**Matematický ústav SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2017**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2018

**Obsah osnovy Správy o činnosti organizácie SAV za rok 2017**

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**1. Základné údaje o organizácii**

**1.1. Kontaktné údaje**   
   
**Názov:** [Matematický ústav SAV](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=27)   
**Riaditeľ:** [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369)   
**Zástupca riaditeľa:** [prof. RNDr. Anatolij Dvurečenskij, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2372)   
**Vedecký tajomník:** [Mgr. Marek Hyčko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521)   
**Predseda vedeckej rady:** [Mgr. Anna Jenčová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380)   
**Člen snemu SAV:** [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=)   
**Adresa:** Štefánikova 49, 814 73 Bratislava   
   
http://www.mat.savba.sk   
   
**Tel.:** 02/ 5751 0414   
**Fax:** 02/ 5249 7316   
**E-mail:** mathinst@mat.savba.sk   
**Názvy a adresy detašovaných pracovísk:**

 [**Oddelenie informatiky Matematického ústavu SAV**](http://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**](http://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**](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=92)   
Ďumbierska 1, 974 11 Banská Bystrica

**Vedúci detašovaných pracovísk:**

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

 [**Detašované pracovisko Matematického ústavu SAV v Košiciach**](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=86)   
[doc. RNDr. Roman Frič, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5683)

 [**Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=92)   
[prof. RNDr. Beloslav Riečan, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6722)

**Typ organizácie:** Rozpočtová od roku 1959

**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Štruktúra zamestnancov** | **K** | **K** | | **K  do 35  rokov** | | **F** | **P** | **T** |
| **M** | **Ž** | **M** | **Ž** |
| **Celkový počet zamestnancov** | 77 | 45 | 32 | 6 | 1 | 60 | 43,51 | 29,21 |
| **Vedeckí pracovníci** | 55 | 43 | 12 | 6 | 0 | 40 | 28,68 | 28,22 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 5 | 0 | 5 | 0 | 0 | 3 | 2,82 | 0,99 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Odborní pracovníci ÚS** | 13 | 2 | 11 | 0 | 0 | 13 | 9,87 | 0 |
| **Ostatní pracovníci** | 4 | 0 | 4 | 0 | 1 | 4 | 2,14 | 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 31.12.2017 (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 31.12.2017 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2017)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 11 | 32 | 8 | 14 | 11 | 11 | 21 |
| **Ženy** | 2 | 11 | 0 | 3 | 2 | 3 | 7 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | **31-35** | **36-40** | **41-45** | **46-50** | **51-55** | **56-60** | **61-65** | **> 65** |
| **Muži** | 1 | 3 | 4 | 3 | 3 | 1 | 5 | 5 | 7 |
| **Ženy** | 0 | 0 | 3 | 0 | 2 | 1 | 2 | 1 | 1 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2017

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | | **Vedeckí pracovníci** | | **Riešitelia projektov** | |
|  | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 53,5 | 54,0 | 53,1 | 53,4 | 54,1 | 54,6 |
| **Ženy** | 52,1 | 52,9 | 48,4 | 49,8 | 52,2 | 54,9 |
| **Spolu** | 52,9 | 53,5 | 52,1 | 52,6 | 53,6 | 54,7 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov   
B - Prepočet so zohľadnením úväzkov zamestnancov*

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

V r. 2016 prebehla akreditácia ústavov SAV včítane Matematického ústavu SAV medzinárodným panelom odborníkov. Na základe výsledkov vedeckej činnosti za obdobie 2012—2015 Matematický ústav SAV bol zaradený v r. 2017 do kategórie: *Výskum je viditeľný na európskej úrovni. Organizácia dosiahla hodnotné príspevky v danej oblasti v rámci Európy.*

Na základe odporúčaní odborného panelu MÚ SAV vypracoval plán rozvoja ústavu na najbližšie roky.

Na ústave prebehla úspešná obhajoba dvoch dizertačných prác: Mgr. Matúša Palmovského, PhD. a Mgr. Petra Mlynárčika, PhD.

V rámci Týždňa vedy sme mali 9. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach, Ružomberku a na ZŠ v Liptovskom Mikuláši, Liptovskom Hrádku a Štrbe.

V r. 2016 Mgr. Andrea Zemánková, PhD., ktorá získala prestížny štipendijný program Štipendium SAV pre mladých odborníkov, bola na materskej dovolenke. Toto štipendium získali len traja pracovníci SAV.

V r. 2015 Dr. Giselle Monteiro, Brazília, získala štipendium v rámci projektu SASPRO na jeden rok na MÚ SAV. Na ústav nastúpila 1. apríla 2016 a ukončila 31. 3. 2017.

Od 22.8. 2016 v rámci grantovej schémy "Podporná schéma na návrat odborníkov zo zahraničia" (vyhlasovaná Ministerstvom školstva, vedy, výskumu a športu SR v zmysle uznesenia vlády SR č. 368/2015) sa po 16 ročnom pobyte vo Veľkej Británii a Nemecku vrátil na ústav Mgr. Tibor Macko, PhD. Je to jeden zo štyroch Slovákov, ktorí sa v roku 2016 vrátili na Slovensko v rámci tejto grantovej schémy. Štipendium bolo ukončené v aug. 2017.

V r. 2017 Dr. B. Novotný získal ako spoluriešiteľ grant v rámci ERACOSYSMED so začiatkom riešenia v r. 2018, doba riešenia 36 mesiacov.

Dr. A. Jenčová odovzdala doktorskú dizertačnú prácu.

V r. 2017 sme pokračovali v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

Časopis Mathematica Slovaca má impaktový faktor IF(2016)=0,346, päťročný impakt faktor 0,412 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,485 (Scimago Journal Ranking) a je v 2. kvartile. Počet zaslaných článkov v r. 2017 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,309 (Scimago Journal Ranking) a je v 3. kvartile.

Dňa 9. 11. 2017 udelilo Predsedníctvo SAV *Ocenenie za vedeckú publikáciu s mimoriadne veľkým počtom citácií* našim pracovníkom prof. RNDr. A. Dvurečenskému, DrSc. a doc. RNDr. Sylvii Pulmannovej, DrSc. za publikáciu: *New Trends in Quantum Structures* vydanú v roku 2000 v Dordrechte: Kluwer Academic a v Bratislave: Ister Science.

Súčasne bola ocenená publikácia *M. Fečkan, and M. Pospíšil. Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems. Amsterdam, Elsevier, 2016. 244 s. ISBN 978-0-12-804294-6* autorov prof. RNDr. M. Fečkan, DrSc. a Mgr. M. Pospíšil, PhD. v kategórii Špičkové publikácie SAV.

V r. 2017 bol schválený zákon o vedecko výskumných inštitúciách, na základe ktorého prejdú všetky ústavy SAV z terajšej formy hospodárenia na nový typ v.v.i. od 1. 7. 2018.

K. Nemoga koordinoval prípravu, realizáciu a vyhodnotenie výzvy NATO Call for Cyber Defence, ktorá bola vyhlásená 1. 7. 2017 a ukončená 31.10. 2017. Hodnotenie bolo realizované v Bruseli v decembri 2017.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Domáce projekty riešené v roku 2017

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** | 14 | 3 | 65762 | 65762 | - | - | 5804 | - |
| **2. Projekty APVV** | 2 | 4 | - | - | 21528 | 15663 | - | 35430 |
| **3. Projekty OP ŠF** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty SASPRO** | 1 | 0 | 11752 | 11752 | - | - | - | - |
| **5. Projekty centier excelentnosti SAV** | 0 | 0 | - | - | - | - | - | - |
| **6. Iné projekty (FM EHP, ŠPVV,   Vedecko-technické projekty, ESF,   na objednávku rezortov a pod.)** | 3 | 0 | - | - | 27000 | 27000 | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Domáce projekty podané v roku 2017

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2017** | - | 2 | 3 |
| **2. Projekty výziev OP ŠF**  **podané r. 2017** | Bratislava |  |  |
| Regióny |  | 1\* |

\* V rámci operačného programu Výskum a inovácie 313000, kód výzvy OPVaI-VA/DP/2016/1.2.1-02, sme získali projekt, NFP313010C095, „mhealth.ai - Centrum výskumu inteligentných mobilných aplikácií na predpis v oblasti prevencie komplikácií počas tehotenstva“, s hlavným žiadateľom O2 v celkovej výške oprávnených výdavkov 4 549 666,77 EUR, Matematický ústav SAV 3 727 926 EUR.

Po negatívnej mediálnej odozve na niektoré projekty z výzvy boli pozastavené všetkým projektom platby a spoločnosť O2 následne od projektu odstúpila.

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2017**

Tabuľka 2c Medzinárodné projekty riešené v roku 2017

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 0 | - | - | - | - | - | - |
| **3. Projekty COST** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty EUREKA, NATO,   UNESCO, CERN, IAEA, IVF,   ERDF a iné** | 0 | 0 | - | - | - | - | - | - |
| **5. Projekty v rámci medzivládnych   dohôd** | 0 | 0 | - | - | - | - | - | - |
| **6. Bilaterálne projekty MAD** | 0 | 0 | - | - | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 0 | 0 | - | - | - | - | - | - |
| **8. Podpora MVTS z národných   zdrojov (SAV, APVV a iné)** | 0 | 0 | - | - | - | - | - | - |
| **9. Iné projekty** | 0 | 0 | - | - | - | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

\* Matematický ústav podal v roku 2017 tri medzinárodné projekty ERANET, z ktorých jeden bol zatiaľ úspešný a jeho realizácia začne v roku 2018.

**2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2017**

Tabuľka 2d Počet projektov Horizont 2020 v roku 2017

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

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

*Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.*

**2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach**

Matematický ústav SAV má zámer v roku 2018 podať projekt do štrukturálnych fondov, ktorý bude modifikáciou úspešného, ale nerealizovaného projektu z roku 2017 v širšej spolupráci s lekárskymi pracoviskami SAV, Ústavom merania SAV, Lekárskou fakultou UK a ďalšími.

**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**

**Reverzibilita kvantových kanálov a Rényiho relatívna entropia pre von Neumannove algebry**

Trieda Rényiho relatívnych α-entropií má viacero veľmi dôležitých aplikácií v teórii informácie. Pre kvantové stavy sa tieto entropie dajú formálne rozšíriť mnohými spôsobmi, existujú však dve rozšírenia, ktoré majú podobné vlastnosti a plnia úlohy analogické klasickým Rényiho relatívnym entropiám. Tieto sa nazývajú štandartné, resp. sendvičové kvantové Rényiho relatívne α-entropie. Zatiaľ čo štandartná verzia je známa a používa sa už dlhšiu dobu, sendvičové entropie pre matice hustoty boli zavedené pomerne nedávno (M. Müller Lennert et al., J. Math. Phys. 54, 2013). Jednou zo základných vlastností relatívnych entropií v teórii informácie je, že sú monotónne vzhľadom na kanály. D. Petz (Quart. J. Math. Oxford, 39 (1988), 97-108) dokázal, že zachovávanie kvantovej (Umegakiho-Arakiho) relatívnej entropie pre dvojicu stavov je ekvivalentné reverzibilite kanála vzhľadom na tieto stavy. To znamená, že existuje iný kanál, pomocou ktorého sa oba pôvodné stavy dajú získať späť. V sérii článkov [1-3] sme rozšírili sendvičové kvantové Rényiho relatívne α-entropie na normálne stavy na všeobecnej von Neumannovej algebre, s použitím komplexnej interpolácie. Dokázali sme niektoré ich vlastnosti, vrátane monotónnosti vzhľadom na kvantové kanály a spomenutej ekvivalencie. Vedľajším produktom je dôkaz, že veľká časť týchto entropií, a spolu s nimi aj Umegakiho-Arakiho relatívna entropia, je monotónna vzhľadom na všetky pozitívne stopu zachovávajúce zobrazenia, čo bolo doteraz známe iba pre faktory typu I.

**Autor:** **A. Jenčová**

**Projekt:** VEGA 2/0069/16

**Referencie:**

[1] A. Jenčová, Preservation of a quantum Renyi relative entropy implies existence of a recovery map, J. Phys. A: Math. Theor. 50 (2017), 085303

[2] A. Jenčová, Rényi relative entropies and noncommutative Lp-spaces, arXiv:1609.08462v3, 2016

[3] A. Jenčová, Rényi relative entropies and noncommutative Lp-spaces II, arxiv:1707.00047, 2017

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**Reversibility of quantum channels and a Rényi relative entropy for von Neumann algebras**

The family of Rényi relative α-entropies has important applications in information theory, including hypothesis testing and channel coding. Formally, there are many possible extensions to quantum states, but there are two such extensions that play a similar role as the classical counterparts. These are usually called the standard, resp. the sandwiched quantum Rényi relative α-entropies. While the standard version has been known and used for quite a while, the sandwiched entropies for density matrices were introduced relatively recently (M. Müller Lennert et al., J. Math. Phys. 54, 2013). One of the fundamental properties of the relative entropies in information theory is the data processing inequality (DPI), that is, monotonicity under channels. D. Petz (Quart. J. Math. Oxford, 39 (1988), 97-108) proved that preservation of the quantum (Umegaki-Araki) relative entropy for a pair of states is equivalent to reversibility of the channel with respect to these states. This means that there is some other channel through which both original states can be recovered. In a series of works [1-3], we extend the sandwiched quantum Rényi relative α-entropies to normal states on von Neumann algebras, using interpolation theory. We prove some of their properties, including DPI and the mentioned equivalence. As a by-product, we prove that a large class of these entropies, including the Umegaki-Araki relative entropy, is monotone under all positive trace-preserving maps. This was formerly known only for factors of type I.

**Author:** **A. Jenčová**

**Project:** VEGA 2/0069/16

**References:**

[1] A. Jenčová, Preservation of a quantum Renyi relative entropy implies existence of a recovery map, J. Phys. A: Math. Theor. 50 (2017), 085303

[2] A. Jenčová, Rényi relative entropies and noncommutative Lp-spaces, arXiv:1609.08462v3, 2016

[3] A. Jenčová, Rényi relative entropies and noncommutative Lp-spaces II, arxiv:1707.00047, 2017

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**O diferenciálnych rovniciach so zovšeobecnenými periodickými vzbudeniami**

Študujú sa periodické riešenia pre differenciálne rovnice druhého rádu so zovšeobecnenými periodickými vzbudeniami modelovanými Diracovými impulzami. Analytické bifurkačné výsledky sú odvodené pomocou tzv. Melnikovových podmienok pre existenciu zovšeobecnených periodických riešení pre Diracove impulzívne vzbudenia. Tieto výsledky sú aplikované na vzbudený harmonický ako aj na Duffingov oscilátor. Analytické výsledky sú ilustrované numerickými výpočtami.

**Autori:** **M. Fečkan**, **M. Pospíšil**

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

**Referencia**: M. Fečkan, M. Pospíšil: On equations with generalized periodic right-hand side, Ukrainian Mathematical Journal, (Dedicated to the 80th anniversary of the Academician of the NAS of Ukraine Anatoly Mykhailovych Samoilenko), in print 2018.

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**On differential equations with generalized periodic right-hand sides**

Periodic solutions are studied for second-order differential equations with generalized forcing modeled by Dirac impulses. Analytical bifurcation results are derived in terms of Melnikov like conditions for the existence of generalized periodic solutions under Dirac impulsive forcing. Applications to forced harmonic and Duffing oscillators are given. Analytical results are illustrated by numerical computations.

**Authors:** **M. Fečkan**, **M. Pospíšil**

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

**Referencia**: M. Fečkan, M. Pospíšil: On equations with generalized periodic right-hand side, Ukrainian Mathematical Journal, (Dedicated to the 80th anniversary of the Academician of the NAS of Ukraine Anatoly Mykhailovych Samoilenko), in print 2018.

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**O Bettiho číslach orientovaných Grassmanianov**

Predstavujeme úplnú funkcionálnu formulu, vyjadrujúcu i-te Z2-Bettiho číslo orientovanej Grassmannovej variety orientovaných 3-rozmerných vektorových podpriestorov v euklidovskom n-priestore pre i z rangu, určeného charakteristickým rangom kanonickej orientovanej 3-rozmernej vektorovej fibrácie nad touto varietou. Táto formula explicitne určuje počet lineárne nezávislých semiinvariantov stupňa 3 binárnej formy stupňa n-3. S použitím prístupu a dát prezentovaných v tomto článku, analogické výsledky možno odvodiť pre orientovanú Grassmannovu varietu orientovaných 4-rozmerných vektorových podpriestorov v euklidovskom n-priestore a semiinvarianty stupňa 4 binárnej formy stupňa n-4.

**Autor: J. Korbaš**

**Projekt:** VEGA 1/0101/17

**Referencia:** J. Korbaš, On the Betti Numbers of oriented Grassmannians and independent semi-invariants of binary forms, Mathematica Slovaca 67 (2017), No. 5, 1263-1268

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**On the Betti Numbers of oriented Grassmannians**

We present a complete functional formula expressing the i-th Z2-Betti number of the oriented Grassmann manifold of oriented 3-dimensional vector subspaces in Euclidean n-space for i from the range determined by the characteristic rank of the canonical oriented 3-dimensional vector bundle over this manifold. The same formula explicitly exhibits the number of linearly independent semi-invariants of degree 3 of a binary form of degree n-3. Using the approach and data presented in this paper, analogous results can be obtained for the oriented Grassmann manifold of oriented 4-dimensional vector subspaces in Euclidean n-space and semi-invariants of degree 4 of a binary form of degree n-4.

**Author: J. Korbaš**

**Project:** VEGA 1/0101/17

**Reference:** J. Korbaš, On the Betti Numbers of oriented Grassmannians and independent semi-invariants of binary forms, Mathematica Slovaca 67 (2017), No. 5, 1263-1268

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**Teória rozdelenia postupnosti**

V tejto knihe študujeme distribučné funkcie postupnosti *ξ*(3*/*2)*n* mod 1, racionálnych blokových postupností *Xn* = (*x*1*/xn*)*,..., (xn/xn)*, štatisticky nezávislých postupností, postupnosti *φ*(*n*) */ n*, kde *φ*(*n*) je Eulerova funkcia, zovšeobecnený Benfordov zákon, viacrozmerný Benfordov zákon a Gaussovu-Kuzminovu vetu. Tiež študujeme distribučné funkcie *g*(*x, y*), *g*(*x,* 1) = *x*, *g*(1, *y*) = *y*, ktoré sa nazývajú kopule a hľadáme extrémy ∫∫[0,1]2 *F*(*x, y*)d*x*d*yg*(*x, y*) cez kopule *g*(*x, y*).

**Autor: O. Strauch**

**Projekt:** VEGA 2/0146/14

**Referencia:** STRAUCH, O.: *Distribution of Sequences: A Theory*,

http://www.mat.savba.sk/musav/O Strauch, 2017, p. 510.

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**Distribution of Sequences: A Theory**

In this book we study distribution functions of the sequence *ξ*(3*/*2)*n* mod 1, ratio block sequences *Xn* = (*x1/xn*)*,..., (xn/xn)*, statistically independent sequences, uniformly maldistributed sequences, the sequence *φ*(*n*) */ n*, where *φ*(*n*) is Euler's function, generalized Benford's law, multidimensional Benford's law and Gauss-Kuzmin theorem. We also study distribution functions *g*(*x, y*), *g*(*x,* 1) = *x*, *g*(1*, y*) = *y* called copulas and extremes of ∫∫[0,1]2 *F*(*x, y*)d*x*d*yg*(*x, y*) over copulas *g*(*x, y*).

**Author: O. Strauch**

**Project:** VEGA 2/0146/14

**Reference:** STRAUCH, O.: *Distribution of Sequences: A Theory*,

http://www.mat.savba.sk/musav/O Strauch, 2017, p. 510.

**2.3.2. Aplikačný typ**

**Bootstrapové rozdelenie stochastického súčtu numerickou inverziou zloženej empricikej charakteristickej funkcie**

Predstavili sme metódu spočítania bootstrapového rozdelenia stochastického súčtu nezávislých spojitých náhodných veličín pomocou numerickej inverzie empirickej charakteristickej funkcie tohto súčtu. V konkrétnom prípade bol motiváciou klasický problém finančného risk manažmentu, poisťovníctva a modelovania v hydrológii. Prezentovala sa neparametrická metóda pre určenie celkového rozdelenia strát (ALD), ktorá je založená na kombinácii a numerickej inverzii empirickej charakteristickej funkcie (CFs) rozdelenia strát. Tento nový a originálny prístup určenia ALD je založený čisto na neparametrických postupoch, t.j. na použití a kombinovaní empirických CFs. Samozrejme sa tento postup dá zovšeobecniť na riešenie komplexnejšieho semi-parametrického problému, napríklad zahrnutím fitu zovšeobecneného Paretovho rozdelenia ťažkého chvosta individuálnej škody a/alebo uvažovaním váženej zmesi parametrických CFs (využitím modelovania expertných znalostí) a empirickej CFs (napríklad pri zahrnutí znalostí z historických dát). Ukázaná je jednoduchá, ale eficientná metóda a algoritmus pre numerickú inverziu CF, ktorá je vhodná pre určenie ALD a príslušných ukazovateľov dôležitých pre aplikácie, ako napr. hodnota v riziku (VaR). Popísaný postup je založený na kombinovaní Gilovej-Pelaezovej inverznej formuly pre určenie pravdepodobnostného rozdelenia (PDF a CDF) zo zloženej empirickej CFs a lichobežníkového pravidla používaného pre numerické integrovanie.

**Autori:** Viktor Witkovský (ÚM SAV), **Gejza Wimmer (MÚ SAV)**, Tomas Duby

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

**Referencia:** zaslané na publikovanie do Journal of Computational and Applied Mathematics.

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**Bootstrap distribution of a stochastic sum by numerical inversion of the compounded emprirical characteristic function**

We presented a method for evaluation of the bootstrap distribution of a stochastic sum of independent continuous random variables by numerical inversion of its empirical characteristic function. In particular, it is motivated by the classical problems in financial risk management, actuarial science and/or hydrological modeling. We have presented a non-parametric method for evaluation of the aggregate loss distribution (ALD) based on combining and numerically inverting the empirical characteristic functions (CFs). This approach applied to the compound distribution is based on purely non-parametric considerations, i.e., it is based on using and combining the empirical CFs, which is a new and original contribution. This approach can be, however, naturally generalized to a more complex semi-parametric modeling approach, e.g., by incorporating the generalized Pareto distribution fit of the severity distribution heavy tails, and/or by considering the weighted mixture of the parametric CFs (used to model the expert knowledge) and the empirical CFs (used to incorporate the knowledge based on the historical data - internal and/or external). We have shown a simple and efficient method and algorithms for numerical inversion of the CF, suitable for evaluation of the ALDs and the associated measures of interest important for applications, as, e.g., the value at risk (VaR). The presented approach is based on combination of the Gil-Pelaez inversion formulas for deriving the probability distribution (PDF and CDF) from the compound (empirical) CF and the trapezoidal rule used for numerical integration.

**Authors:** Viktor Witkovský (ÚM SAV), **Gejza Wimmer (MÚ SAV)**, Tomas Duby

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

**Reference:** submitted for publication in Journal of Computational and Applied Mathematics.

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**Lokalizácia havárií potrubí použitím masívnej paralelizácie na GPGPU**

Bola vyvinutá nová metóda určovania miesta havárie – roztrhnutia potrubia – pri transporte plynu. Na rozdiel od používaných metód lokalizácie sa dá táto metóda použiť aj v komplexných nelineárnych potrubných sieťach. Vďaka podstatnému urýchleniu simulovania roztrhnutí potrubia masívnou paralelizáciou, pomocou výpočtových kariet na grafických procesoroch (GPGPU), je miesto havárie určované on-line a metóda je teda použiteľná v nepretržitej reálnej prevádzke. Navyše metóda umožňuje lokalizáciu havárie aj v uzatvorenej časti potrubnej siete, kde je k dispozícii jediné meradlo tlaku.

