**Matematický ústav SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2016**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2017

**Obsah osnovy Správy o činnosti organizácie SAV za rok 2016**

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

[2. Vedecká činnosť](#chapter2)

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

[4. Medzinárodná vedecká spolupráca](#chapter4)

[5. Vedná politika](#chapter5)

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

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

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

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

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

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

[12. Hospodárenie organizácie](#chapter12)

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

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

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

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

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

***PRÍLOHY***

[*A Zoznam zamestnancov a doktorandov organizácie k 31.12.2016*](#annexe1)

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

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

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

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

**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) (od 1. 7. 2016)

**Vedecký tajomník:** [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369) (do 30. 6. 2016)  
**Predseda vedeckej rady:** [Mgr. Anna Jenčová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380) (od 8. 11. 2016)  
**Predseda vedeckej rady:** [doc. RNDr. Ľubica Holá, DrSc.](http://www.sav.sk/index.php?lang=sk&doc=user-org-user&user_no=2378) (do 7. 11. 2016)

**Podpredseda vedeckej rady:** [Mgr. Marek Hyčko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) (od 8. 11. 2016)

**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 a UMB 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 a UMB 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** | 75 | 44 | 31 | 5 | 3 | 62 | 42,89 | 31,49 |
| **Vedeckí pracovníci** | 50 | 40 | 10 | 5 | 0 | 37 | 29,06 | 29,06 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 7 | 1 | 6 | 0 | 2 | 7 | 3,58 | 2,43 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Odborní pracovníci ÚS** | 14 | 3 | 11 | 0 | 0 | 14 | 9,1 | 0 |
| **Ostatní pracovníci** | 4 | 0 | 4 | 0 | 1 | 4 | 1,15 | 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 31.12.2016 (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 31.12.2016 (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 31.12.2016)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 11 | 30 | 8 | 12 | 11 | 11 | 18 |
| **Ženy** | 2 | 7 | 0 | 3 | 2 | 3 | 5 |

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

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2016

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | | **Vedeckí pracovníci** | | **Riešitelia projektov** | |
|  | **Bez úväzku** | **S úväzkom** | **Bez úväzku** | **S úväzkom** | **Bez úväzku** | **S úväzkom** |
| **Muži** | 53,5 | 36,0 | 53,5 | 36,7 | 53,7 | 39,2 |
| **Ženy** | 50,8 | 36,0 | 48,5 | 42,8 | 47,5 | 37,7 |
| **Spolu** | 52,4 | 36,0 | 52,5 | 37,9 | 52,1 | 38,8 |

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

Na ústave prebehla úspešná obhajoba troch dizertačných prác: Mgr. Kristíny Čevorovej, PhD., Mgr. Antona Sedliaka, PhD. a Mgr. Tomáša Gregora, PhD.

V rámci Týždňa vedy sme mali 8. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach a Liptovskom Mikuláši.

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.

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.

V r. 2016 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(2015)=0,366, päťročný impakt faktor 0,385 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. 2016 bol okolo 500.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,212 (Scimago Journal Ranking) a je v 4. kvartile.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Počet domácich projektov riešených v roku 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2016 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Vedecké projekty, ktoré boli   r. 2016 financované VEGA** | 14 | 2 | 82320 | 74865 | 3829 |
| **2. Projekty, ktoré boli r. 2016   financované APVV** | 1 | 3 | - | 3750 | 21617 |
| **3. Projekty OP ŠF** | 0 | 0 | - | - | - |
| **4. Projekty centier excelentnosti SAV** | 0 | 0 | - | - | - |
| **5. Iné projekty (FM EHP, ŠPVV,   Vedecko-technické projekty, ESF,   na objednávku rezortov a pod.)** | 4 | 0 | 71293 | 71293 | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Zoznam domácich projektov podaných v roku 2016

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2016** | - | 3 | 1 |
| **2. Projekty výziev OP ŠF**  **podané r. 2016** | Bratislava | - | - |
| Regióny | 1 | - |

