J. von zur Gathen, O. Grošek, K. Nemoga, A. Wacker (eds.). Bratislava : SPEKTRUM STU, 2017. 77 p. ISBN 978-80-227-4687-8. |

Citácie:

*1. [1.1] SCHMEH, Klaus. Review of the 3rd European Historical Ciphers Colloquium in Smolenice, Slovakia. In CRYPTOLOGIA. ISSN 0161-1194, 2018, vol. 42, no. 2, p. 176-182., Registrované v: WOS*

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

|  |  |
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| GHG01 | MACKO, Tibor. Fake lens spaces [elektronický zdroj]. 2013. Dostupné na internete: <http://www.boma.mpim-bonn.mpg.de/volumes>. |

Citácie:

*1. [1.1] ERDAL, Mehmet Akif. On smooth manifolds with the homotopy type of a homology sphere. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2018, vol. 234, p. 82-91., Registrované v: WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Názov semestr. predmetu: Teória pravdepodobnosti

Počet hodín za semester: 16

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Nelineárna funkcionálna analýza

Počet hodín za semester: 2

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, KAG

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 24

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

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, KAG

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 2

Počet hodín za semester: 48

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Vybrané kapitoly z algebraickej topológie

Počet hodín za semester: 24

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika I

Počet hodín za semester: 24

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika II

Počet hodín za semester: 8

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerické metódy lineárnej algebry

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: 39

Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, 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. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Lineare Algebra fuer Informatik

Počet hodín za semester: 45

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Rechnerarchitektur

Počet hodín za semester: 30

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 1

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 2

Počet hodín za semester: 36

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, 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: 120

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Úvod do matematických základov informatiky

Počet hodín za semester: 72

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 24

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika II

Počet hodín za semester: 6

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

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: Numerické metódy lineárnej algebry

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

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha E***

**Medzinárodná mobilita organizácie**

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 8 |
| Česko |  |  |  |  | Roman Frič | 4 |
|  |  |  |  |  | Tibor Macko | 5 |
|  |  |  |  |  | Karol Nemoga | 4 |
|  |  |  |  |  | Gabriel Okša | 4 |
|  |  |  |  |  | Jozef Pócs | 2 |
| Nemecko |  |  |  |  | Martin Kochol | 28 |
|  |  |  |  |  | Martin Plávala | 18 |
| Poľsko | Katarína Čunderlíková | 2 |  |  |  |  |
|  | Emília Halušková | 27 |  |  |  |  |
| Rakúsko |  |  |  |  | Vladimír Baláž | 2 |
|  |  |  |  |  | Gabriel Okša | 4 |
|  |  |  |  |  | Oto Strauch | 2 |
| Rusko |  |  |  |  | Roman Nedela | 6 |
| Španielsko | Pavol Bokes | 17 |  |  | Martin Papčo | 17 |
|  | Branislav Novotný | 17 |  |  |  |  |
| Taliansko |  |  |  |  | Martin Plávala | 9 |
| Turecko |  |  |  |  | Anna Jenčová | 6 |
| USA |  |  |  |  | Igor Mračka | 14 |
| **Počet vyslaní spolu** | **4** | **63** |  |  | **16** | **133** |

**(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 |  |  |  |  | Michal Botur | 9 |
| Hongkong |  |  |  |  | Hoi Ping Luk | 61 |
| Irán |  |  |  |  | Omid Zahiri | 2 |
| Rusko |  |  |  |  | Ilia Ponomarenko | 21 |
| Taliansko |  |  |  |  | Serafina Lapenta | 5 |
| **Počet prijatí spolu** |  |  |  |  | **5** | **98** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Belgicko | HistoCrypt 2019 | Karol Nemoga | 6 |
| Bulharsko | ICIFS 2019 | Katarína Čunderlíková | 5 |
|  |  | Alžbeta Michalíková | 5 |
|  | LSSC 2019 | Marian Vajteršic | 5 |
| Česko | AGOP 2019 | Jozef Pócs | 5 |
|  | CECC 2019 | Karol Nemoga | 4 |
|  | EUSFLAT 2019 | Katarína Čunderlíková | 6 |
|  | ISCAMI 2019 | Dušana Babicová | 5 |
|  | MCW XXIV | Roman Nedela | 4 |
|  | SSAOS 2019 | Anna Jenčová | 7 |
|  | WSGP 2019 | Tibor Macko | 4 |
| Estónsko | MMA 2019 | Jozef Pócs | 5 |
| Francúzsko | HIP19 | Jean Rosemond Dora | 3 |
|  | Workshop GPT&QIT | Anna Jenčová | 4 |
|  |  | Martin Plávala | 4 |
| Grécko | PMAMCM 2019 | Ľubica Holá | 10 |
| Chorvátsko | ParNum 2019 | Gabriel Okša | 5 |
| Kanada | BIRS Workshop | Anna Jenčová | 7 |
| Maďarsko | Exoplanet Vision 2050 | Eva Plávalová | 2 |
| Nemecko | CTGP 2019 | Martin Kochol | 7 |
| Nórsko | 14thMunin | Karol Nemoga | 4 |
| Poľsko | AALCS XXIII | Ján Haluška | 5 |
|  |  | Emília Halušková | 5 |
|  | CASTR 2019 | Emília Halušková | 2 |
|  | FNW 2019 | Emília Halušková | 1 |
|  | IWIFSGN 2019 | Katarína Čunderlíková | 2 |
|  |  | Alžbeta Michalíková | 4 |
|  | PPAM 2019 | Martin Bečka | 5 |
|  |  | Gabriel Okša | 5 |
|  | RealFunc2019 | Roman Frič | 7 |
|  |  | Branislav Novotný | 9 |