**Autori: R. Hajossy**, **I. Mračka**, **P. Somora**, **T. Žáčik** (vedúci)

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

**Referencia:** I. Mračka, P. Somora, R. Hajossy, T. Žáčik: Localization of Gas Pipeline Rupture Using a Massive Parallelization on GPGPU. In: PSIG 2017, May 9–12, Atlanta, Georgia, USA

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**Localization of gas pipeline rupture using a massive parallelization on GPGPU**

A rupture localization method for transport gas pipelines was developed. The method, unlike to contemporary rupture localization methods, can be used also in complex nonlinear pipeline networks. Due to a significant acceleration of rupture simulations, using general computing on graphical processing units (GPGPU), an accident position is determined on-line and therefore it is applicable to real continuous operation. Moreover, the method enables rupture localization also in shut-off conditions of a pipeline subnetwork where only one pressure measurement is available.

**Authors:** **R. Hajossy**, **I. Mračka**, **P. Somora**, **T. Žáčik** (head)

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

**Reference:** I. Mračka, P. Somora, R. Hajossy, T. Žáčik: Localization of Gas Pipeline Rupture Using a Massive Parallelization on GPGPU. In: PSIG 2017, May 9–12, Atlanta, Georgia, USA

**2.3.3. Medzinárodné vedecké projekty**

**Asymptotická kvadratická konvergencia sériového blokového Jacobiho algoritmu**

Blokové algoritmy pre výpočet vlastných čísiel a vektorov Hermitovských matíc sú efektívnejšie ako ich sériové varianty, pretože lepšie využívajú hierarchickú pamäť súčasných počítačov. Pre skalárne algoritmy je známy dôkaz asymptotickej kvadratickej konvergencie v prípade jednoduchých a násobných vlastných čísiel a tiež klastrov, a to pre niektoré cyklické usporiadania nulovania mimodiagonálnych prvkov. V prípade blokovej metódy sú takéto dôkazy známe iba pre jednoduché vlastné čísla a opäť niektoré cyklické usporiadania nulovania mimodiagonálnych blokov. Podarilo sa nám dokázať asymptotickú kvadratickú konvergenciu blokového Jacobiho algoritmu pre ľubovoľnú distribúciu vlastných čísiel a pre nulovanie dvoch mimodiagonálnych blokov s najväčšou Frobeniovou normou v každom iteračnom kroku. Dôkaz je založený na charakterizovaní zmeny Frobeniovej normy mimodiagonálnych blokov, ktoré neboli nulované v danom iteračnom kroku, pričom v dokázanej vete vystupuje bližšie nešpecifikovaná konštanta. V ďalšom kroku je táto konštanta identifikovaná ako násobok spektrálnej medzery, t.j. minimálnej vzdialenosti medzi vlastnými číslami resp. stredmi ich klastrov. Táto identifikácia je založená na aplikácii Davisovej-Kahanovej lemy pre odhad spektrálnej normy riešenia maticovej Sylvestrovej rovnice. Numerické experimenty potvrdzujú platnosť odvodenej teórie.

**Autori:** **G. Okša (MÚ SAV),** Y. Yamamoto (University of Electro-Communications, Tokyo, Japan), **M. Vajteršic (MÚ SAV)**

**Projekty:** VEGA 2/0026/14

**Referencia:** Okša, G., Yamamoto, Y, Vajteršic, M.: Asymptotic quadratic convergence of the serial block/Jacobi EVD algorithm for Hermitian matrices, Numerische Mathematik 136, 1071-1095 (2017). DOI: 10.1007/s00211-016-0863-5

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**Asymptotic quadratic convergence of the serial block Jacobi algorithm**

Block algorithms for the computation of eigenvalues and eigenvectors of Hermitian matrices are more efficient than their serial variants due to the better utilization of a memory hierarchy in current computers. In the case of scalar algorithms, the proof of the quadratic asymptotic convergence is known for simple and multiple eigenvalues as well as for their clusters, and for some cyclic orderings used for zeroing the off-diagonal matrix elements. For block methods, such a proof is known only for simple eigenvalues, and again only for some cyclic orderings used for zeroing the off-diagonal matrix blocks. We have proved the asymptotic quadratic convergence of the serial block Jacobi algorithm regardless to the distribution of eigenvalues, and for zeroing of two off-diagonal matrix blocks with the largest Frobenius norm in each iteration step. The proof is based on the description of the change of the Frobenius norm for off-diagonal blocks that were not zeroed in a given iteration step. In the proved theorem, there is some un-specified constant. This constant is identified in next step as a portion of the spectral gap, i.e. the minimal distance between eigenvalues or between the centers of their clusters. The identification is based on the Davis-Kahan lemma, which provides the estimate of the spectral norm of the solution of certain Sylvester matrix equation. Numerical experiments confirm the developed theory.

**Authors:**  **G. Okša (MÚ SAV)**, Y. Yamamoto (University of Electro-Communications, Tokyo, Japan), **M. Vajteršic (MÚ SAV)**

**Projects:** VEGA 2/0026/14

**Reference:** Okša, G., Yamamoto, Y, Vajteršic, M.: Asymptotic quadratic convergence of the serial block/Jacobi EVD algorithm for Hermitian matrices, Numerische Mathematik 136, 1071-1095 (2017). DOI: 10.1007/s00211-016-0863-5

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**Normová spojitosť kvázispojitých zobrazení do Cp(Y)**

Použitím argumentov istej topologickej hry sme ukázali, že pri istých reštrikciách na topologický priestor X, každé kvázispojité zobrazenie z X do Cp(Y), priestoru všetkých spojitých funkcií z X do Y, vybavenom topológiou bodovej konvergencie, je spojité vzhľadom na normu na C(Y), v bodoch nejakej hustej Gδ podmnožiny X za predpokladu, že Y je totálne spočítateľne kompaktný. Podarilo sa nám zlepšiť niektoré staré výsledky týkajúce sa spojitosti separátne spojitých funkcií z článku J. Saint-Raymond, Jeux topologiques et espaces de Namioka, Proc. Amer. Math. Soc. 87 (1983), 499-504.

**Autori:** **Ľ. Holá (MÚ SAV)**, A. K. Mirmostafaee (University of Mashhad, Mashhad, Iran)

**Projekt:** VEGA 2/0006/16

**Referencia:** Ľ. Holá, A. K. Mirmostafaee, Norm continuity of quasicontinuous mappings into Cp(Y), prijaté do Colloquium Mathematicum

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**Norm continuity of quasicontinuous mappings into Cp(Y)**

We used a topological game argument to show that, under some restrictions on a topological space X every quasicontinuous mapping z X do Cp(Y) is norm continuous at points of a dense Gδ subset of X provided that Y is totally countably compact. We improved some old results on joint continuity of separately continuous functions from the paper J. Saint-Raymond, Jeux topologiques et espaces de Namioka, Proc. Amer. Math. Soc. 87 (1983), 499-504.

**Authors:** **Ľ. Holá (MÚ SAV)**, A.K. Mirmostafaee (University of Mashhad, Mashhad, Iran)

**Project:** VEGA 2/0006/16

**Reference:** Ľ. Holá, A. K. Mirmostafaee, Norm continuity of quasicontinuous mappings into Cp(Y), accepted in Colloquium Mathematicum

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**Optimálna správa bufferov pre zber informácií keď je tok správ riadený nepriateľom**

Študovali sme problém doručovania správ v stromoch s jediným cieľovým vrcholom. Počet prichádzajúcich správ za jednotku času je limitovaný, avšak miesta ich príchodov sú vyberané nepriateľským agentom. Zamerali sme sa na lokálnu správu komunikačných bufferov tak, aby žiadna správa nebola stratená a zároveň bola minimalizovaná potrebná veľkosť bufferov. Aj keď nedávno bol ukázaný centralizovaný algoritmus používajúci buffery konštantnej veľkosti, neboli známe žiadne lokálne algoritmy ktoré si vystačia so sublineárnymi bufferami.

V tomto článku sme ukázali dolný odhad Ω(c log n/l) pre všetky l-lokálne algoritmy pre skúmaný problém, kde c je kapacita liniek (a počet prichádzajúcich správ za jednotku času), prekvapivo jednoduchý 1-lokálny algoritmus riešiaci tento problém na cestách s použitím bufferov veľkosti O(log n) pre c=1 a prirodzené 2-lokálne zovšeobecnenie tohto algoritmu pre stromy.

**Autori: S. Dobrev (MÚ SAV)**, M. Lafond (Universite d'Ottawa, Ottawa, PQ, Canada), L. Narayanan (Concordia University, Montreal, PQ, Canada) , J. Opatrny (Concordia University, Montreal, PQ, Canada)

**Projekt:** VEGA 2/0165/16, NSERC grant

**Referencia:** Proceedings of the 29th ACM Symposium on Parallelism in Algorithms and Architectures, pp. 265-274, ACM

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**Optimal Local Buffer Management for Information Gathering with Adversarial Traffic**

We studied the problem of routing on directed paths and trees to a single destination, with rate-limited, adversarial traffic (the rate of incoming packets is limited, but the insertion locations of the packets is determined by an adversary). In particular, we focus on local buffer management algorithms that ensure no packet loss, while minimizing the size of the required buffers. While a centralized algorithm for the problem that uses constant-sized buffers has been recently shown, there is no known local algorithm that achieves a sub-linear buffer size.

We show three main results: A lower bound of Ω(c log n/l) for all l-local algorithms on both directed and undirected paths, where c is an upper bound on the link capacity and injection rate. A surprisingly simple 1-local algorithm for directed paths that uses buffers of size O(log n), when c=1. A natural 2-local extension of this algorithm to directed trees, for c=1, with the same asymptotic bound.

**Authors:** **S. Dobrev (MÚ SAV)**, M. Lafond (Universite d'Ottawa, Ottawa, PQ, Canada), L. Narayanan (Concordia University, Montreal, PQ, Canada) , J. Opatrny (Concordia University, Montreal, PQ, Canada)

**Project:** VEGA 2/0165/16, NSERC grant

**Reference:** Proceedings of the 29th ACM Symposium on Parallelism in Algorithms and Architectures, pp. 265-274, ACM

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |
| --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **Počet v r. 2017/ doplnky z r. 2016** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich   vydavateľstvách** (AAB, ABB) | **0 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných   vydavateľstvách** (AAA, ABA) | **3 / 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) | **1 / 0** |
| **7. Kapitoly v odborných monografiách, vysokoškolských učebniciach   a učebných textoch vydaných v domácich vydavateľstvách** (BBB, ACD) | **0 / 0** |
| **8. Kapitoly v odborných monografiách, vysokoškolských učebniciach   a učebných textoch vydaných v zahraničných vydavateľstvách**   (BBA, ACC) | **0 / 0** |
| **9. Vedecké práce registrované v Current Contents Connect**   (ADCA, ADCB, ADDA, ADDB) | **39 / 3** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo   Scopus** (ADMA, ADMB, ADNA, ADNB) | **20 / 3** |
| **11. Vedecké práce v ostatných domácich časopisoch**   (ADFA, ADFB) | **2 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**   (ADEA, ADEB) | **6 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**   (AEDA) | **0 / 0** |

|  |  |
| --- | --- |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**   (AECA) | **0 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**   (AFB, AFD) | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**   (AFA, AFC) | **0 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** |
| **18. Ostatné vydané periodiká** | **3** |
| **19. Zostavovateľské práce knižného charakteru**   (FAI) | **2 / 1** |
| **20. Preklady vedeckých a odborných textov**   (EAJ) | **0 / 0** |
| **21. Heslá v odborných terminologických slovníkoch a encyklopédiách**   (BDA, BDB) | **0 / 0** |
| **22. Recenzie v časopisoch a zborníkoch**   (EDI) | **0 / 0** |

*Evidujú 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. 2016 (zdroj JCR)**   *Počet článkov / doplnky 2015* | 14 / 2 | 14 / 1 | 8 / 0 | 9 / 1 | 45 / 4 |
| **Podľa SJR z r. 2016 (zdroj Scimago)**   *Počet článkov / doplnky 2015* | 22 / 2 | 18 / 2 | 10 / 1 | 1 / 1 | 51 / 6 |

Tabuľka 2g Ohlasy

|  |  |
| --- | --- |
| **OHLASY** | **Počet v r. 2016/ doplnky z r. 2015** |
| **Citácie vo WOS (1.1, 2.1)** | 854 / 10 |
| **Citácie v SCOPUS (1.2, 2.2)** | 64 / 7 |
| **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)** | 20 / 2 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 |

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 52 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 6 |

**Účasť a vedenie seminárov**

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

**vedúci:** R. Frič

**referáty:** J. Borsík, P. Eliaš, R. Frič, E. Halušková, M. Hospodár, G. Jirásková, I. Krajňáková, P. Mlynárčik, M. Palmovský, M.Ploščica, J. Pócs, M. Repický, D. Štiberová

**Spojité štruktúry v reálnej analýze**

**vedúci:** J. Borsík

**referáty:** J. Borsík (2x), R. Frič (3x)

**Seminár z teoretickej informatiky na FMFI UK**

**vedúci:** R. Královič (FMFI UK)

**referáty:** S. Dobrev (3x)

**účasť:** I. Vrťo

**Seminár z kvantových logík**

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

**referáty:** R. Frič

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

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

**vedúci:** L. Bukovský (PF UPJŠ)

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

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

**vedúci:** S. Krajči (PF UPJŠ)

**referáty:** R. Frič (3x), D. Štiberová

**účasť:** P. Eliaš

**Seminár z usporiadaných štruktúr na PF UPJŠ**

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

**referáty:** E. Halušková (4x), M. Ploščica (4x), J. Pócs (3x)

**Set-Valued Analysis**

**vedúci:** Ľ. Holá

**referáty:** B. Novotný (4x)

**Seminár z teoretickej informatiky**

**vedúci:** G. Jirásková

**referáty:** G. Jiráskova (3x)

**Seminár z teórie automatov**

**vedúci:** G. Jirásková

**referáty:** G. Jiráskova (5x)

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

**vedúci:** T. Macko

**referáty:** T. Macko (4x)

**Seminár z algebraickej geometrie na FMFI UK**

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

**referáty:** T. Macko (2x)

**RCQI seminár na FÚ SAV**

**vedúci:** M. Ziman (FÚ SAV)

**referáty:** M. Plávala (2x)

**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

**Konvexita a kategórie**

**vedúci:** A. Jenčová

**referáty:** A. Jenčová (4x)

**2.6. Vyžiadané prednášky**

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

 **FRIČ, R.**: *A dialogue/monologue on probability,* XXIVth Czech-Polish-Slovak Mathematical Conference, Ružomberok, 6.- 9. 6. 2017

 **JENČOVÁ, A.**: *Rényi relative entropies and noncommutative Lp-spaces*, Quantum Information Theory and Mathematical Physics, Budapest, 30.8. - 2. 9. 2017

 **NEDELA, R.**: *Complete regular dessins and skew-morphisms of cyclic groups*, Maps and Dessins, Banff International Research Station, Canada, 24. - 29. 9. 2017

 **NEMOGA, K.**: *Practical Cyber Security. Quantum Technology*, NATO Cyber Defence Cluster Workshop I, NATO HQ Brussels, Belgicko, 7. - 8. 6.2017

 **NEMOGA, K.**: *Current Trends in Cyber Defense*, NATO Cyber Defence Cluster Workshop II, NATO HQ Brussels, Belgicko, 11. - 12. 12. 2017

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

 **PÓCS, J.**: *Formálna konceptová analýza*, 49. Konferencia slovenských matematikov, Jasná pod Chopkom, 23. - 26. 11. 2017

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

**2.6.4. Prednášky na medzinárodných vedeckých podujatiach**

 **BEČKA, M.**: *New preconditioning for the one-sided block-Jacobi SVD algorithm*, PPAM '17, Lublin, 10. - 13. 9. 2017

 CZYZOWICZ, J.— **DOBREV, S.**— GODON, M.— KRANAKIS, R.— SAKAI, T.— URRUTIA, J.: *Searching for a Non-adversarial, Uncooperative Agent on a Cycle*, ALGOSENSORS 2017, Viedeň, Rakúsko, 4. - 8. 9. 2017

 **ČUNDERLÍKOVÁ, K.**: *About Fisher-Tippett-Gnedenko Theorem for Intuitionistic Fuzzy Events*, The 10th Conference of the European Society for Fuzzy Logic and Technology, 11. - 15. 9. 2017 and IWIFSGN'2017 (The 16th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets), 13. - 15. 9. 2017, Warsaw, Poland

 **DOBREV, S.**: *Exploring Dangerous Graphs*, Moving and Computing 2017, TU Vienna, Rakúsko, 16. 10. 2017

 **DOBREV, S.**— KRÁLOVIČ, R.— PARDUBSKÁ, D.: *Treasure Hunt with Barely Communicating Agents*, OPODIS 2017, Lisabon, Portugalsko, 18. - 20. 12. 2017

 ĎURIŠ, S.— ĎURIŠOVÁ, Z.— DOVICA, M.— **WIMMER, G.**: *EIV calibration of gas mixture of ethanol in nitrogen*, AMCTM 2017, Advanced Mathematical and Computational Tools in Metrology and Testing, University of Strathclyde, Glasgow, Veľká Británia, 29-31.8.2017

 **ELIAŠ, P.**: *Decomposing the domains of continuous real functions*, 31st International Summer Conference on Real Functions Theory, Ustka, Poľsko, 10. - 15. 9. 2017

 **FRIČ, R.**: *Real functions in stochastic dependence,* XXXIth International Summer Conference on Real Functions Theory, Ustka, Poland, 10. - 15. 9. 2017

 **FRIČ, R.**— **ELIAŠ, P.**—**PAPČO, M.**: *On stochastic independence in quantum/fuzzy probability*, 14th International Conference on Quantum Physics and Logic and IQSA Quantum Structures Workshop, iCIS, Radboud University Nijmegen, The Netherlands 3. - 7. 7. 2017

 **HALUŠKOVÁ, E.**: *The Endomorphism Kernel Property for Monounary Algebras,* AALCS XXI, Zakopané, Poľsko, 20.-26.3.2017

 **HALUŠKOVÁ, E.**: *On limit closed classes of algebras, AAA94*, Novi Sad, Srbsko, 15. - 18. 6. 2017

 **HALUŠKOVÁ, E.**: *EKP for monounary algebras, 55th SSAOS*, Nový Smokovec, 3. - 8. 9.2017

 **HOSPODÁR, M.**: *The Story of Concatenation, Černý's Conjecture and Optimization Problems on Finite Automata*, Opava, ČR, 16. - 17. 5. 2017

 **JENČOVÁ, A.**: *Nonclassical features in general probabilistic theories (poster)*, QPL 2017, Nijmegen, Holandsko, 3. - 7. 7. 2017

 **JENČOVÁ, A.**: *Nonclassical features in general probabilistic theories (poster)*, Quantrum Networks 2017, Oxford, Veľká Británia, 1. - 4. 8. 2017

 JIRÁSEK, J. JR.—, **PALMOVSKÝ, M.**— ŠEBEJ, J.: *Kuratowski Algebras Generated by Factor-, Subword-, and Suffix-Free Languages*, DCFS '17, Milano, Italy, 3. - 5. 7. 2017

 **JIRÁSKOVÁ, G.**: *On the Descriptive Complexity of Σ\*L*, DLT 2017, Liege, Belgicko, 7. - 11. 8. 2017

 **JIRÁSKOVÁ, G.**—**PALMOVSKÝ, M.**: *Star-complement-star and Kuratowski algebras on prefix-free languages*, NCMA '17, Prague, Czech Republic, 17. - 18. 8. 2017

 **KRAJŇÁKOVÁ, I.**: *Square on Deterministic. Alternating Finite Automata, Černý's conjecture and optimization problems*, Opava, ČR, 16. - 17. 5. 2017

 **KRAJŇÁKOVÁ, I.**— **JIRÁSKOVÁ, G.**: *Square on Deterministic. Alternating and Boolean Finite Automata*, DCFS 2017, Miláno, Taliansko, 3. - 5. 7. 2017

 KUTIL, R.— FLATZ, M.— **VAJTERŠIC, M.**: *Improvements in approximation performance and parallelization of Nonnegative Matrix Factorization with Newton iteration*, HPCS 2017, Genoa, Taliansko, 17. - 22. 7. 2017

 KUTIL, R.— FLATZ, M.— **VAJTERŠIC, M.**: *Convergence and parallelization of Nonnegative Matrix Factorization with Newton iteration*, PARNUM 2017, Weischenfeld, Nemecko, 19. - 21. 4. 2017

 **HOLÁ, Ľ.**—HOLÝ, D.: *Graph quasicontinuous functions*, 31st International Summer Conference on Real Functions Theory, Ustka, Poland, 10. - 15. 9. 2017

 **HOLÁ, Ľ.**—KWIECINSKA, G.: *Topological convergence of set-valued maps*, 31st International Summer Conference on Real Functions Theory, Ustka, Poland, 10. - 15. 9. 2017

 **MICHALÍKOVÁ, A.**—**RIEČAN, B.**: *On the Lebegue IF-measure*, 21th International Conference on Intuitionistic Fuzzy Sets. Burgas, Bulgary, 22. - 23. 5. 2017

 **MICHALÍKOVÁ, A.**—**RIEČAN, B.**: *On Invariant Measures on Intuitionistic Fuzzy Sets*, IWIFSGN'2017 (The Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets), 13. - 15. 9. 2017, The 10th Conference of the European Society for Fuzzy Logic and Technology, Warsaw, Poland, 11. - 15. 9. 2017

 **MICHALÍKOVÁ, A.**—DOUKOVSKA, L.: *InterCriteria Analysis of Bechterev's kinesitherapy program*, IWIFSGN'2017 (The Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets), 13. - 15. 9. 2017, The 10th Conference of the European Society for Fuzzy Logic and Technology, Warsaw, Poland, 11. - 15. 9. 2017

28. **MLYNÁRČIK, P.**: *Nondeterministic Complexity of Operations on Closed and Ideal Languages*, Černý's conjecture and optimization problems on finite automata, Opava, ČR, 16. - 17. 5. 2017

29. **MLYNÁRČIK, P.**: *Nondeterministic complexity of operations on free and convex languages*, CIAA 2017 (22nd International Conference on Implementation and Application of Automata), Paríž, Francúzsko, 25. 6. - 1. 7. 2017

 **MRAČKA, I.**—**ŽÁČIK, T.**—**HAJOSSY, R.**: Localization of Gas Pipeline Rupture Using a Massive Parallelization on GPGPU, PSIG 2017, Atlanta Georgia, USA, 10. - 12. 5. 2017

 **NOVOTNÝ, B.**— **HOLÁ,** Ľ: *Topological properties of the space of minimal cusco maps*, XXXI International Summer Conference on Real Functions Theory, Ustka, Poland, 10. - 15. 9. 2017

 **OKŠA, G.**— YAMAMOTO, Y.— **BEČKA, M.**— **VAJTERŠIC, M.**: *Convergence of the parallel Block-Jacobi EVD algorithm for Hermitian matrices*, PARNUM 2017, Weischenfeld, Nemecko, 19. - 21. 4. 2017

 **OKŠA, G.**: *Convergence of the parallel Block-Jacobi EVD algorithm for Hermitian matrices*, PARNUM 2017, Waischenfeld, Nemecko, 19. - 21. 4. 2017