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2016**

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2016 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Projekty 7. Rámcového   programu EÚ a Horizont 2020** | 0 | 0 | - | - | - |
| **2. Multilaterálne projekty v rámci   vedeckých programov COST,   ERANET, INTAS, EUREKA,   ESPRIT, PHARE, NATO, UNESCO,   CERN, IAEA, ESF (European   Science Foundation), ERDF a iné** | 0 | 0 | - | - | - |
| **3. Projekty v rámci medzivládnych   dohôd o vedecko-technickej   spolupráci** | 0 | 0 | - | - | - |
| **4. Bilaterálne projekty** | 1 | 0 | - | - | - |
| **5. Podpora medzinárodnej   spolupráce z národných zdrojov   (MVTS, APVV,...)** | 0 | 0 | - | - | - |
| **6. Iné projekty financované alebo   spolufinancované zo zahraničných   zdrojov** | 0 | 0 | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

**2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2016**

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2016

|  |  |  |
| --- | --- | --- |
|  | **A** | **B** |
| **Počet podaných projektov v 7. RP EÚ** | - | - |
| **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 podal v roku 2016 jeden projekt v rámci operačného programu Výskum a inovácie spoločne so spoločnosťou O2 v celkovej sume viac ako 4 mil. EUR. Projekty v tejto výzve sa budú realizovať od roku 2017.

**2.3. Najvýznamnejšie výsledky vedeckej práce** (maximálne 1000 znakov + 1 obrázok)

**2.3.1. Základný výskum**

**Charakterizácia niektorých spojitých aditívnych generátorov triangulárnych subnoriem**

Charakterizovali sme spojité, podmienečne kancelatívne t-subnormy, ktoré majú spojitý aditívny generátor. Napriek tomu, že všetky spojité kancelatívne t-subnormy majú spojitý aditívny generátor, v prípade podmienečne kancelatívnych t-subnoriem je situácia iná. Podarilo sa nám popísať podmienky, ktoré spojitá, podmienečne kancelatívna t-subnorma musí spĺňať, aby mala spojitý aditívny generátor. Skúmame tiež monotónnosť takéhoto generátora. Navyše, popisujeme aj konštrukciu príslušného spojitého aditívneho generátora.

**Autor:** Andrea Mesiarová-Zemánková

**Projekty:** VEGA 2/0049/14, APVV-0178-11 a Program Fellowship of SAS

**Referencia:** A. Mesiarová-Zemánková, *Continuous additive generators of continuous, conditionally cancellative triangular subnorms*, Information Sciences **339** (2016) 53–63.

**Characterization of some continuous additive generators of triangular subnorms**

The continuous, conditionally cancellative t-subnorms that possess a continuous, additive generator are discussed. While all cancellative continuous t-subnorms possess a continuous additive generator, it is different in the case of conditionally cancellative t-subnorms. Conditions for a continuous, conditionally cancellative t-subnorm to have a continuous, additive generator are described. The monotonicity of such an additive generator is examined. Constructions of corresponding additive generators are also shown.

**Author(s):** Andrea Mesiarová-Zemánková

**Projects:** VEGA 2/0049/14, APVV-0178-11 and Program Fellowship of SAS

**Reference:** A. Mesiarová-Zemánková, *Continuous additive generators of continuous, conditionally cancellative triangular subnorms*, Information Sciences **339** (2016) 53–63.

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**Minimálne usco a cusco zobrazenia**

Dokázali sme netriviálne zovšeobecnenie Arzela-Ascoliho vety (o charakterizácii kompaktných podmnožín spojitých funkcií) pre minimálne zhora spojité multifunkcie s kompaktnými hodnotami (usco) a pre minimálne zhora spojité multifunkcie s kompaktnými a konvexnými hodnotami (cusco). Tieto zobrazenia sú veľmi dôležitým nástrojom v optimalizácii, vo funkcionálnej analýze, v štúdiu diferencovateľnosti lipschitzovských funkcií a v selekčných vetách.

**Autori:** Ľ. Holá, D. Holý

**Projekty:** VEGA 2/0018/13, APVV-0269/11

**Referencia:** Ľ. Holá, D. Holý, *Minimal usco and minimal cusco maps*, Journal of Mathematical Analysis and Applications **439** (2016), 737–749.