**(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (pokračovanie):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Portugalsko | ICDDEA 2019 | Nataliya Dilna | 8 |
|  | MATHMET 2019 | Gejza Wimmer | 5 |
| Rakúsko | KEOD 2019 | Jean Rosemond Dora | 3 |
| Rusko | LATA 2019 | Michal Hospodár | 7 |
|  |  | Galina Jirásková | 7 |
| Španielsko | NATOSecComm | Karol Nemoga | 3 |
| Švajčiarsko | Solstice of Foundations 2019 | Martin Plávala | 4 |
|  | OPODIS 2019 | Stefan Dobrev | 4 |
| Veľká Británia | PSIG 2019 | Marek Hyčko | 7 |
|  |  | Igor Mračka | 7 |
|  | QCS 2019 | Martin Plávala | 7 |
| **Spolu** | **34** | **42** | **214** |

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

Skratky použité v tabuľke C:

Solstice of Foundations 2019 - Solstice of Foundations 2019

14thMunin - 14th Munin Conference on Scholarly Publishing

AALCS XXIII - Application of Algebra XXIII

AGOP 2019 - 10th International Summer School on Aggregation Operators

BIRS Workshop - BIRS Workshop on Algebraic and Statistical ways into Quantum Resource Theories

CASTR 2019 - Computer Algebra Systems in Teaching and Research

CECC 2019 - Central European Conference on Cryptology 2019

CTGP 2019 - Comparative Theory for Graph Polynomials

EUSFLAT 2019 - 11th Conference of the European Society for Fuzzy Logic and Technology

Exoplanet Vision 2050 - Exoplanet Vision 2050

FNW 2019 - Festiwal Nauki Warszawa

HIP19 - Hack in Paris 2019

HistoCrypt 2019 - International Conference on Historical Cryptology 2019

ICDDEA 2019 - International Conference on Differential & Difference Equations and Applications 2019

ICIFS 2019 - 23rd International Conference on Intuitionistic Fuzzy Sets 2019

ISCAMI 2019 - International Student Conference on Applied Mathematics and Informatics

IWIFSGN 2019 - Eighteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets

KEOD 2019 - International Conference on Knowledge Engineering and Ontology Development 2019

LATA 2019 - 13th International Conference on Language and Automata Theory and Applications

LSSC 2019 - Large Scale Scientific Computations 2019

MATHMET 2019 - MATHMET 2019 International Workshop

MCW XXIV - Midsummer Combinatorial Workshop XXIV

MMA 2019 - 24th International Conference on Mathematical Modelling and Analysis

NATOSecComm - NATO Workshop on Secure Communication

OPODIS 2019 - Conference on Principles of Distributed Systems 2019

ParNum 2019 - ParNum 2019

PMAMCM 2019 - The 2019 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods

PPAM 2019 - 13th International Conference on Parallel Processing and Applied Mathematics

PSIG 2019 - Pipeline Simulation Interest Group Conference 2019

QCS 2019 - Quantum Causal Structures 2019

RealFunc2019 - 33th International Summer Conference on Real Functions Theory

SSAOS 2019 - 57th Summer School on General Algebra and Ordered Sets

Workshop GPT&QIT - Workshop on Generalized Probabilistic Theories and Quantum Information