 PALENČÁR, R.— **WIMMER, G.**— KLVÁČOVÁ, S.— **WITKOVSKÝ, V.**: *Two Approaches to Obtain the Calibration Line*, MEASUREMENT 2017, Smolenice, 29. - 31. 5. 2017

 **PLÁVALA, M.**: *All measurements in a probabilistic theory are compatible if and only if the state space is a simplex* (poster), TQC 2017, Paris, Francúzsko, 14. - 16. 6. 2017

 **PLÁVALA, M.**: *Conditions on the compatibility of channels in General Probabilistic Theory and their connection to steering and Bell non-locality*, Quantum Incompatibility 2017, Maria Laach, Nemecko, 28. 8. - 1. 9. 2017

 **PLOŠČICA, M.**: *Critical points for congruence lattices*, Arbeitstagung Allgemeine Algebra 94, Novi Sad, Srbsko, 15. - 19. 6. 2017

 **PLOŠČICA, M.**: *Congruence lattices of majority algebras*, Summer School on General Algebra and Ordered sets, Nový Smokovec, 3. - 8. 9. 2017

 **PULMANNOVÁ, S.**: *The Loomis-Sikorski theorem and functional calculus for synaptic algebras*, TACL 2017, Praha, ČR, 26. - 30. 6. 2017

 **PULMANNOVÁ, S.**: *Halmos two subspaces theorem on synaptic algebras*, The 55th Summer School on Algebra and Ordered Sets, Nový Smokovec, 3. - 8. 9. 2017

 SOTIROVA, E.—**MICHALÍKOVÁ, A.**: Application of InterCriteria Analysis to the universities ranking system in Slovak Republic, 21th International Conference on Intuitionistic Fuzzy Sets. Burgas, Bulgary, 22. - 23. 5. 2017

 **ŠTIBEROVÁ, D.**: *Fuzzification of probability and mathematical structures*, 18th International Student Conference on Applied Mathematics and Informatics, Malenovice, ČR, 8. - 11. 6. 2017

 **ŠTIBEROVÁ, D.**: *State as a linearization*, IQSA Quantum Structures Workshop, Nijmegen, Holandsko, 4. - 7. 7. 2017

 **WIMMER, G.**— ĎURIŠ, S.— PALENČÁR, R.— WITKOVSKÝ, V.: *EIV calibration model of thermocouples*, AMCTM 2017 (Advanced Mathematical and Computational Tools in Metrology and Testing), University of Strathclyde, Glasgow, Veľká Británia, 29. - 31. 8. 2017

 **WIMMER, G.**— WITKOVSKÝ, V.: *Demodulation and Uncertainty Evaluation of Quadrature Interferometer Signals when the Errors are Autoregressive*, MEASUREMENT 2017, Smolenice, 29. - 31. 5. 2017

 WITKOVSKÝ, V.— **WIMMER, G.**— ĎURIŠOVÁ, Z.— ĎURIŠ, S.— PALENČÁR, R.: *Brief Overview of Methods for Measurement Uncertainty Analysis: GUM Uncertainty Framework, Monte Carlo Method, Characteristic Function Approach*, MEASUREMENT 2017, Smolenice, 29. - 31. 5. 2017

 WITKOVSKÝ, V.— **WIMMER, G.**— ĎURIŠOVÁ, Z.— ĎURIŠ, S.— PALENČÁR, R.— PALENČÁR, J.: *Modeling and evaluating the distribution of the output quantity in measurement models with copula dependent input quantities*, AMCTM 2017, Advanced Mathematical and Computational Tools in Metrology and Testing, University of Strathclyde, Glasgow, Veľká Británia, 29. - 31. 8. 2017

**2.6.5. Prednášky na domácich vedeckých podujatiach**

 **ČUNDERLÍKOVÁ, K.**: Intuitionistic fuzzy partition, Workshop on Intuitionistic fuzzy sets, Banská Bystrica, 9.9.2017

 **HOSPODÁR, M.**: *Príbeh zreťazenia*, 18. Konferencia košických matematikov, Herľany, 20. - 22. 4. 2017

 **JIRÁSKOVÁ, G.**: *Descriptional complexity of forever operator*, EAADS 2017, Košice, 14. - 16. 11. 2017

4. **MLYNÁRČIK, P.**: *Complement on Free and Ideal Language*, 18. Konferencia košických matematikov, Herľany, 20. - 22. 4. 2017

 **RIEČAN, B.**: *φ-entropy of IF-partitions*, Workshop on Intuitionistic fuzzy sets, Banská Bystrica, 9.9.2017

**2.6.6. Prednášky na významných vedeckých inštitúciách**

 **NEDELA, R.**: *Hamiltonicity in 'symmetrical' graphs and maps*, FAV ZČU Plzeň, ČR, 28. 11. 2017

 **NEDELA, R.**: *Harmonic morphisms of graphs*, séria 4 prednášok pre doktorandov, Shanghai Jiaotong University, Čína, 23. 4. - 7. 5. 2017

 **OKŠA, G.**— YAMAMOTO, Y.— **BEČKA, M.**— **VAJTERŠIC, M.**: *Asymptotic quadratic convergence of the parallel block-Jacobi EVD algorithm for Hermitian matrices*, Fakulta matematiky, fyziky a informatiky, Univerzita Komenského, Bratislava, 10. 11. 2017

 **VAJTERŠIC, M.**: *Some new trends in algorithms for HPC*, Escuela Técnica Superior de Ingenieros Informáticos (ETSIINF). Universidad Politecnica de Madrid (UPM), Španielsko, 10. 5. 2017

**2.6.7. Ostatné prednášky a vývesky**

 **JIRÁSKOVÁ, G.**: *O počte prvočísel menších ako daná hodnota*, Matematický piatok, Opava, ČR, 1. 12. 2017

 **MACKO, T.**: *Topology of high-dimensional manifolds*, Seminár MÚ SAV, 23. 5. 2017

 **MICHALÍKOVÁ, A.**: Kurz IF-IS MOD 04 "*Fuzzy sets and their application in systems which work with IF-THEN rules*", 20th Summer University of Informatica Feminale, Univ. Bremen, Nemecko, 7. - 25. 8. 2017

4. **MLYNÁRČIK, P.**: *NCMA 2018* (infomácia o nasledujúcej konferencii, ktorú bude organizovť MÚ SAV, Košice), NCMA 2017 (9th Workshop on Non-Classical Models of Automata and Aplications), Praha, ČR, 16. - 19. 8. 2017

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

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2017**

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

**2.7.2. Prihlásené vynálezy**

**2.7.3. Predané licencie**

**2.7.4. Realizované patenty**   
*Finančný prínos pre organizáciu SAV v roku 2017 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** |

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

Počet autorov hesiel: 0

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Meno pracovníka** | **Knižné monografie** | | **Príspevky v časopisoch** | | | **Zborníky** | |
| **Domáce** | **Zahra-  ničné** | **WoS, SCOPUS** | **Iné databázy** | **Ostatné** | **Domáce** | **Zahra-  ničné** |
| Borsík Ján | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Dobrev Stefan | 0 | 0 | 4 | 0 | 0 | 4 | 3 |
| Dvurečenskij Anatolij | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Eliaš Peter | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Fečkan Michal | 0 | 0 | 33 | 0 | 5 | 1 | 0 |
| Holá Ľubica | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Hospodár Michal | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Hyčko Marek | 0 | 0 | 11 | 7 | 3 | 0 | 0 |
| Jenčová Anna | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Jirásková Galina | 0 | 0 | 7 | 0 | 0 | 0 | 4 |
| Kochol Martin | 0 | 0 | 4 | 1 | 0 | 0 | 0 |
| Macko Tibor | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Nemoga Karol | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Palmovský Matúš | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Ploščica Miroslav | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Pócs Jozef | 0 | 0 | 7 | 0 | 0 | 0 | 1 |
| Pulmannová Sylvia | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Repický Miroslav | 0 | 0 | 2 | 1 | 1 | 0 | 0 |
| Vajteršic Marian | 0 | 0 | 1 | 1 | 0 | 0 | 39 |
| Vinceková Elena | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Vrťo Imrich | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Wimmer Gejza | 1 | 0 | 5 | 0 | 1 | 2 | 0 |
| **Spolu** | **1** | **0** | **123** | **10** | **10** | **7** | **53** |

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

**Ostatné dosiahnuté výsledky:**

 Navrhli sme nové predpodmienenie pre jednostranný blokový Jacobiho SVD algoritmus. Namiesto matice A, vstupom do algoritmu je matica AV, kde V je matica vlastných vektorov matice ATA. Keďže existuje rýchly algoritmus pre problém vlastných čísel ako aj rýchla implementácia maticového násobenia, dostávame dosť rýchlo kvadratickú konvergenciu Jacobiho procesu. Pre dobre podmienené matice je náš algoritmus rýchlejší ako SVD algoritmus rozdeľuj a panuj, ktorý je považovaný za najrýchlejšiu metódu na výpočet SVD.

 Boli charakterizované body silnej kvázispojitosti.

 Zaoberali sme sa optimálnymi všeobecnými podmienkami postačujúcimi pre jednoznačnú riešiteľnosť okrajovej úlohy pre nelineárne funkcionálno-diferenciálne systémy druhého rádu.

 Pri probléme prebudenia distribuovanej siete (reprezentovanej grafom) neprázdna podmnožina vrcholov spontánne začne výpočet; cieľom je zobudiť (doručenou správou) každý vrchol siete. Ukázali sme, že problém prebudenia je na hyperkockách, úplných bipartitných grafoch a klikách rovnako náročný, ako (zdanlivo omnoho náročnejší) problém voľby šéfa.

 Študovali sme poradnú zložitosť online verzie problému množinového pokrytia. Ukázali sme lineárny dolný aj horný odhad pre poradnú zložitosť na dosiahnutie optimálneho riešenia. Ak nám stačí c-kompetitívne riešenie, O((n log c)/c) bitov rady je postačujúcich; táto hranica je tesná až na faktor O(log c).

 Ukázali sme tesné dolné a horné odhady pre pre problém hľadania indiferentného agenta (ani nepomáha hľadaniu, ani sa aktívne nájdeniu nevyhýba) pohybujúceho sa ustálenou rýchlosťou v cykle. Analyzovali sme všetky kombinácie toho, čo je známe o smere a rýchlosti hľadaného agenta.

 Študovali sme problém slabého hraničného pokrytia obdĺžnikovej hranice: n mobilných senzorov je spočiatku umiestnených v obdĺžnikovej oblasti. Cieľom je presunúť tieto senzory tak, aby žiaden votrelec nebol schopný prejsť danou oblasťou, ak sa pohybuje len po priamke rovnobežnej s hranicami oblasti. Ukázali sme viaceré odhady a NP-úplnosti pre rôzne miery ceny presunu (MinNum/MinSum/MinMax)

 Navrhli a zanalyzovali sme jednoduchý lokálny algoritmus na správu sieťových bufferov pre nepriateľský model vkladania správ pre stromové siete s jedným cieľovým vrcholom. Dosiahli sme prvý lokálny algoritmus ktorý dosahuje veľkosť bufferov O(log n) (najlepšie predchádzajúce používali buffre veľkosti O(n0.5) a ukázali sme asymptotickú tesnosť tohto výsledku.

 Ukázali sme viacero výsledkov pre poradnú zložitosť k-server problému: dolný odhad počtu bitov rady potrebných na dosiahnutie optimality, horné odhady pre všeobecný a Euklidovský prípad. Vo všeobecnom prípade sme zlepšili predchádzajúce výsledky o exponenciálny faktor; pre Euklidovský prípad sme ukázali konštantnú aproximáciu použitím rad konštantnej veľkosti.

 Na množine ohraničených pozorovateľných sme definovali Olsonovo usporiadanie a tiež usporiadanie pomocou σ-aditívnych stavov. Ukázali sme, že ostré pozorovateľné tvoria Dedekindovský σ-úplný podzväz vzhľadom na Olsonovo usporiadanie a porovnali sme obe usporiadania a ilustrovali ich na rôznych efektových algebrách.

 Definovali sme súčet dvoch pozorovateľných na MV-efektových algebrách.

 Charakterizovali sme efektové a pseudo efektové algebry, ktoré sa dajú reprezentovať ako interval v lexikografickom súčine antizväzovej unitálnej grupe (H,u) and usmernenej po-grupe G, obe s Rieszovou dekompozičnou vlastnosťou.

 Študovali sme podmienky, kedy určitý typ Rieszovej dekompozičnej vlastnosti platí v lexikografickom súčine dvoch po-grúp.

 Popísali sme systémy spojitých funkcií a podmnožín reálnej priamky uzavreté vzhľadom na operácie súvisiace s Galoisovou konexiou definovanou pomocou zužovania definičného oboru funkcií a aproximácie polynomiálnymi funkciami.

 Pomocou pojmu stochastického kanálu bola definovaná asymetrická stochastická nezávislosť. Symetrická nezávislosť je konjunkciou dvoch asymetrických nezávislostí. Ako dôsledok dostávame: a) nezávislosť dvoch polí náhodných fuzzy udalostí je ekvivalentná nezávislosti klasických podpolí ostrých javov; b) asymetrická stochastická závislosť generuje zovšeobecnenú podmienenú pravdepodobnosť, ktorá je kompatibilná s publikovanými konštrukciami.

 Nech je D nezáporná polpriamka. Nech En je reálny Euklidov priestor s dimenziou n=2 alebo n=4. Nech P je pravidelný mnohosten s centrom v začiatku súradníc s vrcholmi V1, V2, ..., Vn, Vn+1, kde V\_1 = (1,0,0, ..., 0). Ak n=2,4, obálka Sn je pole vzhľadom na pravidlo krátenia. Pravidlo krátenia dáva jednorozmerný ideál K v poli S. Ak n=2, máme (Red - Green - Blue) teóriu farby pre zrak, fotografiu, tlačiarenské systémy pre farebnú tlač. Ak n=4, existuje len jediný pravidelný mnohosten s nepárnym počtom vrcholov, a to pentachoron (iný názov 4-simplex). Našli sme jediné pole v E4 vzhľadom na pravidlo krátenia (dáva jednorozmerný ideál). Poznamenajme, že s presnosťou do izomorfizmu existujú len dva nekonečné Archimedovské polia nad reálnymi číslami, množina všetkých reálnych čísel samotná a množina všetkých eliptických komplexných čísel.

 Zaoberali sme sa vlastnosťami tried algebier uzavretých vzhľadom na tvorbu inverzných limít z hľadiska teórie modelov. Definovali sme triedu viet T takú, že trieda modelov každej vety z T je uzavretá vzhľadom na inverzné limity. Je možné, že každá axiomatická trieda uzavretá na inverzné limity je triedou modelov nejakých viet z T.

 Študovala sa vlastnosť EKP pre monounárne algebry. Popísali sme niekoľko tried nekonečných algebier s touto vlastnosťou. Pozorovali sme podalgebry algebry s EKP, ktoré túto vlastnosť dedia.

 Nech X je lokálne kompaktný topologický priestor a (Y,d) je ohraničene kompaktný topologický priestor. Charakterizovali sme kompaktné podmnožiny priestoru Q(X,Y), kvázispojitých funkcií z X do Y, vybavených topológiou rovnomernej konvergencie na kompaktoch.

 Študovali sme nedeterministickú stavovú zložitosť základných regulárnych operácií na triedach bezpredponových, bezpríponových, bezfaktorových, bezpodslovových a predponovo, príponovo, faktorovo a podslovovo konvexných regulárnych jazykov. Pre operácie prienik, zjednotenie, zreťazenie, štvorec, hviezdička, zrkadlový obraz a doplnok sme dostali tesné horné hranice pre všetky uvažované triedy okrem doplnku na faktorovo a podslovovo konvexných jazykoch. Väčšina našich witnessov bola popísaná na optimálnych abecedách. Najzaujímavejší výsledok bolo popísanie vlastného príponovo konvexného jazyka na päťpísmenovej abecede dosahujúceho hornú hranicu 2n pre doplnok.

 Skúmali sme popisnú zložitosť operátora "navždy", ktorý regulárnemu jazyku L priradí jazyk , a zaoberali sme sa prevodmi medzi rôznymi modelmi konečných automatov. Uvažovali sme úplné a čiastočné deterministické konečné automaty, nedeterministické konečné automaty s jedným alebo viacerými stavmi, alternujúce, a booleovské konečné automaty. Predpokladali sme, že argument a výsledok tejto operácie sú akceptované automatmi patriacimi do jedného z týchto šiestich modelov. Zaoberali sme sa všetkými možnými prevodmi a poskytli sme tesnú hornú hranicu pre 32 z 36 možných. Najzaujímavejším výsledkom bol prevod z nedeterministických do deterministických automatov, určený Dedekindovým číslom M(n-1). Tiež sme dokázali, že nedeterministická stavová zložitosť operácie "navždy" () je 2n−1, čo rieši otvorený problém položený Birgetom [1996, The state complexity of overline{Σ^∗overline{L}} and its connection with temporal logic, Inform. Process. Lett. 58, 185–188].

 Zaoberali sme sa stavovou zložitosťou jazykov vytvorených operáciou cut na dvoch regulárnych jazykoch reprezentovaných deterministickými konečnými automatmi s m a n stavmi. Študovali sme problém magických čísel pre operáciu cut a ukázali sme, že celý rozsah zložitostí až po známu hornú hranicu môže byť vytvorený v prípade binárnych abecied. Navyše, ukázali sme, že v unárnom prípade ibe zložitosti od 1 do 2m-1 a od n do m+n-2 môžu byť vytvorené.

 Študovali sa vlastnosti nekomutatívneho zovšeobecnenia hyper efektových algebier, tzv. hyper pseudo efektových algebier.

 Študovali sme neklasické javy, ako nekompatibilita meraní, steering a Bellova nelokalita, a ich vzťahy vo všeobecných pravdepodobnostných teóriách. Dokázali sme, že tieto javy sa dajú popísať a kvantifikovať použitím tenzorových súčinov stavového priestoru s polysimplexami.

 Vo všeobecných probabilistických teóriách sme charakterizovali maximálne nekompatibilné dvojice dvojvýsledkových meraní.

 Skúmali sme 2-kategóriu monoidov v kategórii Rel množín a relácií a niektoré zaujímavé subkategórie, napr. parciálne monoidy (efektové algebry). Ukázali sme, že 2-štruktúra vedie ku niektorým zavedeným pojmom v týchto kategóriach.

 Zistili sme nedeterministickú zložitosť základných regulárnych operácií na podtriedach konvexných jazykov.

 Získali sme presnú zložitosť operácie štvorec na deterministických, alternujúcich, a booleovských automatoch.

 Skúmali sme popisnú zložitosť operátora "forever" na rôznych modeloch konečných automatov.

 Študovali sme Kuratowského algebry generované prefix-, factor- a subword-free jazykmi vzhľadom na operácie pozitívneho uzáveru a doplnku.

 Venovali sme sa štúdiu Tutte-Grothendieckových invariantov (TG-invariantov) na grafoch. Medzi tieto invarianty patria Tuttové, tokové a napäťové polynómy. Dokazujeme, že pre ľubovoľný hranový rez v grafe sú tieto invarianty jednoznačne charakterizované minormi pozostávajúcimi z hrán rezu ako aj hrán jedného z podgrafov vznikajúcich vynechaním týchto hrán. Zavádzame matice ktorých prvkami sú TG-invarianty na jednotlivých minoroch. Determinanty týchto matíc jednoznačne určujú invariant celého grafu. Podrobne študujeme optimálne rozmery týchto matíc pre Tuttové a tokové polynómy.

 Prestavili sme explicitnú formulu pre Z2-pohárovú dĺžku rotačnej grupy SO(n).

 Doladili sa detaily v štúdiu súčinových formúl kvadratických reťazcových komplexov nad diskovými komplexami.

 Študovali sme akciu grupy homotopických automorfizmov na štruktúrnej množine variety v zmysle teórie chirurgií, ukázali sme, že v jednoduchosúvislom prípade nekonečná štruktúrna množina implikuje nekonečnú faktorovú množinu tejto akcie.

 Dosiahli sme nové výsledky o priestoroch minimálnych konvexných usco zobrazeniach, ktoré sú dôležité napríklad pre štúdium subdiferenciálov.

 Získali sme dôkaz asymptotickej kvadratickej konvergencie paralelného Jacobiho algoritmu s dynamickým usporiadaním pre výpočet vlastných čísiel a vektorov Hermitovských matíc.

 Našli sa podmienky pre kompatibilitu kanálov vo všeobecnej teórii pravdepodobnosti a ich vzťah k steeringu a Bellovej nelokalite.

 Zaviedli sme pojem kongruenčne FD-maximálnej algebry. Popísali sme viaceré typy takých algebier a študovali sme ich úlohu v kongruenčne FD-maximálnych varietách.

 Boli študované zovšeobecnenia pojmu komonotónnosti zväzovo ohodnotených vektorov. Ukázalo sa, že na distributívnych zväzoch sa tieto relácie zhodujú, pričom majú podobné vlastnosti ako v prípade vektorov s reálnymi hodnotami. Na základe týchto nových zovšeobecnení pojmu komonotónnosti bola popísaných niekoľko axiomatických charakterizácií L-hodnotového Sugenovho integrálu. Pomocou jednej z týchto charakterizácií je možné výrazne znížiť výpočtovú zložitosť týkajúcu sa rozhodnutia, či daná agregačná funkcia je Sugenovým integrálom.

 Pre komutatívne generalizované hermitovské algebry (zovšeobecnenie algebry hermitovských operátorov na Hilbertovom priestore) bola nájdená zovšeobecnená verzia vety Loomisa-Sikorského. Pomocou nej bolo ukázané, že každý prvok generalizovanej hermitovskej algebry zodpovedá reálnej pozorovateľnej, a bol formulovaný spojitý funkcionálny kalkulus pre tieto pozorovateľné.

 Pomocou representačnej vety pre JB-algebry bol nájdený vzťah medzi Banachovými synaptickými algebrami a Rickartovými C\*-algebrami.

 Boli nájdené podmienky, za ktorých Banachova synaptická algebra je izomorfná podalgebre AW\*-algebry.

 Pre synaptické algebry, ktorých projekcie tvoria úplný ortomodulárny zväz, bol dokázaný analóg Kadisonovej vety pre von Neumannove algebry: synaptická algebra s uvedenou vlastnosťou je faktor práve vtedy, keď jej prvky tvoria antizväz.

 Získali sa nové výsledky o ideálových verziách Jegorovovej vety a zovšeobecnenej Jegorovovej vety.

 Zovšeobecnená pravdepodobnostná teória bola opísaná v jazyku A-posetov. Prechod od pravdepodobnostnej miery k pravdepodobnostnému integrálu bol vysvetlený kategoriálnymi argumentami: existuje minimálna kategória a jej epireflektívna podkategória, tak že pravdepodobnostná miera a integrál sú morfizmy a množina fuzzy udalostí je epireflexiou množiny klasických náhodných udalostí.

 Získalo sa vylepšenie konvergenčných vlastnosti paralelného algoritmu pre faktorizáciu nezáporných matíc (NMF).

 Odhady korelačného koeficienta a parametrov autoregresného procesu šumu boli použité v iteračnom algoritme pre demoduláciu a ohodnotenie neistoty amplitúdového šumu skorelovaných signálov kvadratúrneho interferometra.

 Odhadované boli parametre lineárnej funkcie, ktorá vyjadruje závislosť (bezchybných) meraných hodnôt na kalibrovanom meradle od (bezchybných) hodnôt meraných na etalóne. Určovali sa aj neistoty odhadovaných parametrov. Problém bol riešený dvoma spôsobmi. Prvý je aproximatívna metóda, ktorá využíva lineárny model nepriamych meraní, druhý spôsob je prístup využívajúci linearizovaný model priamych meraní s nelineárnymi podmienkami na parametre.