**Minimal usco and minimal cusco maps**

We proved a non trivial generalization of the Arzela-Ascoli Theorem from continuous functions to minimal upper semicontinuous compact valued maps (usco) and minimal upper semicontinuous compact and convex valued maps (cusco). Such maps are very important tool in optimization, in functional analysis, in the study of differentiability of Lipschitz functions and in selection theorems.

**Authors:** Ľ. Holá, D. Holý

**Projects:** VEGA 2/0018/13, APVV-0269/11

**Reference:** Ľ. Holá, D. Holý, *Minimal usco and minimal cusco maps*, Journal of Mathematical Analysis and Applications **439** (2016), 737-749.

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**Všetky merania vo všeobecnej probabilistickej teórii sú kompatibilné vtedy a len vtedy ak je stavový priestor simplex**

Kompatibilita meraní je teoretická možnosť vykonať dve merania súčasne. V našej práci sme študovali kompatibilitu meraní na konečno-rozmernej, kompaktnej a konvexnej množine stavov v modernom jazyku všeobecných probabilistických teórii, ktorý zovšeobecňuje aparát používaný na popis kvantovej teórie informácie. Sformulovali sme nutné a postačujúce podmienky pre kompatibilitu dvoj-výsledkových meraní, ktoré sme použili na dokázanie, že všetky merania sú kompatibilné iba ak je priestor stavov simplex.

Fyzikálna interpretácia výsledku práce je, že len simplex môže byť stavovým priestorom klasického systému, v ktorom musia byť z definície všetky merania kompatibilné. Z matematického pohľadu výsledok poukazuje na spojitosť medzi geometriou stavového priestoru a vlastnosťami danej všeobecnej probabilistickej teórie.

**Autor:** Martin Plávala

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

**Referencia:** M. Plávala, *All measurements in a probabilistic theory are compatible if and only if the state space is a simplex*, Phys. Rev. A **94** (2016), 042108.

**All measurements in a probabilistic theory are compatible if and only if the state space is a simplex**

Compatibility of measurements is the theoretical possibility of performing the two measurements simultaneously. In our work we studied the compatibility of measurements on finite-dimensional compact convex state space in the modern framework of general probabilistic theory that generalizes the framework used in quantum information theory. We formulate the necessary and sufficient conditions for two-outcome measurements to be compatible and we use these conditions to show that there exist incompatible measurements whenever the state space is not a simplex.

On one hand the physical interpretation of the result is that only simplex state space corresponds to a classical system where all measurements are compatible. On the other hand from the mathematical perspective the result shows the connection between geometry of the state space and properties of the general probabilistic theory.

**Author:** Martin Plávala

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

**Reference:** M. Plávala, *All measurements in a probabilistic theory are compatible if and only if the state space is a simplex*, Phys. Rev. A **94** (2016), 042108.

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**Operácie na jednoznačných automatoch**

Nedeterministický automat je jednoznačný ak má na každom vstupnom slove najviac jeden akceptujúci výpočet. Pojem jednoznačnosti je základným pojmom v teórii kódov s variabilnou dĺžkou slova. Skúmali sme zložitosť základných regulárnych operácií na jazykoch reprezentovaných jednoznačnými automatmi. Získali sme presnú zložitosť pre prienik, ľavý a pravý kvocient, pozitívny a Kleeneho uzáver, shuffle a zreťazenie. Na dôkaz dolných odhadov sme použili binárnu abecedu pre prienik a ľavý a pravý kvocient, ternárnu abecedu pre pozitívny a Kleeneho uzáver, päťpísmenkovú abecedu pre shuffle a sedempísmenkovú abecedu pre zreťazenie. Najzaujímavejším výsledkom článku je získanie dolného odhadu 20,79n pre doplnok jednoznačných automatov.

**Autori**: J. Jirásek, Jr., **G. Jirásková**, J. Šebej

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

**Referencia:** J. Jirásek, Jr., G. Jirásková, J. Šebej, *Operations on unambiguous finite automata*, In: S. Brlek and C. Reutenauer (Eds.): Developments in Language Theory - 20th International Conference, DLT 2016, Montreal, Canada, July 25-28, 2016, Proceedings. Lecture Notes in Computer Science, vol. 9840, pp. 243–255. Springer 2016.