WSGP 2019 - The 39th Winter School Geometry and Physics ***Príloha F***

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| RNDr. Stefan Dobrev, PhD. |  | PB | Ako nájsť poklad keď nemáš pamäť? (Prehľadávanie multi-dimenzionálnych mriežok konečnými automatmi) | Deň otvorených dverí MÚ SAV | 6.11.2019 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | 2.S. Ščepán, Matematici SAV si pripomínali šesťdesiatku, Aktuality SAV, https://www.sav.sk/index.php?lang=sk&doc=services-news&source\_no=20&news\_no=8428, 17.9.2019 | Aktuality SAV | 17.9.2019 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | S. Ščepán, Medaily SAV výnimočným matematikom, Aktuality SAV, https://www.sav.sk/index.php?lang=sk&doc=services-news&source\_no=20&news\_no=8429, 17.9.2019 | Aktuality SAV | 17.9.2019 |
| doc. RNDr. Roman Frič, DrSc. |  | PB | O čom matematika je/nie je | Deň otvorených dverí Detašovaného pracoviska MÚ SAV v Košiciach | 7.11.2019 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Ako sínus s kosínusom rozhodujú o farbách jesenného lístia | Deň otvorených dverí MÚ SAV | 6.11.2019 |
| RNDr. Emília Halušková, CSc. |  | PB | Babrošenie s matematikou | Kultúrny dom Liptovský Ján | 20.2.2019 |
| RNDr. Emília Halušková, CSc. |  | PB | Babrošenie s matematikou | Kultúrny dom Liptovský Ján | 27.2.2019 |
| RNDr. Emília Halušková, CSc. |  | PB | Babrošenie s matematikou | Kultúrny dom Liptovský Ján | 26.6.2019 |
| Ing. Michal Hospodár, PhD. |  | IN | 21st International Conference on Descriptional Complexity of Formal Systems (DCFS) | http://www.ssn.sk/21359/najnovsie-vysledky-vypoctovych-modelov-prinesie-medzinarodna-informaticka-konferencia/ | 16.7.2019 |
| Ing. Michal Hospodár, PhD. |  | IN | 24th International Conference on Implementation and Application of Automata (CIAA) | https://www3.teraz.sk/regiony/na-konferencii-ciaa-2019-v-kosiciach-sa/408665-clanok.html | 22.7.2019 |
| Ing. Michal Hospodár, PhD. |  | PB | O matematických automatoch | Deň otvorených dverí Detašovaného. pracoviska MÚ SAV v Košiciach | 7.11.2019 |

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV (pokračovanie)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| Mgr. Tibor Macko, PhD. |  | PB | O Eulerovom vzorci a futbalovej lopte | Deň otvorených dverí MÚ SAV | 6.11.2019 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Matematika veselo a vážne | Deň otvorených dverí Detašovaného pracoviska MÚ SAV v Košiciach | 7.11.2019 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Niektoré zaujímavé úlohy z Matematickej olympiády | Týždeň vedy a techniky, Detašované pracovisko MÚ SAV v Košiciach | 4.11.2019 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Vedecký brloh | Výmenník Obrody, Košice | 2.3.2019 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Je náš svet bezpečný | Rektorát STU, Bratislava | 1.10.2019 |
| doc. RNDr. Karol Nemoga, CSc. |  | TV | Rozhovor o projektoch programu NATO Science for Peace and Security | španielska TV | 23.9.2019 |
| doc. RNDr. Karol Nemoga, CSc. | - | IN | Rozhovor s matematikom Karolom Nemogom o umelej inteligencii | https://mistrik2019.sk/podcast/ | 1.8.2019 |
| RNDr. Martin Plávala, PhD. |  | IN | CESTA K POVOLANIU: Matematikou sa rátal dobytok aj pohyb telies na oblohe. Preto ju máme v ekonómii aj fyzike | https://www.eductech.sk/novinky/cesta-k-povolaniu-matematikou-sa-ratal-dobytok-aj-pohyb-telies-na-oblohe-preto-ju-mame-v-ekonomii-aj-fyzike/ | 24.6.2019 |
| RNDr. Martin Plávala, PhD. |  | IN | Kvantová záhada | https://www.quark.sk/kvantova-zahada/ | 23.11.2019 |
| RNDr. Martin Plávala, PhD. |  | IN | Racionálna aj iracionálna logika | https://vedanadosah.cvtisr.sk/racionalna-aj-iracionalna-logika | 10.5.2019 |
| RNDr. Martin Plávala, PhD. |  | PB | Sčítanie a sumy v matematike od základnej školy po teóriu kategórií | Deň otvorených dverí MÚ SAV | 6.11.2019 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 3.S. Ščepán, Matematika je podstatná a nezastupiteľná, Akadémia Správy SAV, 55 no. 5(2019), 21—21. | Správy SAV 55 (2) 2019, 21%21 | 0 |
| Mgr. Peter Mlynárčik, PhD. |  | iné | Matematický Alternatívny Krúžok (MAK) | Matematický ústav SAV, Grešákova 6, Košice | 15 |
| RNDr. Martin Plávala, PhD. |  | TL | Kvantová záhada | Quark | 0 |

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