 Ukázaný bol alternatívny prístup pre vytvorenie "state-of-knowledge" distribúcie skalárnej výstupnej veličiny v lineárnom modeli merania. Tento prístup je založený na numerickej inverzii charakteristickej funkcie "state-of-knowledge" distribúcie, ktorá je vlastne Furierovou transformáciou hustoty. Ukázaný je aj stručný prehľad a niekoľko poznámok k aplikovateľnosti tohto prístupu pri analýze neistôt, s dôrazom na riešenie pomocou charakteristickej funkcie.

 Zdôraznené boli výhody použitia prístupu cez charakteristické funkcie pri vzorkovaní z distribúcie výstupnej veličiny Y, založené na združenej distribúcii typu kopula vstupných veličín Xi s danými marginálnymi distribúciami, aplikujúc vyhodnotenia neistôt Typu A alebo Typu B.

 Predstavená bola nová štatistická procedúra pre kalibráciu termočlánkov. Táto procedúra popisuje kalibračný model ako multivariatný model s chybami v premenných, ktorý je linearizovaný a výsledné riešenie je nájdené pomocou iterácií.

 Analyzovaný bol lineárny model kalibrácie s chybami v premenných pre kalibráciu zmesi plynov etanolu v dusíku s neznámou koncentráciou. Navrhnutý bol nový prístup k určeniu tejto neznámej koncentrácie pomocou kalibračnej priamky, ktorú dostaneme modelovaním kalibračného experimentu modelom s chybami v premenných.

 Nech G je konečná grupa s faktorizáciou G=AB, kde A, B sú podgrupy s triviálnym prienikom. Nech b je generátor pogrupy B. Potom kosomorfizmus asociovaný ku b je bijekcia f z A do A definovaná rovnicou baB=f(a)B, kde a je z A. Každý automorfizmus f grupy A je kosomorfizmus polopriameho súčinu A. Na druhej strane existujú kosomorfizmy, ktoré nie sú automorfizmy grupy A. Práca obsahuje úplnú klasifikáciu kosomorfizmov, v prípade, keď A je cyklická p-grupa, kde p je nepárne prvočíslo.

 Práca sa zaoberá regulárnymi Grothendieckovými dezénmi jednoznačne definovanými svojou grupou automorfizmov. Problém sa redukuje na otázku klasifikácie maximálne automorfných p-grúp. To sú také, kde sa dosahuje Hallova horná hranica pre rád grupy automorfizmov. Článok obsahuje úplnú klasifikáciu takýchto grúp triedy najviac 3.

 Bola nájdená metóda na generovanie 0,1 matíc s predpísaným počtom jednotiek pre postkvantovú McElieceovu šifrovaciu metódu.

**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 2017

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2017** | | | | | | **Počet ukončených doktorantúr v r. 2017** | | | | | |
|  | **Doktorandi** | | | | | | **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | po skúške | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Denná zo zdrojov SAV** | 4 | 2 | 2 | 0 | 2 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 4 | 3 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| **Súhrn** | 7 | | 2 | | 2 | | 2 | | 0 | | 0 | |

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie*

**3.2. Zmena formy doktorandského štúdia**

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

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

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

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2017 úspešnou obhajobou

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Meno doktoranda** | **Forma DŠ** | **Mesiac, rok nástupu na DŠ** | **Mesiac, rok obhajoby** | **Číslo a názov študijného odboru** | **Meno a organizácia školiteľa** | **Fakulta udeľujúca vedeckú hodnosť** |
| Mgr. Peter Mlynárčik | interné štúdium hradené z prostriedkov SAV | 9 / 2013 | 8 / 2017 | 9.1.9 aplikovaná matematika | RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach | Fakulta matematiky, fyziky a informatiky UK |
| Mgr. Matúš Palmovský | interné štúdium hradené z prostriedkov SAV | 9 / 2013 | 8 / 2017 | 9.1.9 aplikovaná matematika | RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach | Fakulta matematiky, fyziky a informatiky UK |

*Zoznam interných a externých doktorandov je uvedený v prílohe A.*

**3.4. Medzinárodné doktorandské štúdium**

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

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

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

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

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

Tabuľka 3f Účasť na pedagogickom procese

|  |  |  |
| --- | --- | --- |
| **Menný prehľad pracovníkov,   ktorí boli menovaní   do spoločných odborových   komisií pre doktorandské   štúdium** | **Menný prehľad pracovníkov,   ktorí pôsobili ako členovia   vedeckých rád univerzít,   správnych rád univerzít a fakúlt** | **Menný prehľad pracovníkov,   ktorí získali vyššiu vedeckú,   pedagogickú hodnosť   alebo vyšší kvalifikačný stupeň** |
| doc. RNDr. Ján Borsík, CSc. (matematická analýza) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | doc. Mgr. Ján Karabáš, PhD. (doc., Fakulta prírodných vied UMB) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) | Mgr. Peter Mlynárčik, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK) |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | RNDr. Stanislav Jakubec, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králové, ČR) | Mgr. Matúš Palmovský, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK) |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK) | doc. Mgr. Martin Papčo, PhD. (doc., Pedagogická fakulta KU) |

|  |  |  |
| --- | --- | --- |
| prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty) | prof. RNDr. Roman Nedela, DrSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika) | prof. RNDr. Roman Nedela, DrSc. (Fakulta prírodných vied UMB) |  |
| doc. RNDr. Roman Frič, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Roman Nedela, DrSc. (Univerzita Mateja Bela v Banskej Bystrici) |  |
| doc. RNDr. Roman Frič, DrSc. (geometria a topológia) | doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |
| doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia) | prof. RNDr. Beloslav Riečan, DrSc. (Fakulta prírodných vied ŽU) |  |
| doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika) | prof. RNDr. Beloslav Riečan, DrSc. (Fakulta riadenia a informatiky ŽU) |  |
| doc. RNDr. Ferdinand Chovanec, CSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Gejza Wimmer, DrSc. (Fakulta prírodných vied UMB) |  |
| prof. RNDr. Július Korbaš, CSc. (geometria a topológia) |  |  |
| doc. RNDr. Karol Nemoga, CSc. (aplikovaná informatika) |  |  |
| doc. RNDr. Miroslav Repický, CSc. (informatika) |  |  |
| prof. RNDr. Beloslav Riečan, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |
| prof. RNDr. Beloslav Riečan, DrSc. (matematická analýza) |  |  |
| doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (informatika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (teória vyučovania informatiky) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (kvantitatívne metódy v ekonómii) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |

**3.6. Údaje o pedagogickej činnosti**   
Tabuľka 3g Prednášky a cvičenia vedené v roku 2017

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 8 | 2 | 2 | 2 |
| **Celkový počet hodín v r. 2017** | 524 | 178 | 221 | 82 |

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

Tabuľka 3h Aktivity pracovníkov na VŠ

|  |  |  |
| --- | --- | --- |
| **1.** | **Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti   diplomových a bakalárskych prác** | 6 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 12 |
|
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 4 |
|
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 8 |
|
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 10 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 7 |
|
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc.   prác** | 1 |
|
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD.   prác** | 6 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 4 |
|

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

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

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

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

**G. Wimmer:**

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

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

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

**4. Medzinárodná vedecká spolupráca**

**4.1. Medzinárodné vedecké podujatia**

**4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2017 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
EuroHCC 2017 (European Historical Ciphers Colloquium), Smolenice, 18.05.-19.05.2017

CryptArchi Workshop 2017 (modern logic devices in cryptography), Smolenice, 40 účastníkov, 18.06.-21.06.2017

Graph Embeddings and Maps on Surfaces (GEMS 2017), Podbanské, 30.07.-04.08.2017

Globálne existenciálne riziká 2017, Bratislava, 15.11.-15.11.2017

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2018 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
The 18th Central European Conference on Cryptology/The 18th Central European Conference on Cryptology, Smolenice, 06.06.-08.06.2018, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

10th International Workshop on Non-Classical Models of Automata and Applications (NCMA)/Desiaty medzinárodný workshop o neklasických modeloch automatov a aplikácií (NCMA), Košice, 22.08.-23.08.2018, (Galina Jirásková, 055/ 622 82 91, jiraskov@saske.sk)

32th International Summer Conference on Real Functions Theory/32th International Summer Conference on Real Functions Theory, Stará Lesná, 02.09.-07.09.2018, (Ján Borsík, 055/ 622 8291, borsik@saske.sk)

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

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Meno pracovníka** | **Programový** | **Organizačný** | **Programový i organizačný** |
| Frič Roman | 0 | 1 | 0 |
| Jirásková Galina | 2 | 0 | 0 |
| Nedela Roman | 0 | 0 | 1 |
| Nemoga Karol | 3 | 0 | 2 |
| Ploščica Miroslav | 0 | 1 | 0 |
| Vajteršic Marian | 3 | 0 | 1 |
| Wimmer Gejza | 1 | 0 | 0 |
| **Spolu** | 9 | 2 | 4 |

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

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

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)

doc. RNDr. Karol Nemoga, CSc.

IACR International Association for Cryptology (funkcia: člen)

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Bernoulli Society (funkcia: člen)

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

Matematische Hamburg Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

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

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Nemoga Karol | NATO Science for Peace and Security Projects | 36 |
| Vajteršic Marian | The Research Foundation-Flanders (FWO) | 1 |

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

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

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.* **5. Vedná politika**

Vedná politika Matematického ústavu SAV sa v r. 2017 sústreďovala na plnenie úloh vyplývajúcich z vedeckých grantov. Všetci vedeckí a odborní pracovníci sú riešiteľmi grantových úloh VEGA, spolu 14 grantov, kde je ústav hlavným riešiteľom a 3 granty, kde sa ústav zmluvne podieľa na riešení. Okrem toho sa v r. 2017 na ústave riešili 6 grantových úloh v rámci APVV, z toho v jednom projekte je ústav hlavným riešiteľom. Pracovníci okrem riešenia projektov na domácej úrovni sa sústreďujú aj na riešenie úloh so zahraničnými pracoviskami v 2 grantoch. Okrem toho, jedna pracovníčka, Mgr. A. Zemánková, PhD. má pauzu z dôvodu materskej dovolenky v Programe Štipendium SAV. Dr. Giselle Monteiro, Brazília, získala prestížny grant SASPRO, ktorý udeľuje SAV, na jeden rok so začiatkom riešenia 1.4 2016; ukončený bol 31.3.2017. Dr. T. Macko získal miesto na ústave v rámci Podpornej schémy na návrat odborníkov zo zahraničia od 22.8.2016 štipendium bolo ukončené koncom augusta 2017. Dr. B. Novotný získal grant v rámci projektu ERACOSYSMED so začiatkom riešenia v r. 2018 na 36 mesiacov.

V r. 2018 predpokladáme obhajobu doktorskej dizertačnej práce Dr. A. Jenčovej.

Výsledky výskumu sa snažíme uverejňovať v špičkových matematických časopisoch. Mnohí pracovníci spolupracujú so zahraničnými partnermi v rámci formálnych grantov ako aj na neformálnej, ale aktívnej spoluúčasti. Bohužiaľ, čas v matematických časopisoch od zaslania cez prijatie až po uverejnenie trvá nezriedka aj dva-tri roky, a okrem toho špičkové matematické časopisy v mnohých matematických odboroch nie sú CC-časopisy, hoci počet takýchto časopisov sa zvyšuje. Od nového roku 2017 bol pozastavený prístup do dôležitých elektronických databáz vydavateľstva Elsevier (Scopus, ScienceDirect, REAXYS) na viac ako tri týždne. Prístup do databáz, hlavne veľkých vydavateľstiev ako Springer, Elsevier, a ďalších je nevyhnutným predpokladom kvalitnej vedeckej práce a vedenie SAV a Ministerstvo školstva, vedy, výskumu a športu by sa malo tejto otázke prioritne venovať. Dúfame, že podobná situácia sa už nebude opakovať.

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

Matematický ústav SAV sa hodlá zapojiť do konzorcia spolu s Fyzikálnym ústavom SAV a ďalšími pre problematiku kvantových technológií.

Matematický ústav SAV sa hodlá zapojiť do riešenia Štátnych programov výskumu a vývoja pre roky 2017 – 2022 s výhľadom do roku 2026, ktoré sa rozbieha v roku 2018. Predpokladáme účasť v témach 2, 3 a 4.

V r. 2017 bol prijatý zákon o vedecko výskumných inštitúciách, na základe ktorého prejde Matematický ústav SAV od 1.7.2018 z rozpočtovej formy hospodárenia na formu hospodárenia v.v.i. To bude znamenať prípravu množstva nových dokumentov a orgánov zabezpečujúcich hladký prechod na v.v.i. a zdarný začiatok v novej forme hospodárenia.

Budúcnosť Matematického ústavu závisí aj od kvality a kvantity doktorandov. Žiaľ, v posledných rokoch zaznamenávame nízky záujem o doktorandské štúdium jednak v ústavoch akadémie ako aj na vysokých školách. Dôvodov vidíme viacero. V prvom rade to pripisujeme súčasnej legislatíve ohľadom štipendií, ktorá slabo finančne zabezpečuje doktorandov. Takisto, po skončení doktorandského štúdia, absolventi v ústavoch zarobia v čistom menej, ako keby boli doktorandmi. Predpokladáme, že mierne zvýšenie štipendií v r. 2018 situáciu nevyrieši. Ďalej, štúdium na ústavoch SAV je viac vedecky orientované a často náročnejšie než na vysokých školách, a pritom kvalita i počet matematicky erudovaných absolventov vysokých škôl klesá. Preto študenti, ktorí uvažujú o pokračovaní svojho vysokoškolského štúdia na treťom stupni na Slovensku, spravidla volia svoju alma mater.

Napriek tomu na MÚ SAV v r. 2017 nastúpili dvaja interní doktorandi. Bolo by preto žiaduce, aby sa mohli prijímať do interného doktorandského štúdia aj kvalitní záujemcovia mimo EÚ, napr. z krajín bývalého Sovietskeho zväzu, kde je vysoká úroveň matematiky na vysokých školách.

Tak isto navrhujeme, aby Štipendium Š. Schwarza sa mohlo udeliť viacerým bývalým doktorandom a bolo trochu lepšie financované ako doteraz, lebo už ani o to nie je veľký záujem.

V r. 2013 sme zaviedli platenú prax pre študentov matematiky vyšších ročníkov, keď na ústave pod vedením renomovaných odborníkov stážisti riešia zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

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

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

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

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

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

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

**Začiatok spolupráce:** 1990

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** organizácia vedeckého podujatia

**Začiatok spolupráce:** 2017

**Zameranie:** veda a výskum

**Zhodnotenie:** Organizácia workshopu: "Workshop on Efficient Algorithms, Automata and Data Structures" (EAADS 2017), November 14-16, 2017, Košice, Slovakia.

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

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

**Začiatok spolupráce:** 1999

**Zameranie:** pedagogika, veda a výskum

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

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

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

**Začiatok spolupráce:** 2001

**Zameranie:** pedagogika, veda a výskum

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

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

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

**Začiatok spolupráce:** 2016

**Zameranie:** veda a výskum

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

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

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

**Začiatok spolupráce:** 2000

**Zameranie:** pedagogika, veda a výskum

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

**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU

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

**Začiatok spolupráce:** 2006

**Zameranie:** veda a výskum

**Zhodnotenie:** spoločný vedecký projekt APVV, VEGA.

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

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

**Začiatok spolupráce:** 2011

**Zameranie:** numerická analýza, algoritmy

**Zhodnotenie:** pedagogická činnosť

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

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

**Začiatok spolupráce:** 2017

**Zameranie:** veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** dvojstranná dohoda o spolupráci

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

**Zhodnotenie:** príprava a prednesenie spoločného príspevku na medzinárodnej vedeckej konferencii, pomoc pri organizovaní medzinárodnej pedagogickej konferencie, recenzovanie publikácií, pomoc pri zvyšovaní kvalifikácie.

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

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

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

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

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

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

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

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

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

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

**Názov univerzity/vysokej školy a fakulty:** Akadémia ozbrojených síl, Slovensko

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

**Začiatok spolupráce:** 2002

**Zameranie:** veda a výskum

**Zhodnotenie:** spoločný vedecký projekt APVV, VEGA.

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

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

**Začiatok spolupráce:** 2015

**Zameranie:** pedagogický proces

**Zhodnotenie:** výuka

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

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

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

**Začiatok spolupráce:** 2013

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

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

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

**7.1. Spoločné pracoviská s aplikačnou sférou**

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

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

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

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2004

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

Objem získaných prostriedkov v bežnom roku (€): 0

Stručný opis výstupu/výsledku: V rámci spolupráce s firmou ttc, s.r.o. (bývalé CSE-Controls), Nitra, sa vo Veľkej Británii na plynovode Bacton – Great Yarmouth finalizovalo nasadenie systému pre detekciu a lokalizáciu únikov plynu.

Zhodnotenie: Pokračovalo sa v prácach na systéme pre detekciu a lokalizáciu únikov plynu z plynovodných potrubí. Úspešne sa ukončilo nasadenie takéhoto systému na plynovode vo Veľkej Británii.

**7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe**   
 **8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie**

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

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

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Názov orgánu** | **Funkcia** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. | Člen pracovnej skupiny pre matematiku Akreditačnej komisie vlády SR | člen |
| doc. RNDr. Karol Nemoga, CSc. | zbor expertov – ISEG, NATO | člen |

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

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

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

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

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

**9. Vedecko-organizačné a popularizačné aktivity**

**9.1.Vedecko-popularizačná činnosť**

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ** | **Počet** | **Typ** | **Počet** | **Typ** | **Počet** |
| prednášky/besedy | 14 | tlač | 10 | TV | 1 |
| rozhlas | 3 | internet | 3 | 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** |
| EuroHCC 2017 (European Historical Ciphers Colloquium) | medzinárodná | Smolenice | 18.05.-19.05.2017 | 30 |
| CryptArchi Workshop 2017 (modern logic devices in cryptography) | medzinárodná | Smolenice | 18.06.-21.06.2017 | 40 |
| Graph Embeddings and Maps on Surfaces (GEMS 2017) | medzinárodná | Podbanské | 30.07.-04.08.2017 | - |
| Globálne existenciálne riziká 2017 | medzinárodná | Bratislava | 15.11.-15.11.2017 | - |

**9.3. Účasť na výstavách**

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

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

**9.5. Členstvo v redakčných radách časopisov**

doc. RNDr. Ján Borsík, CSc.

Mathematica Slovaca (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: editor)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

Indian Journal of Mathematics (funkcia: člen)

Mathematica Slovaca (funkcia: výkonný editor)

Military and Science (funkcia: člen redakčnej rady)

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

Soft Computing (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Michal Fečkan, DrSc.

Communications in Mathematical Analysis (funkcia: editor)

Differential Equations & Applications (funkcia: editor)

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

Dynamics of Partial Differential Equations (funkcia: editor)

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

Journal of Applied Mathematics (funkcia: editor)

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

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

Mathematica Slovaca (funkcia: editor)

Mathematical Notes, Miskolc University (funkcia: editor)

doc. RNDr. Roman Frič, DrSc.

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

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ján Haluška, CSc.

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

Tatra Mountains Mathematica Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)

Mathematica Slovaca (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Juraj Hromkovič, DrSc.

Computing and Informatics (funkcia: člen)

Grammars (funkcia: člen)

Pokroky matematiky, fysiky a astronomie (funkcia: člen)

RAIRO­ Theoretical Information and Applications (funkcia: člen)

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

RNDr. Martin Kochol, PhD., DSc.

International Journal of Combinatorics (funkcia: editor)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

prof. RNDr. Roman Nedela, DrSc.

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

Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

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

Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)

Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

doc. Mgr. Martin Papčo, PhD.

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

doc. RNDr. Miroslav Ploščica, CSc.

Algebra Universalis (funkcia: redaktor)

Mathematica Bohemica (funkcia: redaktor)

Mathematica Slovaca (funkcia: redaktor)

doc. RNDr. Sylvia Pulmannová, DrSc.

Algebra Universalis (funkcia: člen)

International Journal of Theoretical Physics (funkcia: člen)

Mathematica Slovaca (funkcia: vedúci redaktor)

Tatra Mountains Mathematical Publications (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Czechoslovak Mathematical Journal (funkcia: člen)

Mathematica Slovaca (funkcia: člen)

Obzory matematiky, fyziky, informatiky (funkcia: člen)

Pokroky matematiky, fyziky a astronómie (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: hlavný redaktor)

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

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Marian Vajteršic, DrSc.

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

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

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

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

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

RNDr. Imrich Vrťo, DrSc.

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

prof. RNDr. Gejza Wimmer, DrSc.

Applications of Mathematics (funkcia: člen)

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)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Humboldtov klub (funkcia: člen)

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

Učená spoločnosť SAV (funkcia: člen)

prof. RNDr. Michal Fečkan, DrSc.

Učená spoločnosť 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. Emília Halušková, 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)

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)

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

JSMF, pobočka Banská Bystrica (funkcia: predseda)

Učená spoločnosť SAV (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

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

Humboldtov kluv v SR (funkcia: člen)

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

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

RNDr. Imrich Vrťo, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská genealogická a heraldická spoločnosť (funkcia: člen)

Slovenská informatická spoločnosť (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

P-SAPV (funkcia: člen výboru)

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

**10. Činnosť knižnično-informačného pracoviska**

**10.1. Knižničný fond**

Tabuľka 10a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | | 26 682 |
| z toho | knihy a zviazané periodiká | 26 682 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | - |
| Rukopisy, vzácne tlače | - |
| Počet titulov dochádzajúcich periodík | | 83 |
| z toho zahraničné periodiká | | 75 |
| Ročný prírastok knižničných jednotiek | | 47 |
| v tom | kúpou | 44 |
| darom | 3 |
| výmenou | - |
| 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)** | | 87 |
| v tom z r. 1 | prezenčné výpožičky | 59 |
| absenčné výpožičky | 28 |
| v tom z r. 1 | odborná literatúra pre dospelých | 36 |
| výpožičky periodík | 51 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | 16 |

**10.3. Používatelia**

Tabuľka 10c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 51 |

**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 € | 3295,72 |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2017 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)

prof. RNDr. Michal Fečkan, DrSc.

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

doc. RNDr. Roman Frič, DrSc.

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

doc. RNDr. Ľubica Holá, DrSc.

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

**11.4. Členstvo v komisiách SAV**

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

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

- Komisia SAV pre ekonomické otázky (člen)

- Komisia SAV pre 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, PhD.

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

prof. RNDr. Július Korbaš, CSc.

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

doc. Ing. Gabriel Okša, CSc.