<http://dx.doi.org/10.1007/978-3-662-53132-7_20>

**Operations on unambiguous finite automata**

A nondeterministic finite automaton is unambiguous if it has at most one accepting computation on every input string. The notion of unambiguity is a fundamental notion in the theory of variable-length codes. We investigated the complexity of basic regular operations on languages represented by unambiguous finite automata. We got the exact complexities for intersection, left and right quotients, positive and Kleene closure, shuffle, and concatenation. To prove lower bounds, we used a binary alphabet for intersection and left and right quotients, a ternary alphabet for star and positive closure, a five letter alphabet for shuffle, and a seven-letter alphabet for concatenation. The most interesting result of the paper is obtaining the upper bound 20.79n for complementation of unambiguous automata.

**Authors:** J. Jirásek, Jr., **G. Jirásková,** J. Šebej

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

**Reference:** J. Jirásek, Jr., G. Jirásková, J. Šebej, *Operations on unambiguous finite automata*, In: S. Brlek and C. Reutenauer (Eds.): Developments in Language Theory - 20th International Conference, DLT 2016, Montreal, Canada, July 25-28, 2016, Proceedings. Lecture Notes in Computer Science, vol. 9840, pp. 243–255. Springer 2016.

<http://dx.doi.org/10.1007/978-3-662-53132-7_20>

**2.3.2. Aplikačný typ**

**Analýza a optimalizácia paralelného Jacobiho SVD algoritmu**

Jednostranná bloková Jacobiho metóda je známa ako efektívny metóda na výpočet SVD na paralelnom počítači. Zamerali sme sa na náš algoritmus s paralelným dynamickým usporiadaním a variabilným blokovým faktorom. Ukázali sme detailnú teoretickú analýzu jeho konvergenčných vlastností. Identifikovali sme dve problématické miesta algoritmu a navrhli sme jeho novú implementáciu na ich odstránenie. Experimentálne výsledky ukazujú, že tieto zlepšenia sú efektívne a dosahujeme s nimi zrýchlenie výpočtu 2,0 a 1,5 násobné na počítačoch FX10 a Altic ICE. Toto naše vylepšenie následne prekonáva procedúru PDGESVD zo ScaLAPACKu takmer vždy pre matice rádu 2160 až 8640 na uvedených počítačoch použitím 8 až 144 nódov.

**Autori:** S. Kudo, Y. Yamamoto, **M. Bečka**, **M. Vajteršic**

**Projekt:** VEGA 2/0026/14

**Referencia**: S. Kudo, Y. Yamamoto, M. Bečka, M. Vajteršic, *Performance analysis and optimization of the parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking*, Concurrency Computat.: Pract. Exper. (2016), Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cpe.4059

**Analysis and optimization of parallel Jacobi SVD algorithm**

The one-sided block Jacobi (OSBJ) method is known to be an efficient method for computing the singular value decomposition on a parallel computer. We focused on our OSBJ with parallel dynamic ordering and variable blocking. We provided a detailed theoretical analysis of its convergence properties. We identified two performance bottlenecks of the algorithm and proposed new implementations to resolve the problem. Experimental results show that they are effective and can achieve up to 2.0 and 1.5 times speedup of the total execution time on the FX10 and the Altix ICE. As a result, our OSBJ solver outperforms ScaLAPACK PDGESVD in almost all cases when computing the SVD of matrices of order 2160 to 8640 on these machines using 8 to 144 nodes.

**Authors:** S. Kudo, Y. Yamamoto, **M. Bečka, M. Vajteršic**

**Project:** VEGA 2/0026/14

**Reference:** S. Kudo, Y. Yamamoto, M. Bečka, M. Vajteršic: *Performance analysis and optimization of the parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking*, Concurrency Computat.: Pract. Exper. (2016), Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cpe.4059

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**Analýza spoľahlivosti automatických uzatváracích ventilov**

Pre zvýšenie bezpečnosti prepravy plynu sú pozdĺž potrubí inštalované bezpečnostné ventily. Automatické zatváranie ventilov je aktivované v prípade havárií, keď pokles tlaku v priebehu daného časového intervalu prekročí nastavenú prahovú hodnotu. Aktivácia závisí na prahu citlivosti, vzdialenosti medzi ventilom a polohou roztrhnutia, prepravných podmienok a konštrukčných parametrov potrubia. Zaoberali sme sa kvalitatívnymi a kvantitatívnymi podmienkami nutnými pre spoľahlivé fungovanie bezpečnostných ventilov. Tieto podmienky boli určené a overené pomocou numerickej simulácie vysoko dynamického prúdenia plynu po roztrhnutí potrubia. Taktiež sme analyzovali správanie sa bezpečnostných ventilov pri reálnych haváriách.

**Autori:** R. Hajossy, I. Mračka, A. Sedliak, T. Sedláková, T. Žáčik (vedúci)

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

**Analysis of reliability of automatic shut-off valves**

To increase a safety of a gas transport, automatic shut-off valves are installed along the pipelines. The automatic closing of the valves is activated in an accident when pressure drop during given time interval exceeds a set threshold. Activation depends on a sensitivity setting, distance between a valve and a rupture position, gas transport conditions and construction parameters of a pipeline. We deal with qualitative and quantitative conditions for a reliable functioning of safety valves. The conditions were determined and verified by a numerical simulation of high transient gas flow after ruptures. Behaviors of safety valves at real ruptures were analyzed as well.

**Authors:** R. Hajossy, I. Mračka, A. Sedliak, T. Sedláková, T. Žáčik (head)

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

**2.3.3. Medzinárodné vedecké projekty**

**n-Perfektné kite pseudo efektové algebry**

Kite pseudo efektové algebry predstavujú zaujímavú konštrukciu pseudo efektových algebier, keď sa vychádza z kladného a záporného kónusu v čiastočne usporiadanej grupe, dvoch bijekcií na indexovej množine. Ukázali sme kedy takéto algebry spĺňajú určitý druh Rieszovej dekompozičnej vlastnosti ako aj ich reprezentáciu v intervale lexikografickeho súčinu po-grúp. Okrem toho sme definovali n-perfektné kite pseudo efektové algebry a charakterizovali sme subdirektne ireducibilné algebry, ktoré tvoria stavebné kocky tejto teórie.

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

**Projekty:** APVV-0178-11, grant VEGA No. 2/0059/12 SAV, GAČR 15-15286S.

**Referencia:** M. Botur, A. Dvurečenskij, *On pseudo BL-algebras and pseudo hoops with normal maximal filters*, Soft Computing **20** (2016), 439–448.

**n-Perfect kite pseudo effect algebras**

Kite pseudo effect algebras were recently introduced as a class of interesting examples of pseudo effect algebras using a po-group, an index set and two bijections on the index set. We showed when these algebras satisfy some kind of the Riesz Decomposition Property, and we represent kite pseudo effect algebras with a special kind of the Riesz Decomposition Property as an interval in a lexicographic extension of the po-group which solves an open problem on representation of kites. In addition, we introduce kite n-perfect pseudo effect algebras and we characterize subdirectly irreducible algebras which are building blocks of the theory.

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

**Projects:** APVV-0178-11, grant VEGA No. 2/0059/12 SAV, GAČR 15-15286S.

**Reference:** M. Botur, A. Dvurečenskij, *On pseudo BL-algebras and pseudo hoops with normal maximal filters*, Soft Computing **20** (2016), 439–448.