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

**12.1. Výdavky RO SAV**

Tabuľka 12a Výdavky RO SAV (v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **V ý d a v k y** | **Skutočnosť k 31.12.2017 spolu** | **v tom:** | | | |
| **zo ŠR** | **z toho:** | **z mimorozp. zdrojov** | **z toho:** |
| **ŠF EÚ vr. spolufinan.zo ŠR** | **ŠF EÚ vr. spolufinan.zo ŠR** |
| **Výdavky spolu** | 1 046 873,58 | 983 649,16 | - | 63 224,42 | - |
| **Bežné výdavky** | 1 041 573,58 | 978 349,16 | - | 63 224,42 | - |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 596 297,12 | 578 454 | - | 17 843,12 | - |
| poistné a príspevok do poisťovní (620) | 210 074,19 | 203 641,43 | - | 6 432,75 | - |
| tovary a služby (630) | 187 699,54 | 148 751 | - | 38 948,54 | - |
| z toho: časopisy | 25 668  (11 174\*) | 25 668  (11 174\*) | - | - | - |
| VEGA projekty | 71 566 | 71 566 | - | - | - |
| MVTS projekty | 4 850 | 4 850 | - | - | - |
| CE | - | - | - | - | - |
| vedecká výchova | 2 880 | 2 880 | - | - | - |
| bežné transfery (640) | 47 503 | 47 503 | - | - | - |
| z toho: štipendiá | 45 280 | 45 280 | - | - | - |
| transfery partnerom projektov | - | - | - | - | - |
| **Kapitálové výdavky** | 5 300 | 5 300 | - | - | - |
| **v tom:** |  |  |  |  |  |
| obstarávanie kapitálových aktív | 5 300 | 5 300 | - | - | - |
| kapitálové transfery | - | - | - | - | - |
| z toho: transfery partnerom projektov | - | - | - | - | - |

\* 25 668,- EUR sú prostriedky na časopisy, z nich bolo 14 494,- EUR prevedené rozpočtovým opatrením na VEDU, vydavateľstvo SAV, zostatok v rozpočte MÚ SAV je 11 174,- EUR.

**12.2. Príjmy RO SAV**

Tabuľka 12b Príjmy RO SAV (v €)

|  |  |  |  |
| --- | --- | --- | --- |
| **P r í j m y** | **Skutočnosť k 31.12.2017 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 72 089,42 | 8 865 | 63 224,42 |
| **Nedaňové príjmy** | 72 089,42 | 8 865 | 63 224,42 |
| **v tom:** |  |  |  |
| príjmy z prenájmu | - | - | - |
| príjmy z predaja výrobkov a služieb | 4 684 | 4 684 | - |
| iné | 4 181 | 4 181 | - |
| **Granty a transfery (mimo zdroja 111)** | 63 224,42 | - | 63 224,42 |
| **v tom:** |  |  |  |
| **tuzemské** | 63 224,42 | - | 63 224,42 |
| **z toho: APVV** | 51 472,36 | - | 51 472,36 |
| **iné** | 11 752,06 | - | 11 752,06 |
| zahraničné |  |  |  |
| z toho: projekty rámcového programu EÚ | - | - | - |
| iné | - | - | - |

**13. Nadácie a fondy pri organizácii SAV**   
   
 **14. Iné významné činnosti organizácie SAV**

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

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 38 členov, z toho 17 zahraničných) a recenzovaný (karentovaný AMS) časopis, indexovaný v databáze SCI a SCOPUS. V roku 2008 prevzalo distribúciu časopisu vydavateľstvo Springer-Verlag v spolupráci so spoločnosťou Versita, teraz De Gruyter. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

V r. 2007 začal byť časopis Mathematica Slovaca indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Počet zaslaných príspevkov sa v roku 2009 viac ako dva aj pol znásobil vzhľadom k r. 2007, a činil 284 príspevkov oproti 211 v r. 2008, v r. 2010 bolo 334 príspevkov a v r. 2011 to bolo 509 príspevkov, v r. 2013 vyše 500 príspevkov, v r. 2014 vyše 540 príspevkov, v r. 2015 a 2016 vyše 500 príspevkov. Preto sme aj v r. 2012 museli výrazne zvýšiť počet editorov. Vyše 75 % prác je zamietnutých. V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2016)=0,346, päťročný impakt faktor 0,412 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,485 (Scimago Journal Ranking) a je v 2. kvartile. Počet zaslaných článkov v r. 2017 bol okolo 550.

Aj keď distribúcia časopisu prostredníctvom vydavateľstva Springer-Verlag spôsobila redukciu výmeny časopisu (vydavateľstvo Springer-Verlag bol výhradný distribútor v období 2008-2015), dosiahli sme významne väčšie rozšírenie časopisu medzi čitateľov. Rovnako, pre našich pracovníkov je najvýznamnejší prístup ku informáciám v elektronickej forme. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1993. Adresa je http://maslo.mat.savba.sk. Adresa časopisu na stránkach spoločnosti Springer je

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

alebo

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

Adresa časopisu na stránkach spoločnosti Versita bola

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

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

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

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

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

Ďalší časopis vydávaný ústavom Tatra Mountains Mathematical Publications vznikol v r. 1992 a vydávame ho v spolupráci s niektorými vysokými školami. Publikujú sa v ňom pôvodné vedecké práce zo všetkých oblastí matematického výskumu, hlavne však súbory prác venované jednému okruhu problémov a zborníky prác z medzinárodných konferencií. Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. Doteraz vyšlo 67 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 0,309 a je v 3. kvartile.

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

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2017 vyšiel 12. 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 Open.

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 2017**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**Dvurečenskij Anatolij**

Ocenenie Predsedníctva SAV za vedeckú publikáciu s mimoriadne veľkým počtom citácií

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Ocenenie za publikáciu: A. Dvurečenskij, S. Pulmannová: New Trends in Quantum Structures, Kluwer Academic, Dordrechte, Ister Science, Bratislave, 2000.*

**Fečkan Michal**

Ocenenie špičkových publikácií SAV

*Oceňovateľ: SAV*

*Opis: M. Fečkan, and M. Pospíšil. Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems. Amsterdam : Elsevier, 2016. 244 s. ISBN 978-0-12-804294-6.*

**Pulmannová Sylvia**

Ocenenie Predsedníctva SAV za vedeckú publikáciu s mimoriadne veľkým počtom citácií

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Ocenenie za publikáciu: A. Dvurečenskij, S. Pulmannová: New Trends in Quantum Structures, Kluwer Academic, Dordrechte, Ister Science, Bratislave, 2000.*

**Vajteršic Marian**

Čestná plaketa Jura Hronca za zásluhy v matematických vedách

*Oceňovateľ: Predsedníctvo SAV, Bratislava*

**15.1.2. Iné domáce ocenenia**

**Fečkan Michal**

Ocenenie rektora UK

*Oceňovateľ: rektor UK*

*Opis: Ocenenie rektora UK pri príležitosti 17. novembra*

**Fečkan Michal**

Prémia Literárneho fond

*Oceňovateľ: Literárny fond*

*Opis: Prémia za vedeckú a odbornú literatúru za rok 2012 v kategórii prírodných a technických vied*

**15.2. Medzinárodné ocenenia** **16. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)**

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

**o slobodnom prístupe k informáciám**

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

 zákona č. 43/1970 Zb.,

 zákona č. 92/1977 Zb.,

 zákona č. 7/1990 Zb.,

 zákona č. 291/1992 Zb.,

 zákona č. 11/1993 Z.z.,

 zákona č. 75/1995 Z.z.

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

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

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

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

**Organizačná štruktúra MÚ SAV:**

 Matematický ústav SAV, Štefánikova 49, 814 73 Bratislava

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

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

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

**Orgány MÚ SAV:**

 Vedecká rada MÚ SAV

 rada riaditeľa MÚ SAV.

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

**Financovanie MÚ SAV:**

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

Ďalšími zdrojmi financovania pracoviska sú

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

 príjmy z vlastnej činnosti

 prostriedky z medzinárodných programov výskumu a vývoja

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

**MÚ SAV je povinné zverejňovať aj**

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

 dátum prevodu alebo prechodu vlastníctva a právny titul

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

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

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

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

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

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

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

(3) Informácia môže byť sprístupnená

a. ústne,

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

c. odkopírovaním informácií na technický nosič dát,

d. sprístupnením kópií predlôh s požadovanými informáciami,

e. telefonicky, f. faxom,

g. poštou,

h. e-mailom,

i. odkazom na už zverejnenú informáciu.

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

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

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

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

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

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

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

(7) Žiadosť o sprístupnenie informácie možno podať :

 ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava

 telefonicky na telefónnom čísle : 02 / 5751 0414

 faxom na faxové spojenie : 02 / 5249 7316

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

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

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

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

(3) Evidencia obsahuje predovšetkým :

 dátum podania žiadosti,

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

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

 opravný prostriedok (dátum podania a výsledok vybavenia).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Sadzobník úhrad za sprístupnenie informácií**

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

|  |  |
| --- | --- |
| 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 2017 došlo ku rastu celkových výdavkov Matematického ústavu SAV oproti roku 2016 o 3,19%. Nárast bol hlavne v rozpočtových výdavkoch, o 3,57 %., pri miernom poklese mimorozpočtových o 2,47 %. Pokles mimorozpočtových príjmov bol zavinený hlavne zastavením príjmov od plynárenských spoločností, ale kompenzovaný nárastom zdrojov z APVV, ktoré vzrástli o 102,9 %. V oblasti miezd sme zaznamenali rast o 3,6%, ktorý bol daný valorizáciou, dobrým hodnotením ústavu pri prerozdeľovaní 5 percent v rámci 1. oddelenia vied, získaním jednej štipendistky SASPRO a jedného pracovníka v rámci programu Návraty.

V tovaroch a službách došlo po predchádzajúcom poklese o 18 % ku nárastu o 1,1 % a to napriek poklesu prostriedkov vo VEGA o 9,07 %.

Rovnako ako v predošlom roku je treba spomenúť stabilizačnú dohodu SAV, ktorá zabezpečovala rozpočet SAV na roky 2015-2017 vo výške 60 mil. €. Pozitíva dohody sa prejavili hlavne v roku 2015. V roku 2016 už predstavovala určitú brzdu rozvoja. V roku 2017 sa podarilo navýšiť rozpočet SAV vďaka realizovanej medzinárodnej akreditácii hlavne v oblasti súťažných zdrojov.

Pozitívne hodnotíme pokračovanie projektov APVV. V roku 2017 sme mali vyšší počet projektov – 6 projektov oproti trom v roku 2016. Dôležité je:

 Zabezpečiť stabilné a zvyšujúce sa financovanie projektov APVV.

 Zlepšiť hodnotenie projektov.

Hodnotenie projektov nie je primerané v tom zmysle, že úspešný projekt musí mať hodnotenie blízke 100 %. Dobrý projekt musí posudzovať “informovaný“ recenzent, inak projekt, ktorý bude hodnotiť ako veľmi dobrý a hodný financovania môže hodnotiť aj 70 %, čím ho vyradí. Tento systém je zrejme daný veľmi lokálnym posudzovaním, ale nie je v poriadku.

Prístup ku vedeckým informáciám vďaka projektu NISPEZ CVTI (Centrum vedecko-technických informácií) a činnosti Ústrednej knižnice SAV, ktorý už skončil a nový projekt zatiaľ nebol realizovaný, bežal v roku 2017 s určitými obmedzeniami. – od začiatku roku 2017 bol viac ako na tri týždne pozastavený prístup do databáz vydavateľstva Elsevier (Scopus, Sciencedirect, REAXYS). Zabezpečenie prístupu v ďalšom období a špeciálne po roku 2020 je jedna z prioritných úloh pre SAV, VŠ a Ministerstvo školstva, vedy, výskumu a športu SR, keďže po r. 2020 prestanú byť tieto prístupy financované z prostriedkov EÚ. Matematický ústav SAV zabezpečil prístup do databázy Zentralblatt MATH, Nemecko. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2017 neobnovili aj vďaka vzrastu ceny na 8000 EUR ročne.

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

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

V roku 2017 prebiehala aj príprava prechodu organizácií SAV na novú formu v. v. i. Príprava typových dokumentov pre jednotlivé pracoviská aj za celú SAV je niekedy robená v chvate a na poslednú chvíľu. Rovnako riešenie problémov majetku.

Za dôležité považujeme aj súbežnú prípravu novely zákona o SAV, ktorý je nateraz v tieni príprav na prechod na v. v. i. Nebolo by dobré, aby sa nakoniec dotváral v chvate a na poslednú chvíľu.

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

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

doc. RNDr. Karol Nemoga, CSc., 02/ 5751 0401

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

**Prílohy**   
   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2017**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Úväzok  (v %)** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [prof. RNDr. Anatolij Dvurečenskij, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2372) | 100 | 1.00 |
| 2. | [doc. RNDr. Roman Frič, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5683) | 100 | 1.00 |
| 3. | [doc. RNDr. Ľubica Holá, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2378) | 100 | 1.00 |
| 4. | [prof. RNDr. Juraj Hromkovič, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5689) | 100 | 0.00 |
| 5. | [RNDr. Stanislav Jakubec, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2379) | 50 | 0.75 |
| 6. | [prof. RNDr. Roman Nedela, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5699) | 45 | 0.45 |
| 7. | [doc. RNDr. Sylvia Pulmannová, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2386) | 100 | 1.00 |
| 8. | [prof. RNDr. Beloslav Riečan, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6722) | 3 | 0.12 |
| 9. | [doc. RNDr. Oto Strauch, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2389) | 100 | 1.00 |
| 10. | [prof. RNDr. Marian Vajteršic, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5725) | 100 | 0.00 |
| 11. | [RNDr. Imrich Vrťo, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5729) | 50 | 0.50 |
| 12. | [prof. RNDr. Gejza Wimmer, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6723) | 40 | 0.40 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | [RNDr. Martin Kochol, PhD., DSc.](http://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.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5673) | 100 | 1.00 |
| 2. | [doc. RNDr. Ján Borsík, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5675) | 100 | 1.00 |
| 3. | [RNDr. Stefan Dobrev, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5681) | 100 | 1.00 |
| 4. | [prof. RNDr. Michal Fečkan, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2373) | 25 | 0.25 |
| 5. | [doc. RNDr. Ján Haluška, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5687) | 100 | 1.00 |
| 6. | [Mgr. Anna Jenčová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380) | 100 | 1.00 |
| 7. | [RNDr. Galina Jirásková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5691) | 100 | 1.00 |
| 8. | [prof. RNDr. Július Korbaš, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3819) | 3 | 0.03 |
| 9. | [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369) | 100 | 1.00 |
| 10. | [doc. Ing. Gabriel Okša, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5701) | 100 | 1.00 |
| 11. | [doc. RNDr. Milan Paštéka, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6691) | 3 | 0.03 |
| 12. | [doc. RNDr. Miroslav Ploščica, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5702) | 25 | 0.25 |
| 13. | [doc. RNDr. Miroslav Repický, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5707) | 100 | 1.00 |
| 14. | [Mgr. Andrea Zemánková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5731) | 100 | 0.00 |
| **Vedeckí pracovníci** | | | |
| 1. | [doc. RNDr. Vladimír Baláž, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6707) | 1 | 0.01 |
| 2. | [RNDr. Katarína Čunderlíková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11192) | 3 | 0.02 |
| 3. | [RNDr. Vladimír Dančík, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6710) | 100 | 0.00 |
| 4. | [Mgr. Nataliya Dilna, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7075) | 100 | 0.00 |
| 5. | [RNDr. Peter Eliaš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5682) | 100 | 1.00 |
| 6. | [Mgr. Štefan Gyürki, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10596) | 5 | 0.05 |
| 7. | [doc. RNDr. Rudolf Hajossy, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6702) | 32 | 0.32 |
| 8. | [RNDr. Emília Halušková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5688) | 100 | 1.00 |
| 9. | [Mgr. Marek Hyčko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) | 100 | 1.00 |
| 10. | [doc. RNDr. Ferdinand Chovanec, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6700) | 3 | 0.03 |
| 11. | [doc. RNDr. Mária Jurečková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6699) | 3 | 0.03 |
| 12. | [doc. Mgr. Ján Karabáš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5693) | 11 | 0.11 |
| 13. | [Mgr. Sándor Kelemen, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7219) | 40 | 0.40 |
| 14. | [Mgr. Marek Košta, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11195) | 100 | 0.08 |
| 15. | [Mgr. Tibor Macko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5697) | 100 | 1.00 |
| 16. | [RNDr. Alžbeta Michalíková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11193) | 3 | 0.02 |
| 17. | [Mgr. Peter Mlynárčik, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9397) | 3 | 0.01 |
| 18. | [Ing. Igor Mračka, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7987) | 100 | 1.00 |
| 19. | [Mgr. Branislav Novotný, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5700) | 100 | 1.00 |
| 20. | [Mgr. Matúš Palmovský, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9398) | 3 | 0.01 |
| 21. | [doc. Mgr. Martin Papčo, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8050) | 5 | 0.05 |
| 22. | [Mgr. Eva Plávalová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11194) | 3 | 0.01 |
| 23. | [RNDr. Jozef Pócs, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5704) | 100 | 1.00 |
| 24. | [RNDr. Michal Pospíšil, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6622) | 20 | 0.20 |
| 25. | [Mgr. Ladislav Stacho, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5714) | 100 | 0.00 |
| 26. | [Ondrej Šuch, PhD., M.Sc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5716) | 25 | 0.25 |
| 27. | [Mgr. Elena Vinceková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5727) | 100 | 1.00 |
| 28. | [RNDr. Tibor Žáčik, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2368) | 100 | 1.00 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [RNDr. Kvetoslava Dvořáková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=1039) | 100 | 0.00 |
| 2. | [RNDr. Laura Husárová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5809) | 40 | 0.40 |
| 3. | [RNDr. Alexandra Mojžišová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11198) | 100 | 0.83 |
| 4. | [Mgr. Katarína Pastorková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10167) | 100 | 1.00 |
| 5. | [Ing.arch. Terézia Sedláková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6653) | 59 | 0.59 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Jana Galbová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10283) | 60 | 0.60 |
| 2. | [Silvia Gavorová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5684) | 80 | 0.80 |
| 3. | [Ivana Geriaková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2423) | 100 | 1.00 |
| 4. | [Pavel Grebeči](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6703) | 100 | 1.00 |
| 5. | [Ivana Hudecová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7230) | 60 | 0.60 |
| 6. | [Judita Klimentová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6697) | 60 | 0.60 |
| 7. | [Mária Malaščuková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2388) | 72 | 0.72 |
| 8. | [Katarína Nagyová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6694) | 60 | 0.60 |
| 9. | [Eugénia Ondrušková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2374) | 100 | 1.00 |
| 10. | [Bc. Henrieta Paľová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6720) | 24 | 0.24 |
| 11. | [Ing. Daniel Solčiansky](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11197) | 60 | 0.48 |
| 12. | [Andrea Surová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6688) | 100 | 1.00 |
| 13. | [Katarína Štefančíková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5719) | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Janka Badiarová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6709) | 33 | 0.33 |
| 2. | [Lucia Mišíková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6716) | 36 | 0.36 |
| 3. | [Blažena Puterová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7255) | 45 | 0.45 |
| 4. | [Beata Szabová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=11196) | 100 | 0.25 |

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

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|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedeckí pracovníci** | | | |
| 1. | [Dr. Giselle Monteiro](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10597) | 31.3.2017 | 0.25 |
| 2. | [Ing. Ľubomír Török, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5722) | 31.3.2017 | 0.05 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Marián Bugala](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7633) | 31.3.2017 | 0.15 |
| 2. | [Martin Mišovič](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10598) | 31.1.2017 | 0.08 |
| **Ostatní pracovníci** | | | |
| 1. | [Alena Lisá](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10168) | 30.9.2017 | 0.75 |

**Zoznam doktorandov**

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|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Tomáš Adamják | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Mgr. Jean Rosemond Dora | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Ing. Michal Hospodár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Mgr. Ivana Krajňáková | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 5. | Mgr. Martin Plávala | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 6. | Mgr. Dušana Štiberová | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| *organizácia nemá interných doktorandov hradených z iných zdrojov* | | | |
| **Externí doktorandi** | | | |
| 1. | Mgr. Andrea Tinajová | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |

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

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|  | **Meno s titulmi** | **Dátum obhajoby** | **Dátum prijatia** | **Úväzok  (v %)** |
| 1. | Mgr. Peter Mlynárčik, PhD. | 23.8.2017 | 1.9.2017 | 3 |
| 2. | Mgr. Matúš Palmovský, PhD. | 23.8.2017 | 1.9.2017 | 3 |

**Zoznam emeritných vedeckých zamestnancov**

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|  | **Meno s titulmi** |

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

**Medzinárodné projekty**

**Projekty národných agentúr**

**Programy: VEGA**

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

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| **Zodpovedný riešiteľ:** | Ján Borsík |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0050/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1711 € |

*Dosiahnuté výsledky:*   
Boli charakterizované body silnej kvázispojitosti.   
Boli vyšetrované body rovnomernej konvergencie.   
Zaslaný článok J. Borsík: Points of uniform convergence and quasicontinuity do European Journal of Mathematics   
   
**2.) Výpočty s neúplnou informáciou - algoritmy, modely, siete** *(Computations with Incomplete Information - Algorithms, Models, Networks)*

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| **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: 5348 € |

*Dosiahnuté výsledky:*   
1. Pri probléme prebudenia distribuovanej siete (reprezentovanej grafom) neprázdna podmnožina vrcholov spontánne začne výpočet; cieľom je zobudiť (doručenou správou) každý vrchol siete. Ukázali sme, že problém prebudenia je na hyperkockách, úplných bipartitných grafoch a klikách rovnako náročný, ako (zdanlivo omnoho náročnejší) problém voľby šéfa.   
   
2. Študovali sme poradnú zložitosť online verzie problému množinového pokrytia. Ukázali sme lineárny dolný aj horný odhad pre poradnú zložitosť na dosiahnutie optimálneho riešenia. Ak nám stačí c-kompetitívne riešenie, O((n log c)/c) bitov rady je postačujúcich; táto hranica je tesná až na faktor O(log c).

3. Ukázali sme tesné dolné a horné odhady pre pre problém hľadania indiferentného agenta (ani nepomáha hľadaniu, ani sa aktívne nájdeniu nevyhýba) pohybujúceho sa ustálenou rýchlosťou v cykle. Analyzovali sme všetky kombinácie toho, čo je známe o smere a rýchlosti hľadaného agenta.   
   
4. Študovali sme problém slabého hraničného pokrytia obdĺžnikovej hranice: n mobilných senzorov je spočiatku umiestnených v obdĺžnikovej oblasti. Cieľom je presunúť tieto senzory tak, aby žiaden votrelec nebol schopný prejsť danou oblasťou, ak sa pohybuje len po priamke rovnobežnej s hranicami oblasti. Ukázali sme viaceré odhady a NP-úplnosti pre rôzne miery ceny presunu (MinNum/MinSum/MinMax)   
   
5. Navrhli a zanalyzovali sme jednoduchý lokálny algoritmus na správu sieťových bufferov pre nepriateľský model vkladania správ pre stromové siete s jedným cieľovým vrcholom. Dosiahli sme prvý lokálny algoritmus ktorý dosahuje veľkosť bufferov O(log n) (najlepšie predchádzajúce používali buffre veľkosti O(n^0.5) a ukázali sme asymptotickú tesnosť tohto výsledku.   
   
6. Ukázali sme viacero výsledkov pre poradnú zložitosť k-server problému: dolný odhad počtu bitov rady potrebných na dosiahnutie optimality, horné odhady pre všeobecný a Euklidovský prípad. Vo všeobecnom prípade sme zlepšili predchádzajúce výsledky o exponenciálny faktor; pre Euklidovský prípad sme ukázali konštantnú aproximáciu použitím rad konštantnej veľkosti.   
   
   
   
**3.) Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov** *(Qualitative properties and bifurcations of differential equations and dynamical systems)*

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| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0153/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 7060 € |

*Dosiahnuté výsledky:*   
- Zaoberali sme sa optimálnymi všeobecnými podmienkami postačujúcimi pre jednoznačnú riešiteľnosť okrajovej úlohy pre nelineárne funkcionalno - diferenciálne systémy druhého rádu - Dilna.   
   
- Študovali sme integrovateľnosť nekonečného systému spriahnutých oscilátorov typu Toda - Fečkan.   
   