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**Bežiace vlny v nelineárnych magneto-indukčných mriežkach**

Metamateriály sú umelé materiály, ktoré sú skonštruované tak, aby mali vlastnosti, ktoré sa nemusia nenachádzať v prírode. Magnetické metamateriály sú nemagnetické materiály vykazujúce magnetické vlastnosti. Keď je metamateriál zložený z magnetických metamateriálov, ktoré sú slabo zviazané cez ich vzájomné indukcie, dostávame magneto-indukčné metamateriály t.j. magneto-indukčné mriežky. Šírenie elektromagnetických vĺn v magneto-indukčných metamateriáloch bolo prejednávané a modelované pomocou viacerých typov nelineárnych rovníc ako nelineárna Kleinova-Gordonova rovnica, zviazaná krátko-pulzová rovnica, Schrödingerove rovnice s nelinearitami vyšších rádov a zviazané Kleinove-Gordonove rovnice. My sme študovali zviazané Kleinove-Gordonove rovnice. Uvažovali sme rovnicu na mriežke modelujúcu jedno-rozmerný magneto-indukčný metamateriál formovaný ako zoskupenie nelineárne implicitne zviazaných nelineárnych rezonátorov s periodickými silami. Boli prezentované výsledky o existencii a jednoznačnosti riešení periodických bežiacich vĺn v danom systéme. Podmienka rezonancie parametrických hodnôt bola tiež odvodená, ktorá viedla k viacnásobným riešeniam. Naše analytické výsledky boli zistené v dobrej zhode s priamymi numerickými výpočtami.

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

**Projekt:** VEGA 2/0029/13

**Referencia:** M. Agaoglou, M. Fečkan, M. Pospíšil, V. M. Rothos, H. Susanto, *Travelling waves in nonlinear magneto-inductive lattices*, Journal of Differential Equations **260** (2016), 1717–1746.

[http://www.sciencedirect.com/science/article/pii/S0022039615005112](http://www.sciencedirect.com/science/article/pii/s0022039615005112)

**Travelling waves in nonlinear magneto-inductive lattices**

Metamaterials are artificial materials that are engineered to have properties that may not be found in nature. Magnetic metamaterials are non-magnetic materials exhibiting magnetic properties. When the materials composed of magnetic metamaterials are magnetically weakly coupled through their mutual inductances, one obtains magneto-inductive metamaterials, i.e, magneto-inductive lattices. The propagation of electromagnetic waves in magneto-inductive metamaterials has been discussed and modeled by several types of nonlinear equations, such as a nonlinear Klein-Gordon equation, coupled short-pulse equation, higher-order nonlinear Schrödinger equations and coupled Klein-Gordon equations. We studied coupled Klein–Gordon equations. We considered a lattice equation modeling one-dimensional magneto-inductive metamaterials formed by a discrete array of nonlinearly implicitly coupled nonlinear resonators with periodic forces. The existence and uniqueness results of traveling waves of the system are presented. The resonance condition for the parameter values is also derived leading to multiplicity results. Our analytical results are found to be in good agreement with direct numerical computations.

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

**Project:** VEGA 2/0029/13

**Reference:** M. Agaoglou, M. Fečkan, M. Pospíšil, V. M. Rothos, H. Susanto, *Travelling waves in nonlinear magneto-inductive lattices*, Journal of Differential Equations **260** (2016), 1717–1746.

[http://www.sciencedirect.com/science/article/pii/S0022039615005112](http://www.sciencedirect.com/science/article/pii/s0022039615005112)

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**Dedekind–MacNeilleovo zúplnenie a formálna konceptová analýza založená na multizväzoch.**

Formálna konceptová analýza je relatívne novou matematickou teóriou, ktorá sa zaoberá analýzou dát. Je vhodná pre identifikáciu konceptuálnych štruktúr nachádzajúcich sa v súboroch dát. Táto teória je založená na štúdiu Galoisových konexií pôsobiacimi medzi rôznymi typmi čiastočne usporiadaných množín (posetov). Na druhej strane, Dedekindovo-MacNeillovo zúplnenie čiastočne usporiadanej množiny P reprezentuje dobre známy pojem a je ho možné vidieť ako istým spôsobom najmenší úplný zväz obsahujúci P. V tejto práci sú analyzované nejaké výsledky týkajúce sa spomínaného zúplnenia čiastočne usporiadaných množín konceptov asociovaných s Galoisovou konexiou pôsobiacou medzi posetmi. Špeciálne, je ukázaná zaujímavá vlastnosť Dedekindovho-MacNeillovho zúplnenia, a to, že zúplnenie čiastočne usporiadanej množiny konceptov danej Galoisovej konexie definovanej medzi posetmi sa zhoduje s konceptovým zväzom Galoisovej konexie pôsobiacej medzi prislúchajúcimi zúplneniami. Taktiež je študovaný špecifický prípad, kedy P má multizväzovú štruktúru. Ďalším hlavným výsledkom tejto práce je vyslovenie a dokázanie reprezentačnej vety zodpovedajúcej tomuto prípadu.

**Autori**: J. Medina (Univ. Cadiz, Spain), M. Ojeda-Aciego (Univ. Malaga, Spain), **J. Pócs** (MÚ SAV), E. Ramírez-Poussa (Univ. Cadiz, Spain)

**Projekt**: ESF Fund CZ.1.07/2.3.00/30.0041

**Referencia:** J. Medina, M. Ojeda-Aciego, J. Pócs, E. Ramírez-Poussa, *On the Dedekind–MacNeille completion and formal concept analysis based on multilattices*, Fuzzy Sets and Systems **303** (2016), 1–20.

**On the Dedekind–MacNeille completion and formal concept analysis based on multilattices.**

Formal Concept Analysis is a relatively new mathematical theory of data analysis for identification of conceptual structures among data sets. On the other side, the Dedekind–MacNeille completion of a poset P represents the well-known notion and it can be seen as a certain least complete lattice containing P. In this work some results concerning the use of this completion within the framework of Formal Concept Analysis in terms of the poset of concepts associated with a Galois connection between posets are analyzed. Specifically, an interesting property of the Dedekind–MacNeille completion is showed, i.e., that the completion of the concept poset of a Galois connection between posets coincides with the concept lattice of the Galois connection extended to the corresponding completions. Moreover, the specific case when P has a multilattice structure is studied. As one of the main results the corresponding representation theorem is stated and proved.

**Authors:** J. Medina (Univ. Cadiz, Spain), M. Ojeda-Aciego (Univ. Malaga, Spain), **J. Pócs** (MÚ SAV), E. Ramírez-Poussa (Univ. Cadiz, Spain)

**Project:** ESF Fund CZ.1.07/2.3.00/30.0041

**Reference:** J. Medina, M. Ojeda-Aciego, J. Pócs, E. Ramírez-Poussa, *On the Dedekind–MacNeille completion and formal concept analysis based on multilattices*, Fuzzy Sets and Systems **303** (2016), 1–20.

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**Prehľadávanie dynamických kruhov naslepo**

Skoro celá bohatá literatúra o prehľadávaní grafov predpokladá že grafy sú statické: topológia grafu sa počet prehľadávania nemení, až na občasné chyby. Doposiaľ, veľmi málo je známe o prehľadávaní dynamických grafov so sústavne sa meniacou topológiou. Tých zopár prác, ktoré sa tejto problematike venujú, sa sústredilo na centralizovaný (post-mortem) prípad, predpokladajúc úplnú apriori znalosť zmien a ich časovania, a iba pre plne synchrónne systémy.

V tejto práci začíname štúdium decentralizovaného (live) prehľadávania dynamických grafov, keď agenti operujú v grafe bez znalosti a časovania zmien. Uvažujeme dynamické kruhy so štandardným predpokladom 1-interval-súvislosti, a skúmame uskutočniteľnosť prehľadávania pre plne synchrónny, ako aj semisynchrónny model. Keď je prehľadávanie možné, preskúmame za akú cenu, zamerajúc sa na minimalizáciu počtu agentov potrebných na preskúmanie kruhu. Ukážeme viacero výsledkov, ktoré osvetľujú vplyv anonymity a štrukturálnej vedomosti na riešiteľnosť a zložitosť tohto problému.

**Autori:** G.A. Di Luna (Univ. of Rome "Sapienza", Taliansko), **S. Dobrev** (MÚ SAV), P. Flocchini (Univ. of Ottawa, Kanada), Nicola Santoro (Carleton Univ., Kanada)

**Projekt:** VEGA 2/0165/16

**Referencia:** G. A. Di Luna, S. Dobrev, P. Flocchini, N. Santoro, *Live Exploration of Dynamic Rings*, ICDCS 2016, 570–579.