- Prezentujeme úplnú funkcionálnu formulu, vyjadrujúcu i-te Z\_2-Bettiho číslo orientovanej Grassmannovej variety orientovaných 3-rozmerných vektorových podpriestorov v euklidovskom n-rozmernom priestore, pre i z rangu, určeného charakteristickým rangom kanonickej orientovanej vektorovej fibrácie nad touto varietou - Korbaš.   
   
- Podmienka ekvivalencie Kalmanovho typu je dokázaná a všetky riadiace funkcie sú nájdené pre problém relatívnej riaditeľnosti lineárneho systému neutrálnych diferenciálnych rovníc s oneskorením - Pospíšil.   
   
   
1. BABAJANOV, Bazar - FEČKAN, Michal - URAZBOEV, Gayrat. On the periodic Toda lattice hierarchy with an integral source. In Communications in nonlinear science and numerical simulation, 2017, vol. 52, p. 110-123.   
   
2. BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting IK singularities and impasse points in fully nonlinear RLC circuits. In Discrete and Continuous Dynamical Systems - Series B, 2017, vol. 22, no. 8, p. 3043-3061.   
   
3. DANCA, Marius-F. - FEČKAN, Michal - CHEN, Guanrong. Impulsive stabilization of chaos in fractional-order systems. In Nonlinear Dynamics, 2017, vol. 89, no. 3, p. 1889-1903.   
   
4. DILNA, Nataliya. On the unique solvability of a nonlinear nonlocal boundary-value problem for systems of second-order functional differential equations. In Journal of Mathematical Sciences, 2017, vol. 223, no. 3, p. 257-272.   
   
5. FEČKAN, Michal - WANG, JinRong - POSPÍŠIL, Michal. Fractional-order equations and inclusions. Berlin : Walter de Gruyter, 2017. 366 p. Fractional Calculus in Applied Sciences and Engineering, vol. 3.   
   
6. FEČKAN, Michal - POSPÍŠIL, Michal - SUSANTO, H. Bifurcation of travelling waves in implicit nonlinear lattices: applications in metamaterials. In Applicable Analysis, 2017, vol. 96, no. 4, p. 578-589.   
   
7. FEČKAN, Michal - WANG, JinRong. Mixed order fractional differential equations. In Mathematics, 2017, vol. 5, no. 4, p. [9].   
   
8. HAJOSSY, Rudolf. Kto vymyslel Pytagorovu vetu? In Obzory matematiky, fyziky a informatiky, 2017, vol. 46, no. 1, p. 15-26.   
   
9. HAJOSSY, Rudolf. Plimpton 322: a universal cuneiform table for Old Babylonian mathematicians, builders, surveyors and teachers. In Tatra Mountains Mathematical Publications, 2016, vol. 67, p. 1-40.   
   
10. KORBAŠ, Július. An explicit formula for the cup-length of the rotation group. In Bulletin of the Belgian Mathematical Society, 2017, vol. 24, no. 3, p. 335-338.   
   
11. KORBAŠ, Július. On the Betti numbers of oriented Grassmannians and independent semi-invariants of binary forms. In Mathematica Slovaca, 2017, vol. 67, no. 5, p. 1263-1268.   
   
12. POSPÍŠIL, Michal. Relative controllability of neutral differential equations with a delay. In SIAM Journal on Control and Optimization, 2017, vol. 55, no. 2, p. 835-855.   
   
13. WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Center stable manifold for planar fractional damped equations. In Applied Mathematics and Computation, 2017, vol. 296, p. 257-269.   
   
14. WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order differential switched systems with coupled nonlocal initial and impulsive conditions. In Bulletin des sciences mathématiques, 2017, vol. 141, no. 7, p. 727-746.

15. WANG, JinRong - LUO, Zijian - FEČKAN, Michal. Relative controllability of semilinear delay differential systems with linear parts defined by permutable matrices. In European Journal of Control, 2017, vol. 38, p. 39-46.   
   
16. WANG, JinRong - FEČKAN, Michal - TIAN, Ying. Stability analysis for a general class of non-instantaneous impulsive differential equations. In Mediterranean Journal of Mathematics, 2017, vol. 14, no. 2, art. no. 46.   
   
17. WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Approximate controllability of Sobolev type fractional evolution systems with nonlocal conditions. In Evolution Equations and Control Theory, 2017, vol. 6, no. 3, p. 471-486.   
   
18. ZHAO, Hou Yu - FEČKAN, Michal. Pseudo almost periodic solutions of an iterative equation with variable coefficients. In Miskolc Mathematical Notes, 2017, vol. 18, no. 1, p. 515-524.   
   
   
**4.) Parciálne operácie, kvantové štruktúry a kategoriálne metódy v pravdepodobnosti** *(Partial operations, quantum structures, and categorical methods in probability)*

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| **Zodpovedný riešiteľ:** | Roman Frič |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0031/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3583 € |

*Dosiahnuté výsledky:*   
Pomocou teórie kategórií bol opísaný prechod od klasickej kolmogorovovskej pravdepodobnosti ku jej minimálnemu fuzzy rozšíreniu.   
Frič, R. and Papčo, M.: Probability: From classical to fuzzy.   
Fuzzy Sets and Systems 326 (2017), 106–114. (ISSN 0165-0114) ADCA   
   
Frič, R. and Papčo, M.: On probability domains IV.   
International Journal of Theoretical Physics 56 (2017), 4084–4091. (ISSN: 0020-7748) ADCA   
   
Eliaš, P. and Frič, R.: Factorization of observables.   
International Journal of Theoretical Physics 56 (2017), 4073–4083 (ISSN: 0020-7748) ADCA

**5.) Niektoré otázky funkcionálnej, harmonickej a stochastickej analýzy** *(Some questions concerning functional, harmonic and stochastic analysis )*

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| **Zodpovedný riešiteľ:** | Ján Haluška |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0178/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1925 € |

*Dosiahnuté výsledky:*   
   
   
**6.) Topológie na funkcionálnych priestoroch a hyperpriestoroch** *(Topologies on Functional Spaces and Hyperspaces)*

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| **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: 4279 € |

*Dosiahnuté výsledky:*   
1. Ľ. Holá, B. Novotný, Topology of uniform convergence and m-topology on C(X), Mediterr. J. Math. 14 (2017), 1-7   
   
2. Ľ. Holá, G. Kwiecinska, Pointwise topological convergence and topological graph convergence of set-valued maps, Filomat 31 (2017), 2779-2785   
   
3. Ľ. Holá, V. Jindal, On graph and fine topologies, Topology Proceedings 49 (2017), 65-73   
   
4. Ľ. Holá, D. Holý, Graph quasicontinuous functions and densely continuous forms, International Journal of Analysis and Applications 14 (2017), 155-161   
   
   
   
**7.) Algebraická a pravdepodobnostná teória čísela ich aplikácie** *(Algebraic and probabilistic number theory and their applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stanislav Jakubec |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | VEGA 2/0146/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA SAV: 6447 € |

*Dosiahnuté výsledky:*   
   
   
**8.) Algebrické, pravdepodobnostné a kategoriálne aspekty modelovania kvantových štruktúr** *(Algebraic. Probabilistic and Categorial Aspects of Modelling Quantum Structures)*

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| **Zodpovedný riešiteľ:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0069/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 12864 € |

*Dosiahnuté výsledky:*   
   
   
**9.) Popisná zložitosť formálnych systémov** *(Descriptional Complexity of Formal Systems)*

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| **Zodpovedný riešiteľ:** | Galina Jirásková |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0084/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 8557 € |

*Dosiahnuté výsledky:*   
   
   
**10.) Výskum mikroštruktúry, elektrických a optických vlastností nanotexturovaných polovodičových rozhraní** *(Research of Microstructures, Electrical and Optical Properties of Nanotextured Semiconductor Interfaces)*

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

*Dosiahnuté výsledky:*   
**11.) Tokové a chromatické problémy v kombinatorike** *(Flow and chromatic problems in combinatoris)*

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| **Zodpovedný riešiteľ:** | Martin Kochol |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | VEGA 2/0017/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1711 € |

*Dosiahnuté výsledky:*   
KOCHOL, M.: Edge cut splitting formulas for Tutte-Grothendieck invariants, Journal of Combinatorial Theory, Series B, 125 (2017), 114-131, ISSN: 0095-8956.   
   
**12.) 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 SAV: 1935 € |

*Dosiahnuté výsledky:*   
-Boli dotiahnuté detaily v súčinových formulách pre algebraickú chirurgiu nad diskovými komplexmi.   
   
-Študovala sa akcia grupy homotopických ekvivalencií na štruktúrnej množine variety, bolo ukázané, že jednoducho-súvislom prípade množina orbít je nekonečná práve vtedy keď sama štruktúrna množina je nekonečná.   
   
-Pri pojmoch chirurgie na zobrazení, Poincarého duality, Spivakovej normálovej fibrácie, a normálových zobrazení, sme dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov a v prípade variet, ktoré nemusia byť jednoducho súvislé, v rámci pripravovanej monografie o základoch teórie chirurgií.   
   
   
Článok:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, https://arxiv.org/abs/1611.04114. Akceptované v Homotopy, Homology and Applications.

Preprinty:   
   
2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, https://arXiv.org/abs/1708.02089.  
   
3. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress.   
   
**13.) Paralelné blokové algoritmy pre kanonické dekompozície tenzorov** *(Parallel Block Algorithms for Canonical Decomposition of Matrices)*

|  |  |
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| **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: 5819 € |

*Dosiahnuté výsledky:*   
   
   
**14.) Vybrané problémy univerzálnej algebry a teórie zväzov** *(Selected Problems in Universal Algebra and Lattice Theory)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Miroslav Ploščica |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0044/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3851 € |

*Dosiahnuté výsledky:*   
1. Zaviedli sme pojem kongruenčne FD-maximálnej algebry. Popísali sme viaceré typy takých algebier a študovali sme ich úlohu v kongruenčne FD-maximálnych varietách.   
   
2. Študovali sme zovšeobecnenia pojmu komonotónnosti zväzovo ohodnotených vektorov. Na základe týchto nových zovšeobecnení bolo popísaných niekoľko axiomatických charakterizácií L-hodnotového Sugenovho integrálu. Umožňuje to výrazne znížiť výpočtovú zložitosť týkajúcu sa rozhodnutia, či daná agregačná funkcia je Sugenovým integrálom.   
   
3. Študovali sme vlastnosť EKP pre monounárne algebry. Popísali sme niekoľko tried nekonečných algebier s touto vlastnosťou. Pozorovali sme podalgebry algebry s EKP, ktoré túto vlastnosť dedia.

**15.) Teoreticko-množinové metódy v topológii a teórii reálnych funkcií** *(Set-Theoretic Methods in Topology and Real Functions Theory)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Miroslav Repický |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 1/0097/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | PF UPJŠ Košice |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA SAV: 3869 € |

*Dosiahnuté výsledky:*   
   
   
**16.) Diskrétne a spojité pravdepodobnostné modely a ich aplikácie** *(Discrete and continuous probabilistic models and their applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Gejza Wimmer |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0047/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1323 € |

*Dosiahnuté výsledky:*   
   
   
**17.) Agregácia vstupov z viacerých kompetitívnych a/alebo kooperatívnych kategórií** *(Aggregation of inputs from multiple competitive and/or cooperative categories)*

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| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | VEGA 2/0049/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 1284 € |

*Dosiahnuté výsledky:*

**Programy: APVV**

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

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| **Zodpovedný riešiteľ:** | Anatolij Dvurečenskij |
| **Trvanie projektu:** | 1.7.2017 / 30.6.2021 |
| **Evidenčné číslo projektu:** | APVV-16-0073 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 8163 € |

*Dosiahnuté výsledky:*   
   
   
**19.) Efektívne algoritmy, automaty a dátové štruktúry** *(Effective algorithms, automata and data structures)*

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

*Dosiahnuté výsledky:*   
   
   
**20.) Topológia a geometria variet** *(Topology and Geometry of Manifolds)*

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| **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: 540 € |

*Dosiahnuté výsledky:*   
-Boli dotiahnuté detaily v súčinových formulách pre algebraickú chirurgiu nad diskovými komplexmi.

-Študovala sa akcia grupy homotopických ekvivalencií na štruktúrnej množine variety, bolo ukázané, že jednoducho-súvislom prípade množina orbít je nekonečná práve vtedy keď sama štruktúrna množina je nekonečná. V prípade, že je fundamentálna grupa netriviálna, sme ukázali protipríkladom, že analogické tvrdenie neplatí.   
   
-Pri pojmoch chirurgie na zobrazení, Poincarého duality, Spivakovej normálovej fibrácie, a normálových zobrazení, sme dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov a v prípade variet, ktoré nemusia byť jednoducho súvislé, v rámci pripravovanej monografie o základoch teórie chirurgií.   
   
   
Článok:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, https://arxiv.org/abs/1611.04114. Akceptované v Homotopy, Homology and Applications.   
   
Preprinty:   
   
2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, https://arXiv.org/abs/1708.02089.   
   
3. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress.   
   
**21.) Algebrické, topologické a kombinatorické metódy v štúdiu diskrétnych štruktúr** *(Algebraic, topological and combinatorial methods in the study of discrete structures)*

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| **Zodpovedný riešiteľ:** | Roman Nedela |
| **Trvanie projektu:** | 1.7.2016 / 30.6.2020 |
| **Evidenčné číslo projektu:** | APVV-15-0220 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fakulta matematiky, fyziky a informatiky, Univerzita Komenského, Bratislava |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | APVV: 14000 € |

*Dosiahnuté výsledky:*   
I.Kovács, R. Nedela, Skew-morphisms of cyclic p-groups, J. Group Theory 20 (2017), 1135-1154.   
   
Na-Er Wang, R. Nedela, Kan Hu, Regular dessins uniquely determined by a nilpotent automorphism group, J. Group Theory, DOI 10.1515/jgth-2017-0044.   
   
**22.) Automatizované spravovávanie trasologických objektov** *(Automatic processing of traceology objects)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ondrej Šuch |
| **Trvanie projektu:** | 1.10.2013 / 30.9.2017 |
| **Evidenčné číslo projektu:** | APVV-0219-12 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fakulta prírodných vied UMB Banská Bystrica |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | APVV: 6483 € |

*Dosiahnuté výsledky:*   
   
   
**23.) 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:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 7500 € |

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

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

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| **Zodpovedný riešiteľ:** | Tibor Žáčik |
| **Trvanie projektu:** | 1.1.1999 / |
| **Evidenčné číslo projektu:** | 1235 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
   
   
**Programy: Iné projekty**

**25.) Program Štipendium SAV** *(Program Fellowship of SAS)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.8.2013 / 31.7.2017 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*   
   
   
**Programy: SASPRO**

**26.) Kurzweilov a Dobrakovov prístup k integrácii** *(Kurzweil's and Dobrakov's approaches to integration)*

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| **Zodpovedný riešiteľ:** | Giselle Monteiro |
| **Trvanie projektu:** | 1.4.2016 / 31.3.2017 |
| **Evidenčné číslo projektu:** | 1636/03/01 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | SASPRO SAV: 11752 € |

*Dosiahnuté výsledky:*   
   
   
**Programy: Návrat domov**

**27.) Topológia vysoko-rozmerných variet** *(Topology of high-dimensional manifolds)*

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| **Zodpovedný riešiteľ:** | Tibor Macko |
| **Trvanie projektu:** | 22.8.2016 / 31.8.2017 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | Ministerstvo školstva, vedy, výskumu a športu SR: 27000 € |

*Dosiahnuté výsledky:*

-Boli dotiahnuté detaily v súčinových formulách pre algebraickú chirurgiu nad diskovými komplexmi.   
   
-Študovala sa akcia grupy homotopických ekvivalencií na štruktúrnej množine variety, bolo ukázané, že jednoducho-súvislom prípade množina orbít je nekonečná práve vtedy keď sama štruktúrna množina je nekonečná.   
   
-Pri pojmoch chirurgie na zobrazení, Poincarého duality, Spivakovej normálovej fibrácie, a normálových zobrazení, sme dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov a v prípade variet, ktoré nemusia byť jednoducho súvislé, v rámci pripravovanej monografie o základoch teórie chirurgií.   
Článok:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, https://arxiv.org/abs/1611.04114. Akceptované v Homotopy, Homology and Applications.   
   
Preprinty:   
   
2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, https://arXiv.org/abs/1708.02089.   
   
3. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress.   
   
 ***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| AAA01 | BARTKOVÁ, Renáta - RIEČAN, Beloslav - TIRPÁKOVÁ, Anna. Probability theory for fuzzy quantum spaces with statistical applications. Sharjah, UAE : Bentham Science Publishers, 2017. 190 p. ISBN 978-1-68108-539-5. |
| AAA02 | FEČKAN, Michal - WANG, JinRong - POSPÍŠIL, Michal. Fractional-order equations and inclusions. Berlin : Walter de Gruyter, 2017. 366 p. Fractional Calculus in Applied Sciences and Engineering, vol. 3. ISBN 978-3-11-052138-2. |
| AAA03 | PAŠTÉKA, Milan. Density and Related Topics. Praha : Academia ; Bratislava : Veda, 2017. 238 p. ISBN 978-80-200-2725-2. |

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

|  |  |
| --- | --- |
| ABC01 | GFRERER, Christine - VAJTERŠIC, Marián - KUTIL, Rade. Parallel algorithms to align multiple strings in the context of web data extraction. In Emergent Computation. - Springer International Publishing Switzerland, 2017, p. 525-578. ISBN 978-3-319-46375-9. ISSN 2194-7287. |

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

|  |  |
| --- | --- |
| ADCA01 | BABAJANOV, Bazar - FEČKAN, Michal - URAZBOEV, Gayrat. On the periodic Toda lattice hierarchy with an integral source. In Communications in nonlinear science and numerical simulation, 2017, vol. 52, p. 110-123. (2.784 - IF2016). (2017 - Current Contents). ISSN 1007-5704. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S1007570417301302>. |
| ADCA02 | BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting IK singularities and impasse points in fully nonlinear RLC circuits. In Discrete and Continuous Dynamical Systems - Series B, 2017, vol. 22, no. 8, p. 3043-3061. (0.994 - IF2016). (2017 - Current Contents). ISSN 1531-3492. Dostupné na internete: <https://aimsciences.org/journals/pdfs.jsp?paperID=14223&mode=full>. |
| ADCA03 | DANCA, Marius-F. - FEČKAN, Michal - CHEN, Guanrong. Impulsive stabilization of chaos in fractional-order systems. In Nonlinear Dynamics, 2017, vol. 89, no. 3, p. 1889-1903. (3.464 - IF2016). (2017 - Current Contents). ISSN 0924-090X. |
| ADCA04 | DOBREV, Stefan - EDMONDS, Jeff - KOMM, Dennis - KRÁLOVIČ, Rastislav - KRÁLOVIČ, Richard - KRUG, Sacha - MÖMKE, Tobias. Improved analysis of the online set cover problem with advice. In Theoretical Computer Science, 2017, vol. 689, p. 96-107. (0.698 - IF2016). (2017 - Current Contents). ISSN 0304-3975. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0304397517304735>. |
| ADCA05 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Orthocomplete pseudo MV-algebras. In International Journal of General Systems, 2016, vol. 45, no. 7-8, p. 889-909. (1.677 - IF2015). (2016 - Current Contents). ISSN 0308-1079. |

|  |  |
| --- | --- |
| ADCA06 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. When the lexicographic product of two po-groups has the Riesz decomposition property. In Algebra Universalis, 2017, vol. 78, no. 1, p. 67-91. (0.625 - IF2016). (2017 - Current Contents). ISSN 0002-5240. |
| ADCA07 | DVUREČENSKIJ, Anatolij. Lexicographic pseudo effect algebras. In Soft Computing, 2017, vol. 21, no. 17, p. 4981-4994. (2.472 - IF2016). (2017 - Current Contents). ISSN 1432-7643. |
| ADCA08 | DVUREČENSKIJ, Anatolij - HYČKO, Marek. Hyper effect algebras. In Fuzzy Sets and Systems, 2017, vol. 326, p. 34-51. (2.718 - IF2016). (2017 - Current Contents). ISSN 0165-0114. |
| ADCA09 | DVUREČENSKIJ, Anatolij. On orders of observables on effect algebras. In International Journal of Theoretical Physics, 2017, vol. 56, no. 12, p. 4112-4125. (0.964 - IF2016). (2017 - Current Contents). ISSN 0020-7748. |
| ADCA10 | ELIAŠ, Peter - FRIČ, Roman. Factorization of observables. In International Journal of Theoretical Physics, 2017, vol. 56, no. 12, p. 4073-4083. (0.964 - IF2016). (2017 - Current Contents). ISSN 0020-7748. |
| ADCA11 | FEČKAN, Michal - POSPÍŠIL, Michal - SUSANTO, H. Bifurcation of travelling waves in implicit nonlinear lattices: applications in metamaterials. In Applicable Analysis, 2017, vol. 96, no. 4, p. 578-589. (0.923 - IF2016). (2017 - Current Contents). ISSN 0003-6811. |
| ADCA12 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. States and synaptic algebras. In Reports on Mathematical Physics, 2017, vol. 79, no. 1, p. 13-32. (0.604 - IF2016). (2017 - Current Contents). ISSN 0034-4877. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0034487717300186>. |
| ADCA13 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Every synaptic algebra has the monotone square root property. In Positivity, 2017, vol. 21, no. 3, p. 919-930. (0.661 - IF2016). (2017 - Current Contents). ISSN 1385-1292. |
| ADCA14 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. A Loomis-Sikorski theorem and functional calculus for a generalized Hermitian algebra. In Reports on Mathematical Physics, 2017, vol. 80, no. 2, p. 255-275. (0.604 - IF2016). (2017 - Current Contents). ISSN 0034-4877. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0034487717300794>. |
| ADCA15 | FRIČ, Roman - PAPČO, Martin. Probability: From classical to fuzzy. In Fuzzy Sets and Systems, 2017, vol. 326, p. 106-114. (2.718 - IF2016). (2017 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011417302658>. |
| ADCA16 | FRIČ, Roman - PAPČO, Martin. On probability domains IV. In International Journal of Theoretical Physics, 2017, vol. 56, no. 12, p. 4084-4091. (0.964 - IF2016). (2017 - Current Contents). ISSN 0020-7748. |
| ADCA17 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Generators of aggregation functions and fuzzy connectives. In IEEE Transactions on Fuzzy Systems, 2016, vol. 24, no. 6, p. 1690-1694. (6.701 - IF2015). (2016 - Current Contents). ISSN 1063-6706. |
| ADCA18 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Generalized comonotonicity and new axiomatizations of Sugeno integrals on bounded distributive lattices. In International Journal of Approximate Reasoning, 2017, vol. 81, p. 183-192. (2.845 - IF2016). (2017 - Current Contents). ISSN 0888-613X. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0888613X16302481>. |
| ADCA19 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Description of sup- and inf-preserving aggregation functions via families of clusters in data tables. In Information Sciences, 2017, vol. 400-401, p. 173-183. (4.832 - IF2016). (2017 - Current Contents). ISSN 0020-0255. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0020025517305510>. |
| ADCA20 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. Topology of uniform convergence and m-topology on C (X). In Mediterranean Journal of Mathematics, 2017, vol. 14, no. 2, art. no. 70. (0.868 - IF2016). (2017 - Current Contents). ISSN 1660-5446. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2Fs00009-017-0861-6.pdf>. |
| ADCA21 | JENČOVÁ, Anna - PLÁVALA, Martin. Conditions for optimal input states for discrimination of quantum channels. In Journal of Mathematical Physics, 2016, vol. 57, no. 12, 122203, [p. 1-20]. (1.234 - IF2015). (2016 - Current Contents). ISSN 0022-2488. |
| ADCA22 | JENČOVÁ, Anna - PLÁVALA, Martin. Conditions on the existence of maximally incompatible two-outcome measurements in general probabilistic theory. In Physical Review A, 2017, vol. 96, no. 2, art. no. 022113, [p. 1-7]. (2.925 - IF2016). (2017 - Current Contents). ISSN 1050-2947. |
| ADCA23 | JENČOVÁ, Anna. Preservation of a quantum Rényi relative entropy implies existence of a recovery map. In Journal of Physics A: Mathematical and Theoretical, 2017, vol. 50, no. 8, art. no. 085303. (1.865 - IF2016). (2017 - Current Contents). ISSN 1751-8113. |
| ADCA24 | JIRÁSKOVÁ, Galina - OKHOTIN, Alexander. On the state complexity of operations on two-way finite automata. In Information and Computation, 2017, vol. 253, p. 36-63. (1.050 - IF2016). (2017 - Current Contents). ISSN 0890-5401. Dostupné na internete: <https://www.sciencedirect.com/science/article/pii/S0890540116301316>. |
| ADCA25 | KOCHOL, Martin. Edge cut splitting formulas for Tutte-Grothendieck invariants. In Journal of Combinatorial Theory, Series B, 2017, vol. 125, p. 114-131. (0.829 - IF2016). (2017 - Current Contents). ISSN 0095-8956. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0095895617300199>. |
| ADCA26 | KORBAŠ, Július. An explicit formula for the cup-length of the rotation group. In Bulletin of the Belgian Mathematical Society, 2017, vol. 24, no. 3, p. 335-338. (0.375 - IF2016). (2017 - Current Contents). ISSN 1370-1444. |
| ADCA27 | KOVÁCS, István - NEDELA, Roman. Skew-morphisms of cyclic p-groups. In Journal of group theory, 2017, vol. 20, no. 6, p. 1135-1154. (0.457 - IF2016). (2017 - Current Contents). ISSN 1433-5883. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/jgth.2017.20.issue-6/jgth-2017-0015/jgth-2017-0015.pdf>. |
| ADCA28 | KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Performance analysis and optimization of the parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking. In Concurrency and computation - practice & experience, 2017, vol. 29, no. 9/10, p. e4059. (1.133 - IF2016). (2017 - Current Contents). ISSN 1532-0626. Dostupné na internete: <http://onlinelibrary.wiley.com/doi/10.1002/cpe.4059/pdf>. |
| ADCA29 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Kullback-Leibler divergence and mutual information of partitions in product MV algebras. In Entropy, 2017, vol. 19, no. 6, art. no. 267, p. 1-18. (1.821 - IF2016). (2017 - Current Contents). ISSN 1099-4300. Dostupné na internete: <http://www.mdpi.com/1099-4300/19/6/267>. |
| ADCA30 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy and logical mutual information of experiments in the intuitionistic fuzzy case. In Entropy, 2017, vol. 19, no. 8, art. no. 429, p. 1-19. (1.821 - IF2016). (2017 - Current Contents). ISSN 1099-4300. Dostupné na internete: <http://www.mdpi.com/1099-4300/19/8/429>. |
| ADCA31 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Continuous completions of triangular norms known on a subregion of the unit interval. In Fuzzy Sets and Systems, 2017, vol. 308, p. 27-41. (2.718 - IF2016). (2017 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011416302019?via%3Dihub>. |
| ADCA32 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Ordinal sums of representable uninorms. In Fuzzy Sets and Systems, 2017, vol. 308, p. 42-53. (2.718 - IF2016). (2017 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011416302354?via%3Dihub>. |
| ADCA33 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Uninorms continuous on [0, e[U-2]e, 1] (2). In Information Sciences, 2017, vol. 393, p. 130-143. (4.832 - IF2016). (2017 - Current Contents). ISSN 0020-0255. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0020025517304188?via%3Dihub>. |
| ADCA34 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of uninorms with continuous underlying t-norm and t-conorm by means of the ordinal sum construction. In International Journal of Approximate Reasoning, 2017, vol. 83, p. 176-192. (2.845 - IF2016). (2017 - Current Contents). ISSN 0888-613X. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0888613X17300579>. |
| ADCA35 | OKŠA, Gabriel - YAMAMOTO, Yusaku - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the serial block-Jacobi EVD algorithm for Hermitian matrices. In Numerische Mathematik, 2017, vol. 136, no. 4, p. 1071-1095. (2.152 - IF2016). (2017 - Current Contents). ISSN 0029-599X. |
| ADCA36 | PLÁVALA, Martin. Conditions for the compatibility of channels in general probabilistic theory and their connection to steering and Bell nonlocality. In Physical Review A, 2017, vol. 96, no. 5, art. no. 052127, [p. 1-17]. (2.925 - IF2016). (2017 - Current Contents). ISSN 1050-2947. |
| ADCA37 | POSPÍŠIL, Michal. Relative controllability of neutral differential equations with a delay. In SIAM Journal on Control and Optimization, 2017, vol. 55, no. 2, p. 835-855. (1.450 - IF2016). (2017 - Current Contents). ISSN 0363-0129. |
| ADCA38 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Approximate controllability of Sobolev type fractional evolution systems with nonlocal conditions. In Evolution Equations and Control Theory, 2017, vol. 6, no. 3, p. 471-486. (0.826 - IF2016). (2017 - Current Contents). ISSN 2163-2480. Dostupné na internete: <http://aimsciences.org/journals/pdfs.jsp?paperID=14338&mode=full>. |
| ADCA39 | WANG, JinRong - LUO, Zijian - FEČKAN, Michal. Relative controllability of semilinear delay differential systems with linear parts defined by permutable matrices. In European Journal of Control, 2017, vol. 38, p. 39-46. (1.944 - IF2016). (2017 - Current Contents). ISSN 0947-3580. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0947358017301279>. |
| ADCA40 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Center stable manifold for planar fractional damped equations. In Applied Mathematics and Computation, 2017, vol. 296, p. 257-269. (1.738 - IF2016). (2017 - Current Contents). ISSN 0096-3003. |
| ADCA41 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order differential switched systems with coupled nonlocal initial and impulsive conditions. In Bulletin des sciences mathématiques, 2017, vol. 141, no. 7, p. 727-746. (0.750 - IF2016). (2017 - Current Contents). ISSN 0007-4497. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0007449717300702>. |
| ADCA42 | WANG, JinRong - FEČKAN, Michal - TIAN, Ying. Stability analysis for a general class of non-instantaneous impulsive differential equations. In Mediterranean Journal of Mathematics, 2017, vol. 14, no. 2, art. no. 46. (0.868 - IF2016). (2017 - Current Contents). ISSN 1660-5446. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2Fs00009-017-0867-0.pdf>. |

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

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| ADEB01 | BUREVA, Veselina - MICHALÍKOVÁ, Alžbeta - SOTIROVA, Evdokia - POPOV, Stanislav - RIEČAN, Beloslav - ROEVA, Olympia. Application of the InterCriteria analysis to the universities rankings system in the Slovak Republic. In Notes on Intuitionistic Fuzzy Sets, 2017, vol. 23, no. 2, p. 128-140. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/mediawiki/images/8/84/NIFS-23-2-128-140.pdf>. |
| ADEB02 | ČUNDERLÍKOVÁ, Katarína. Intuitionistic fuzzy partition. In Notes on Intuitionistic Fuzzy Sets, 2017, vol. 23, no. 3, p. 44-53. ISSN 1310-4926. |
| ADEB03 | DOBREV, Stefan - KRÁLOVIČ, Rastislav - SANTORO, Nicola. On the cost of walking up. In International Journal of Networking and Computing, 2017, vol. 7, no. 2, p. 336-348. ISSN 2185-2839. Dostupné na internete: <http://www.ijnc.org/index.php/ijnc/article/view/157/160>. |
| ADEB04 | JIRÁSKOVÁ, Galina - SZABARI, Alexander - ŠEBEJ, Juraj. The complexity of languages resulting from the concatenation operation. In Journal of Automata, Languages and Combinatorics, 2017, vol. 22, no. 1-3, p. 123-143. ISSN 1430-189X. |
| ADEB05 | MICHALÍKOVÁ, Alžbeta - RIEČAN, Beloslav. On the Lebesgue IF-measure. In Notes on Intuitionistic Fuzzy Sets, 2017, vol. 23, no. 2, p. 8-12. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/mediawiki/images/5/57/NIFS-23-2-008-012.pdf>. |
| ADEB06 | RIEČAN, Beloslav - MARKECHOVÁ, Dagmar. φ–entropy of IF-partitions. In Notes on Intuitionistic Fuzzy Sets, 2017, vol. 23, no. 3, . p. 9-16. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/mediawiki/images/f/fd/NIFS-23-3-09-16.pdf>. |

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

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| ADFB01 | HAJOSSY, Rudolf. Kto vymyslel Pytagorovu vetu? In Obzory matematiky, fyziky a informatiky, 2017, vol. 46, no. 1, p. 15-26. ISSN 1335-4981. |
| ADFB02 | JUREČKA, S. - JUREČKOVÁ, Mária. Statistical and fractal analysis of random height function. In Komunikácie : vedecké listy Žilinskej univerzity, 2017, roč. 19, č. 3, s. 57-61. ISSN 1335-4205. Dostupné na internete: <http://www3.uniza.sk/komunikacie/archiv/2017/3/3\_2017en.pdf>. |

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

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| ADMA01 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Some results on L-complete lattices. In Iranian Journal of Fuzzy Systems, 2016, vol. 13, no. 6, p. 135-152. (0.381 - IF2015). ISSN 1735-0654. |
| ADMA02 | HOLÁ, Ľubica - KWIECIŃSKA, Grazyna. Pointwise topological convergence and topological graph convergence of set-valued maps. In Filomat, 2017, vol. 31, no. 9, p. 2779-2785. (0.695 - IF2016). ISSN 0354-5180. Dostupné na internete: <http://www.pmf.ni.ac.rs/pmf/publikacije/filomat/2017/31-9/31-9-20-3502.pdf>. |
| ADMA03 | ZHAO, Hou Yu - FEČKAN, Michal. Pseudo almost periodic solutions of an iterative equation with variable coefficients. In Miskolc Mathematical Notes, 2017, vol. 18, no. 1, p. 515-524. (0.388 - IF2016). ISSN 1787-2405. |

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

|  |  |
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| ADMB01 | BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Two-step reduction of GOSCL based on subsets quality measure and stability index. In Multimedia and Network Information Systems : Proceedings of the 10th International Conference MISSI 2016. - Springer International Publishing, 2017, p. 419-429. ISBN 978-3-319-43981-5. ISSN 2194-5357. |
| ADMB02 | DILNA, Nataliya. On the unique solvability of a nonlinear nonlocal boundary-value problem for systems of second-order functional differential equations. In Journal of Mathematical Sciences, 2017, vol. 223, no. 3, p. 257-272. ISSN 1072-3374. |
| ADMB03 | DOBREV, Stefan - KRANAKIS, E. - KRIZANC, D. - LAFOND, Manuel - MAŇUCH, Ján - NARAYANAN, Lata - OPATRNY, Jaroslav - SHENDE, Sunil - STACHO, Ladislav. Weak coverage of a rectangular barrier. In Lecture Notes in Computer Science : Algorithms and Complexity, 2017, vol. 10236, p. 196-208. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-57586-5\_17.pdf>. |
| ADMB04 | DOBREV, Stefan - LAFOND, Manuel - NARAYANAN, Lata - OPATRNY, Jaroslav. Optimal local buffer management for information gathering with adversarial traffic. In SPAA 2017: Proceedings of the 29th ACM Symposium on Parallelism in Algorithms and Architectures. - 2017, p. 265-274. ISBN 978-1-4503-4593-4. |
| ADMB05 | FEČKAN, Michal - WANG, JinRong. Mixed order fractional differential equations. In Mathematics, 2017, vol. 5, no. 4, p. [9]. (2017 - WOS, SCOPUS). ISSN 2227-7390. Dostupné na internete: <http://www.mdpi.com/2227-7390/5/4/61>. |
| ADMB06 | HALUŠKOVÁ, Emília. On direct limit closed classes of algebras. In Bulletin of the Section of Logic, 2016, vol. 45, no. 3-4, p. 155-169. ISSN 0138-0680. Dostupné na internete: <http://repozytorium.uni.lodz.pl:8080/xmlui/bitstream/handle/11089/22183/0\_2\_%5b155%5d-169\_Haluskova.pdf?sequence=1&isAllowed=y>. |
| ADMB07 | HOLÁ, Ľubica - JINDAL, Varun. On graph and fine topologies. In Topology Proceedings, 2017, vol. 49, p. 65-73. (2017 - SCOPUS). ISSN 0146-4124. Dostupné na internete: <http://topology.auburn.edu/tp/reprints/v49/tp49005p1.pdf>. |
| ADMB08 | HOLÁ, Ľubica - HOLÝ, Dušan. Graph quasicontinuous functions and densely continuous forms. In International Journal of Analysis and Applications, 2017, vol.14, no. 2, p. 155-161. ISSN 2291-8639. |
| ADMB09 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. On the descriptive complexity of $\overline{\Sigma^\*\overline{L}}$. In Lecture Notes in Computer Science : Developments in Language Theory. - Heidelberg : Springer, 2017, vol. 10396, p. 222-234. ISSN 0302-9743. |
| ADMB10 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity of operations on free and convex languages. In Lecture Notes in Computer Science : Implementation and Application of Automata. - Heidelberg : Springer, 2017, vol. 10329, p. 138-150. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007/978-3-319-60134-2\_12.pdf>. |
| ADMB11 | KRAJŇÁKOVÁ, Ivana - JIRÁSKOVÁ, Galina. Square on deterministic, alternating, and Boolean finite automata. In Lecture Notes in Computer Science : Descriptional Complexity of Formal Systems, 2017, vol. 10316, p. 214-225. ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007/978-3-319-60252-3\_17.pdf>. |

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

|  |  |
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| ADNA01 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Vector lattices in synaptic algebras. In Mathematica Slovaca, 2017, vol. 67, no. 6, p. 1509-1524. (0.346 - IF2016). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2017.67.issue-6/ms-2017-0066/ms-2017-0066.pdf>. |
| ADNA02 | JAKUBEC, Stanislav. Connection between multiplication theorem for Bernoulli polynomials and first factor h\_{p}^{‾}. In Mathematica Slovaca, 2017, vol. 67, no. 2, p. 345-348. (0.346 - IF2016). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2017.67.issue-2/ms-2016-0270/ms-2016-0270.pdf>. |
| ADNA03 | KORBAŠ, Július. On the Betti numbers of oriented Grassmannians and independent semi-invariants of binary forms. In Mathematica Slovaca, 2017, vol. 67, no. 5, p. 1263-1268. (0.346 - IF2016). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2017.67.issue-5/ms-2017-0047/ms-2017-0047.pdf>. |
| ADNA04 | RIEČAN, Beloslav - SAMUELČIK, Karol. On non-additive probability measures. In Mathematica Slovaca, 2017, vol. 67, no. 6, p. 1571-1576. (0.346 - IF2016). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2017.67.issue-6/ms-2017-0071/ms-2017-0071.pdf>. |

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

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| ADNB01 | HAJOSSY, Rudolf. Plimpton 322: a universal cuneiform table for Old Babylonian mathematicians, builders, surveyors and teachers. In Tatra Mountains Mathematical Publications, 2016, vol. 67, p. 1-40. ISSN 1210-3195. Dostupné na internete: <https://www.sav.sk/journals/uploads/0301131701H390\_O.pdf>. |
| ADNB02 | HOLÁ, Ľubica - HOLÝ, Dušan. Quasicontinuous functions, densely continuous forms and compactness. In Tatra Mountains Mathematical Publications, 2017, vol. 68, p. 93-102. ISSN 1210-3195. Dostupné na internete: <https://www.sav.sk/journals/uploads/11071504470HH.pdf>. |
| ADNB03 | PALENČÁR, R. - WIMMER, Gejza - KLVÁČOVÁ, S. - WITKOVSKÝ, Viktor. Two approaches to obtain the calibration line. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2017, p. 43-46. (2017 - IEEE Xplore, SCOPUS). ISBN 978-80-972629-0-7. |
| ADNB04 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Demodulation and uncertainty evaluation of quadrature interferometer signals when the errors are autoregressive. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2017, p. 23-26. (2017 - IEEE Xplore, SCOPUS). ISBN 978-80-972629-0-7. |
| ADNB05 | 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. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2017, p. 35-38. (2017 - IEEE Xplore, SCOPUS). ISBN 978-80-972629-0-7. |

**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. |

**AFG Abstrakty príspevkov zo zahraničných konferencií**

|  |  |
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| AFG01 | HALUŠKOVÁ, Emília. On limit closed classes of algebras. In AAA94 + NSAC 2017. The 94th Workshop on General Algebra : abstracts. - Srbsko : University of Novi Sad, 2017, p. 30. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://sites.dmi.uns.ac.rs/aaa94nsac2017/wp-content/uploads/2017/06/knjiga-apstrakata-235-x-165.pdf>. |
| AFG02 | HALUŠKOVÁ, Emília. The endomorphism Kernel property for mononuary algebras. In Applications of Algebra XXI : Zakopane, 20th-26th March, 2017, p. 21. |
| AFG03 | KUTIL, Rade - FLATZ, Markus - VAJTERŠIC, Marián. Parallel Nonnegative Matrix Factorization based on Newton iteration with improved convergence behavior. In PPAM 2017. 12th International Conference on Parallel Processing & Applied Mathematics : book of abstracts. - Lublin : University of Czȩstochowa, 2017, p. 61. |
| AFG04 | KUTIL, Rade - FLATZ, Markus - VAJTERŠIC, Marián. Convergence and parallelization of Nonnegative Matrix Factorization with Newton iteration. In PARNUM 2017 : book of abstracts. - Erlangen, Germany, 2017, p. 11. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.researchgate.net/publication/318792575\_BOOK\_OF\_ABSTRACTS\_of\_PARNUM\_2017\_-\_11th\_International\_Workshop\_on\_Parallel\_Numerics#pff>. |
| AFG05 | MONTEIRO, Giselle Antunes. Convergence results for the abstract Kurzweil-Stieltjes integral: a survey. In Seminar on ordinary differential equations and integration theory : Special session in honor of the 90th birthday of Jaroslav Kurzweil [elektronický zdroj]. - Praha : Institute of Mathematics of Czech Academy of Sciences, 2016, [p. 7]. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <http://users.math.cas.cz/~tvrdy/JK90-prg.pdf>. |
| AFG06 | MONTEIRO, Giselle Antunes. A note on Kurzweil-Stieltjes integrability and some particular classes of functions. In Real Analysis Exchange : Report on the Summer Symposium in Real Analysis XXXX [elektronický zdroj]. - Sarajevo, Bosnia and Herzegovina : International University of Sarajevo, 2016, [1 p.]. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.stolaf.edu/analysis/Sarajevo2016/aSarajevoReport/Web2016/Abstracts/MonteiroAbstract.pdf>. |
| AFG07 | MONTEIRO, Giselle Antunes. Extremal solutions of measure differential equations and application to impulsive systems. In O. D. Equations Brno 2016 : Program and Abstracts [elektronický zdroj]. - Brno : Masaryk University, 2016, p. 24. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <http://conference.math.muni.cz/ode60/data/uploads/abstract\_book.pdf>. |
| AFG08 | OKŠA, Gabriel - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Convergence of the parallel Block-Jacobi EVD algorithm for Hermitian matrices. In PARNUM 2017 : book of abstracts. - Erlangen, Germany, 2017, p. 18. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.researchgate.net/publication/318792575\_BOOK\_OF\_ABSTRACTS\_of\_PARNUM\_2017\_-\_11th\_International\_Workshop\_on\_Parallel\_Numerics#pf16>. |
| AFG09 | WIMMER, Gejza - ĎURIŠ, S. - PALENČÁR, R. - WITKOVSKÝ, Viktor. EIV calibration model of thermocouples. In Advanced Mathematical and Computational Tools in Metrology and Testing XI (AMCTM 2017). Book of Abstracts. - Teddington, UK : National Physical Laboratory, 2017. |
| AFG10 | WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALENČÁR, R. - PALENČÁR, J. Modeling and evaluating the distribution of the output quantity in models with copula dependent input quantities. In Advanced Mathematical and Computational Tools in Metrology and Testing XI (AMCTM 2017). Book of Abstracts. - Teddington, UK : National Physical Laboratory, 2017. |

**BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)**

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| BEF01 | PLÁVALOVÁ, Eva. Veľké nádeje pre exoplanéty. In Astronomická ročenka 2018. Zostavil Eduard Pittich. - Hurbanovo : Slovenská ústredná hvezdáreň, 2017, s. 182-185. ISBN 978-80-85221-94-7. |

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

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| FAI01 | PARNUM 2017 : book of abstracts. Eds. D. Bartuschat, U. Rüde, M. Vajteršic. Erlangen, Germany, 2017. 31 p. |
| FAI02 | Mathematica Slovaca. Editor A. Dvurečenskij, editor in chief S. Pulmannová. Bratislava : Veda, 1951-. Databáza WOS od r. 2007, SCOPUS od 2008, impaktovaný časopis od r. 2009. Zmena názvu od roku 1975. Obmesačník. ISSN 0139-9918. |
| FAI03 | Norwegian-Slovakian Workshop in Crypto : proceedings. O. Grošek, T. Helleseth, A. Kholosha, K. Nemoga, I. Semaev, P. Zajac (eds.). Bratislava : Slovak University of Technology, 2016. 78 p. ISBN 978-80-227-4541-3. |
| FAI04 | Tatra Mountains Mathematical Publications. Editor in chief K. Nemoga, managing editors T. Žáčik, B. Novotný. Bratislava : Veda, 1992-. Databáza WOS 2007-2013, databáza SCOPUS 2011-2015. ISSN 1210-3195. |
| FAI05 | Uniform Distribution Theory. Managing editors O. Strauch, V. Baláž. Vienna : University of Natural Resources and Life Sciences ; Bratislava : Veda, 2006-. Do r. 2011 vydavateľ Matematický ústav SAV Bratislava. 2x ročne. ISSN 1336-913X. |
| FAI06 | 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. |

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

|  |  |
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*2. [1.1] RODRIGUEZ-GUERRERO, Liliam - SANTOS-SANCHEZ, Omar - MONDIE, Sabine. A constructive approach for an optimal control applied to a class of nonlinear time delay systems. In JOURNAL OF PROCESS CONTROL. ISSN 0959-1524, 2016, vol. 40, p. 35-49., WOS*

*3. [1.1] SANTOS-SANCHEZ, Norma-Francenia - SALAS-CORONADO, Raul - SANTOS-SANCHEZ, Omar-Jacobo - ROMERO, Hugo - GARRIDO-ARANDA, Erick. On the effects of the temperature control at the performance of a dehydration process: energy optimization and nutrients retention. In INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY. ISSN 0268-3768, 2016, vol. 86, no. 9-12, p. 3157-3171., WOS*

|  |  |
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| AEE02 | CLEMONS, P. A. - WILSON, J. A. - DANČÍK, Vladimír - MULLER, S. - CARRINSKI, H. A. - WAGNER, B. K. - KOEHLER, A. N. - SCHREIBER, S. L. Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. P. A. Clemons, J. A. Wilson, V. Dančík, S. Muller, H. A. Carrinski, B. K. Wagner, A. N. Koehler, S. L. Schreiber. In Proceedings of the National Academy of Sciences of the United States of America, PNAS, 108 (17). - 2011, s. 6817-6822. ISSN 0027-8424. |

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*1. [1.1] BOEHM, Markus - ZHANG, Liying - BODYCOMBE, Nicole - MACIEJEWSKI, Mateusz - WASSERMANN, Anne Mai. The Many Facets of Screening Library Design. In FRONTIERS IN MOLECULAR DESIGN AND CHEMIAL INFORMATION SCIENCE HERMAN SKOLNIK AWARD SYMPOSIUM 2015: JURGEN BAJORATH. ISSN 0097-6156, 2016, vol. 1222, p. 345-364., WOS*

*2. [1.1] GARCIA-CASTRO, Miguel - ZIMMERMANN, Stefan - SANKAR, Muthukumar G. - KUMAR, Kamal. Scaffold Diversity Synthesis and Its Application in Probe and Drug Discovery. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 27, p. 7586-7605., WOS*

*3. [1.1] JONES, D. Heulyn - BRESCIANI, Stefano - TELLAM, James P. - WOJNO, Justyna - COOPER, Anthony W. J. - KENNEDY, Alan R. - TOMKINSON, Nicholas C. O. Synthesis of dibenzylamino-1-methylcyclohexanol and dibenzylamino-1-trifluoromethylcyclohexanol isomers. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 1, p. 172-182., WOS*

*4. [1.1] LEESON, Paul D. Molecular inflation, attrition and the rule of five. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2016, vol. 101, p. 22-33., WOS*

*5. [1.1] MCLEOD, Michael C. - AUBE, Jeffrey. Efficient access to sp(3)-rich tricyclic amine scaffolds through Diels-Alder reactions of azide-containing silyloxydienes. In TETRAHEDRON. ISSN 0040-4020, 2016, vol. 72, no. 26, p. 3766-3774., WOS*

*6. [1.1] STOTANI, Silvia - LORENZ, Christoph - WINKLER, Matthias - MEDDA, Federico - PICAZO, Edwige - MARTINEZ, Raquel Ortega - KARAWAJCZYK, Anna - SANCHEZ-QUESADA, Jorge - GIORDANETTO, Fabrizio. Design and Synthesis of Fsp(3)-Rich, Bis-Spirocyclic-Based Compound Libraries for Biological Screening. In ACS COMBINATORIAL SCIENCE. ISSN 2156-8952, 2016, vol. 18, no. 6, p. 330-336., WOS*

*7. [1.1] WATSON, Allan J. B. - FROST, James R. Highlights from the 51st EUCHEM conference on stereochemistry, Burgenstock, Switzerland, May 2016. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2016, vol. 52, no. 59, p. 9173-9177., WOS*

*8. [1.2] CAMPBELL, Michael G. - MERCIER, Joel - GENICOT, Christophe - GOUVERNEUR, Véronique - HOOKER, Jacob M. - RITTER, Tobias. Bridging the gaps in 18 F PET tracer development. In Nature Chemistry. ISSN 17554330, 2016, vol. 9, no. 1, p. 1-3., SCOPUS*

*9. [1.2] PLETZ, Jakob - BREINBAUER, Rolf. Future Directions of Modern Organic Synthesis. In From Biosynthesis to Total Synthesis: Strategies and Tactics for Natural Products, 2016, p. 519-547., SCOPUS*

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

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*1. [1.1] BORZOOEI, R. A. - GORAGHANI, S. Saidi. Free MV-Modules. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2016, vol. 31, no. 1, p. 151-161., WOS*

*2. [1.1] CHEN, Wenjuan - DAVVAZ, Bijan. Some classes of quasi-pseudo-MV algebras. In LOGIC JOURNAL OF THE IGPL. ISSN 1367-0751, 2016, vol. 24, no. 5, p. 655-672., WOS*

*3. [1.1] FOROUZESH, F. RADICAL OF .-IDEALS IN PMV-ALGEBRAS. In BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY. ISSN 1735-8515, 2016, vol. 42, no. 2, p. 233-246., WOS*

*4. [1.1] FOROUZESH, Fereshteh. Some Results on MV-Modules. In NEW MATHEMATICS AND NATURAL COMPUTATION. ISSN 1793-0057, 2016, vol. 12, no. 3, p. 251-263., WOS*

*5. [2.1] CHEN, Wenjuan - DUDEK, Wieslaw A. QUANTUM COMPUTATIONAL ALGEBRA WITH A NON-COMMUTATIVE GENERALIZATION. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2016, vol. 66, no. 1, p. 19-34., WOS*

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| AEE04 | 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. |

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*1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On generalized versions of central limit theorems for IF-events. In INFORMATION SCIENCES. ISSN 0020-0255, 2016, vol. 355, p. 299-313., 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] KUPPUSAMY, Lakshmanan - RAMAN, Indhumathi - KRITHIVASAN, Kamala. On Succinct Description of Certain Context-Free Languages by Ins-Del and Matrix Ins-Del Systems. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2016, vol. 27, no. 7, p. 775-786., WOS*

|  |  |
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| AEF02 | RIEČAN, Beloslav. On the Yager type entropy of dynamical systems. In Acta mathematica 5. - Nitra : UKF, 2002, vol. 5, p. [1-14]. ISBN 80-8050-562-4. |

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*1. [1.1] RAHIMI, Mehdi - ASSARI, Amir - RAMEZANI, Fatemeh. A Local Approach to Yager Entropy of Dynamical Systems. In INTERNATIONAL JOURNAL OF FUZZY SYSTEMS. ISSN 1562-2479, 2016, vol. 18, no. 1, p. 98-102., WOS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. On Generation of One-Sided Concept Lattices from Restricted Context. In 2012 IEEE 10th Jubilee International Symposium on Intelligent Systems and Informatics: SISY 2012, Subotica, Serbia, 20-22 September 2012. - Piscataway : IEEE, 2012, p. 111-115. ISBN 978-1-4673-4751-8. |

Citácie:

*1. [1.1] KONECNY, Jan - OJEDA-ACIEGO, Manuel. On homogeneous L-bonds and heterogeneous L-bonds. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS. ISSN 0308-1079, 2016, vol. 45, no. 2, p. 160-186., WOS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

|  |  |
| --- | --- |
| AFD01 | WIMMER, Gejza - WITKOVSKÝ, Viktor - KÖNING, R. An algorithm for demodulation of correlated quadrature interferometer signals. In MEASUREMENT 2015 : 10th International Conference on Measurement. Editors J. Maňka, M. Tyšler, V. Witkovský, I. Frollo. - Bratislava : Institute of Measurement Science, SAS, 2015, p. 17-20. ISBN 978-80-969672-9-2. |

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*1. [3.1] VAJSÁBEL, M. - GRÚBEROVÁ, M. - KUREKOVÁ, E. - PALENČÁR, R. Advanced statistical methods used in practice. In International Journal of Application or Innovation in Engineering & Management (IJAIEM). ISSN 2319-4847, 2016, vol. 5, no. 4, p. 174-182.*

**\*AFDA Publikované príspevky na medzinárodných vedeckých konferenciách poriadaných v SR**

|  |  |
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| AFDA01 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. GOSCL as Facet-like Structures. In IEEE 12th International Symposium on Applied Machine Intelligence and Informatics (SAMI 2014). - Herlany, Slovakia, 2014, s. 321-326. ISBN 978-1-4799-3442-3. |

Citácie:

*1. [1.2] SINGH, Prem Kumar - ASWANI KUMAR, Ch. Analysis of composed fuzzy contexts through projection. In International Journal of Data Analysis Techniques and Strategies. ISSN 17558050, 2016, vol. 8, no. 3, p. 206-219., SCOPUS*

**AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií**

|  |  |
| --- | --- |
| AFE01 | WITKOVSKÝ, Viktor - WIMMER, Gejza. Exact statistical inference by using FFT inversion of the characteristic function. In ODAM 2015 : Olomoucian Days of Applied Mathematics. - Olomouc, Czech Republic : Palacký University in Olomouc, 2015, p. 89. |

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*1. [1.1] MEINTANIS, S.G. - ALLISON, J. - SANTANA, L. Goodness-of-fit tests for semiparametric and parametric hypotheses based on the probability weighted empirical characteristic function. In STATISTICAL PAPERS. ISSN 0932-5026, DEC 2016, vol. 57, no. 4, SI, p. 957-976., WOS*

**AGI Správy o vyriešených vedeckovýskumných úlohách**

|  |  |
| --- | --- |
| AGI01 | KOCHOL, Martin. Cycle double covering of graphs : technical report. TR-II-SAS-08/93-7. Bratislava : Institute for Informatics SAS, 1993. 7 p. |

Citácie:

*1. [1.1] ZHANG, Cun-Quan. Circuit Double Covers of Graphs. In GRAPH THEORY: FAVORITE CONJECTURES AND OPEN PROBLEMS 1. ISSN 0941-3502, 2016, p. 273-291., WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Funkcie komplexnej premennej

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 1

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 2

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 3

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 4

Počet hodín za semester: 26

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Názov semestr. predmetu: Teória pravdepodobnosti pre doktorandov

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra aplikovanej matematiky a štatistiky

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: 24

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra algebry, geometrie a didaktiky matematiky

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 12

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra algebry, geometrie a didaktiky matematiky

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 39

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 39

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: numerické metódy lineárnej algebry

Počet hodín za semester: 26

Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra matematiky, Stavebná fakulta

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: numerické metódy lineárnej algebry

Počet hodín za semester: 26

Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra matematiky, Stavebná fakulta

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě I

Počet hodín za semester: 26

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

Počet hodín za semester: 52

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

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

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: Analýza časových radov

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistická a digitálna podpora výskumu

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 1

Počet hodín za semester: 36

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 2

Počet hodín za semester: 36

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (2)

Počet hodín za semester: 78

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

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: University of Salzburg, Austria, Fachbereich Computerwissenschaften

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Mnohorozměrné statistické metody 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika, Modelování a statistika

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Seminář z plánování experimentu

Počet hodín za semester: 26

Názov katedry a vysokej školy: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika, Modelování a statistika   
   
Semináre:

Terénne cvičenia:

Individuálne prednášky:

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: ERASMUS+ Course on Parallel High Performance Computing

Počet hodín za semester: 8

Názov katedry a vysokej školy: Universidad Politecnica de Madrid, Spain, Escuela Tecnica Superior de Ingenieros Informaticos   
   
 ***Príloha E***

**Medzinárodná mobilita organizácie**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Karol Nemoga | 19 |
| Česko |  |  |  |  | Roman Frič | 2 |
|  |  |  |  |  | Stanislav Jakubec | 8 |
|  |  |  |  |  | Galina Jirásková | 6 |
|  |  |  |  |  | Giselle Monteiro | 4 |
|  |  |  |  |  | Karol Nemoga | 8 |
|  |  |  |  |  | Jozef Pócs | 2 |
|  |  |  |  |  | Sylvia Pulmannová | 1 |
|  |  |  |  |  | Dušana Štiberová | 2 |
| Grécko |  |  |  |  | Ondrej Šuch | 5 |
| Kanada |  |  |  |  | Roman Nedela | 6 |
| Nemecko |  |  |  |  | Martin Bečka | 3 |
|  |  |  |  |  | Michal Hospodár | 124 |
|  |  |  |  |  | Tibor Macko | 7 |
|  |  |  |  |  | Gabriel Okša | 3 |
| Rakúsko |  |  |  |  | Martin Kochol | 3 |
|  |  |  |  |  | Karol Nemoga | 2 |
| Rusko |  |  |  |  | Galina Jirásková | 10 |
| Španielsko |  |  |  |  | Giselle Monteiro | 11 |
| Taliansko |  |  |  |  | Michal Pospíšil | 7 |
| Veľká Británia |  |  |  |  | Dušana Štiberová | 4 |
| **Počet vyslaní spolu** |  |  |  |  | **21** | **237** |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Česko |  |  |  |  | Dominik Lachman | 1 |
|  |  |  |  |  | Jan Paseka | 1 |
|  |  |  |  |  | Jiří Janda | 1 |
|  |  |  |  |  | Michal Botur | 1 |
|  |  |  |  |  | Michal Hroch | 1 |
| Francúzsko |  |  |  |  | Friedrich Wehrung | 7 |
|  |  |  |  |  | Laurette Marais | 3 |
| **Počet prijatí spolu** |  |  |  |  | **7** | **15** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Belgicko | DLT 2017 | Michal Hospodár | 8 |
|  |  | Galina Jirásková | 8 |
| Bulharsko | ICIFS 2017 | Alžbeta Michalíková | 2 |
|  |  | Beloslav Riečan | 2 |
| Česko | ISCAMI 2017 | Dušana Štiberová | 4 |
|  | NCMA 2017 | Michal Hospodár | 3 |
|  |  | Galina Jirásková | 2 |
|  |  | Peter Mlynárčik | 3 |
|  |  | Matúš Palmovský | 2 |
|  | TACL 2017 | Sylvia Pulmannová | 5 |
|  | WkCerny | Michal Hospodár | 2 |
|  |  | Galina Jirásková | 2 |
|  |  | Ivana Krajňáková | 2 |
|  |  | Peter Mlynárčik | 2 |
| Francúzsko | CIAA 2017 | Michal Hospodár | 7 |
|  |  | Galina Jirásková | 7 |
|  |  | Ivana Krajňáková | 7 |
|  |  | Peter Mlynárčik | 7 |
|  |  | Matúš Palmovský | 7 |
|  | TQC 2017 | Martin Plávala | 3 |
| Holandsko | QPL/IQSA 2017 | Peter Eliaš | 8 |
|  |  | Roman Frič | 7 |
|  |  | Anna Jenčová | 5 |
|  |  | Martin Papčo | 7 |
|  |  | Dušana Štiberová | 4 |
| Kanada | SSMD 2017 | Roman Nedela | 6 |
| Maďarsko | AFL 2017 | Galina Jirásková | 5 |
|  |  | Peter Mlynárčik | 5 |
|  | QITMP 2017 | Anna Jenčová | 4 |
| Nemecko | ManKTh 2017 | Tibor Macko | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nemecko | PARNUM 2017 | Martin Bečka | 3 |
|  |  | Gabriel Okša | 3 |
|  |  | Marian Vajteršic | 3 |
|  | QI 2017 | Martin Plávala | 5 |
| Poľsko | 31stRealTheory | Peter Eliaš | 6 |
|  |  | Roman Frič | 6 |
|  |  | Ľubica Holá | 6 |
|  |  | Branislav Novotný | 6 |
|  | AALCS XXI | Emília Halušková | 7 |
|  | IWIFSGN 2017 a EUSFLAT 2017 | Katarína Čunderlíková | 5 |
|  |  | Alžbeta Michalíková | 5 |
|  |  | Beloslav Riečan | 5 |
|  | PPAM 2017 | Martin Bečka | 4 |
|  |  | Gabriel Okša | 4 |
| Portugalsko | OPODIS 2017 | Stefan Dobrev | 3 |
| Rakúsko | ALGOSENZORS 2017 | Stefan Dobrev | 5 |
|  | CHEOPS #5 | Eva Plávalová | 3 |
|  | MOVING AND COMPUTING 2017 | Stefan Dobrev | 1 |
| Srbsko | AAA94 | Emília Halušková | 4 |
|  |  | Miroslav Ploščica | 4 |
| Švédsko | AGOP 2017 | Jozef Pócs | 5 |
| Taliansko | ATI2017 | Tibor Macko | 5 |
|  | DCFS 2017 | Michal Hospodár | 5 |
|  |  | Galina Jirásková | 5 |
|  |  | Ivana Krajňáková | 5 |
|  |  | Peter Mlynárčik | 5 |
|  |  | Matúš Palmovský | 5 |
|  | HPCS 2017 | Marian Vajteršic | 5 |
|  | NATO ARW NGC 17 | Karol Nemoga | 5 |
| USA | PSIG 2017 | Igor Mračka | 3 |
|  |  | Tibor Žáčik | 3 |
| Veľká Británia | AMCTM 2017 | Gejza Wimmer | 3 |
|  | Quantum Networks 2017 | Anna Jenčová | 4 |
| **Spolu** | **32** | **62** | **282** |

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

Skratky použité v tabuľke C:

31stRealTheory - XXXIth International Summer Conference on Real Functions Theory

AAA94 - 94. Arbeitstagung Allgemeine Algebra

AALCS XXI - Applications of Algebra XXI

AFL 2017 - 15th International Conference on Automata and Formal Languages

AGOP 2017 - 9th International Summer School on Aggregation Functions

ALGOSENZORS 2017 - The 13th International Symposium on Algorithms and Experiments for Wireless Networks

AMCTM 2017 - Advanced Mathematical and Computational Tools in Metrology and Testing

ATI2017 - Analysis and Topology in Interaction

CHEOPS #5 - CHEOPS science workshop #5 (CHaracterizing ExOPlanet Satellite)

CIAA 2017 - Conference on Implementation and Applicatioin of Automata

DCFS 2017 - 19th International Conference on Descriptional Complexity of Formal Systems

DLT 2017 - Developments in Language Theory

HPCS 2017 - The 2017 International Conference on High Performance Computing & Simulation

ICIFS 2017 - 21th International Conference on Intuitionistic Fuzzy Sets

ISCAMI 2017 - 18th International Student Conference on Applied Mathematics and Informatics

IWIFSGN 2017 a EUSFLAT 2017 - The 16th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets a The 10th Conference of the European Society for Fuzzy Logic and Technology

ManKTh 2017 - Manifolds and K-Theory

MOVING AND COMPUTING 2017 - 8th Research Meeting on Distributed Computing by Mobile Robots

NATO ARW NGC 17 - NATO SPS Advanced Research Workshop on “New Generation CERTs: from Response to Readiness – Strategy and guidelines”

NCMA 2017 - 9th Workshop on Non-Classical Models of Automata and Applications

OPODIS 2017 - The 21st International Conference on Principles of Distributed Systems

PARNUM 2017 - International Workshop on Parallel Numerics

PPAM 2017 - 12th International Conference on Parallel Processing and Applied Mathematics

PSIG 2017 - Pipeline Simulation Interest Group 2017

QI 2017 - Quantum Incompatibility 2017

QITMP 2017 - Quantum Information Theory and Mathematical Physics

QPL/IQSA 2017 - 14th International Conference on Quantum Physics and Logic and IQSA Quantum Structures Workshop

QPL/IQSA 2017 - 14th International Conference on Quantum Physics and Logic

Quantum Networks 2017 - Quantum Networks 2017

SSMD 2017 - Symmetries of Surfaces, Maps and Dessins 2017

TACL 2017 - Topology, Algebra, and Categories in Logic 2017

TQC 2017 - Theory of Quantum Computation, Communication and Cryptography

WkCerny - Černý's Conjecture and Optimization Problems on Finite Automata ***Príloha F***

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| RNDr. Stefan Dobrev, PhD. |  | PB | Matematika bezdrôtových sietí | Deň otvorených dverí MÚ SAV 2017 | 9.11.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 1.Otvorí raz ocenená Lucka (9) šachovú školu? | Nový Čas; Šport | 15.3.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 10.12. septembra začal 11. ročník grantového programu Talenty Novej Európy | www.nextfuture.sk | 19.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 11.12. septembra začal 11. ročník grantového programu Talenty Novej Európy | www.webnoviny.sk | 19.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 12.12. septembra začal 11. ročník grantového programu Talenty Novej Európy | www.24hod.sk | 19.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | 2.http://www.24hod.sk/nadani-mladi-slovaci-ziskali-granty-programu-talenty-novej-europy-cl499545.html | 2.http://www.24hod.sk/nadani-mladi-slovaci-ziskali-granty-programu-talenty-novej-europy-cl499545.html | 13.3.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | RO | 3.Beseda o matematike v rádiu Aktual, 9.9.2017, 10.00--12.00 hod. | rádio Aktuál | 9.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 4.Grantový program Talenty Novej Európy dnes vstupuje do 11 | www.dobrenoviny.sk | 12.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 5.Grantový program Talenty Novej Európy dnes vstupuje do 11. Ročníka | www.teraz.sk | 12.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 6.Grantový program Talenty Novej Európy dnes vstupuje do 11. Ročníka | www.24hod.sk | 12.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 7.Mladé talenty podporia 66 tisíc eurami | www.netky.sk | 17.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 8.Mladí ľudia môžu opäť ukázať svoje nadanie | www.aktualne.sk | 18.9.2017 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | 9.12. septembra začal 11. ročník grantového programu Talenty Novej Európy | www.prservis.sk | 19.9.2017 |
| doc. RNDr. Roman Frič, DrSc. |  | PB | Matematika ako nástroj | Deň otvorených dverí MÚ SAV, Košice 2017 | 6.11.2017 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Kto, kde kedy a prečo vymyslel Pytagorovu vetu? | Deň otvorených dverí MÚ SAV 2017 | 9.11.2017 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | ESŠ, Liptovský Mikuláš | 8.11.2017 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | na ZŠ J.D.Matejovie, Liptovský Hrádok | 9.11.2017 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | ZŠ Demänovská cesta, Liptovský Mikuláš | 8.11.2017 |
| RNDr. Emília Halušková, CSc. |  | PB | Flexagóny | ZŠ Štrba | 10.11.2017 |
| RNDr. Galina Jirásková, CSc. |  | PB | O počte prvočísel menších ako daná hodnota - prednáška pre stredoškolákov | Opava, Česká republika | 1.12.2017 |
| Mgr. Tibor Macko, PhD. |  | PB | O Eulerovom vzorci a futbalovej lopte | Deň otvorených dverí MU SAV | 9.11.2017 |
| Mgr. Tibor Macko, PhD. | Lucia Lukušová | TV | Slovenských vedcov domov láka skôr rodina než peniaze | TA3 | 10.1.2017 |
| Mgr. Tibor Macko, PhD. | Veronika Folentová | IN | Za rok sa vrátilo z cudziny cez štátny program 8 odborníkov, miesto bolo pre 27 ľudí | https://dennikn.sk/672166/za-rok-sa-vratilo-z-cudziny-cez-statny-program-8-odbornikov-miesto-bolo-pre-27-ludi/ | 1.2.2017 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Matematika v hre, hra v matematike | Deň otvorených dverí MÚ SAV, Košice 2017 | 6.11.2017 |
| Mgr. Peter Mlynárčik, PhD. |  | PB | Matematika v hre, hra v matematike. | Piešťany, Vedecký brloh v Elektrárni | 20.5.2017 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Ako súvisí naša bezpečnosť s matematikou | Deň otvorených dverí MÚ SAV 2017 | 9.11.2017 |
| doc. RNDr. Karol Nemoga, CSc. |  | RO | Je matematika kráľovnou vied? | Rozhlasový rozhovor 21:00 - 24:00 | 21.1.2017 |
| doc. RNDr. Karol Nemoga, CSc. |  | RO | Nočná pyramída | Rozhlasový rozhovor, 21:00 - 24:00 | 2.5.2017 |
| doc. RNDr. Karol Nemoga, CSc. | Prednáška pre pánov profesorov LF UK | PB | Matematika a medicína. | Lekárska fakulta UK | 31.10.2017 |
| Mgr. Martin Plávala |  | PB | Aké veľké je nekonečno a prečo to už storočie trápi fyzikov? | Deň otvorených dverí matematického ústavu SAV | 9.11.2017 |
| Mgr. Martin Plávala |  | IN | Demonštrácia nekompatibility meraní v kvantovej mechanike | https://dennikn.sk/blog/demonstracia-nekompatibility-merani-v-kvantovej-mechanike/ | 6.11.2017 |
| RNDr. Emília Halušková, CSc. |  | iné | Matematický krúžok pre starších žiakov | MÚ SAV Košice | 15 |

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