**Live Exploration of Dynamic Rings**

Almost all the vast literature on graph exploration assumes that the graph is static : its topology does not change during the exploration, except for occasional faults. To date, very little is

known on exploration of dynamic graphs, where the topology is continuously changing. The few studies have been limited to the centralized (or post-mortem) case, assuming complete a priori knowledge of the changes and the times of their occurrence, and have only considered fully synchronous systems. In this paper, we start the study of the decentralized (or live) exploration of dynamic graphs, i.e. when the agents operate in the graph unaware of the location and timing of the changes. We consider dynamic rings under the standard 1-interval-connected restriction, and investigate the feasibility of their exploration, in both the fully synchronous and semi-synchronous cases. When exploration is possible we examine at what cost, focusing on the minimum number of agents capable of exploring the ring. We establish several results highlighting the impact that anonymity and structural knowledge have on the feasibility and complexity of the problem.

**Authors:** G.A. Di Luna (Univ. of Rome "Sapienza", Taliansko), **S. Dobrev** (MÚ SAV), P. Flocchini (Univ. of Ottawa, Kanada), Nicola Santoro (Carleton Univ., Kanada)

**Project**: VEGA 2/0165/16

**Reference:** G. A. Di Luna, S. Dobrev, P. Flocchini, N. Santoro, *Live Exploration of Dynamic Rings*, ICDCS 2016, 570–579.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |  |  |
| --- | --- | --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **A  Počet v r. 2016/ doplnky z r. 2015** | **B  Počet v r. 2016/ doplnky z r. 2015** | **C  Počet v r. 2016/ doplnky z r. 2015** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách**  (AAB, ABB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách**  (AAA, ABA) | **1 / 1** | **0 / 0** | **0 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách** (BAB, ACB, CAB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách** (BAA, ACA, CAA) | **0 / 0** | **0 / 0** | **0 / 0** |
| **5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách** (ABD) | **0 / 0** | **0 / 0** | **0 / 0** |
| **6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách** (ABC) | **1 / 2** | **0 / 0** | **0 / 0** |
| **7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách** (BBB, ACD) | **0 / 0** | **0 / 0** | **0 / 0** |
| **8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách** (BBA, ACC) | **0 / 0** | **0 / 0** | **0 / 0** |
| **9. Vedecké práce registrované v Current Contents Connect**  (ADCA, ADCB, ADDA, ADDB) | **47 / 5** | **0 / 0** | **0 / 0** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus**  (ADMA, ADMB, ADNA, ADNB) | **12 / 4** | **0 / 0** | **0 / 0** |
| **11. Vedecké práce v ostatných domácich časopisoch**  (ADFA, ADFB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**  (ADEA, ADEB) | **6 / 3** | **0 / 0** | **0 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**  (AEDA) | **0 / 0** | **0 / 0** | **0 / 0** |

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| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **A  Počet v r. 2016/ doplnky z r. 2015** | **B  Počet v r. 2016/ doplnky z r. 2015** | **C  Počet v r. 2016/ doplnky z r. 2015** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**  (AECA) | **2 / 0** | **0 / 0** | **0 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**  (AFB, AFD) | **0 / 0** | **0 / 0** | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**  (AFA, AFC) | **16 / 2** | **0 / 0** | **0 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** | **0** | **0** |
| **18. Ostatné vydané periodiká** | **3** | **0** | **0** |
| **19. Vydané alebo editované zborníky z vedeckých podujatí**  (FAI) | **0 / 0** | **0 / 0** | **0 / 0** |
| **20. Preklady vedeckých a odborných textov**  (EAJ) | **0 / 0** | **0 / 0** | **0 / 0** |
| **21. Heslá v odborných terminologických slovníkoch a encyklopédiách**  (BDA, BDB) | **0 / 0** | **0 / 0** | **0 / 0** |

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Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Kvartil vedeckého časopisu podľa IF z r. 2015 (zdroj JCR)** | **Q1** | **Q2** | **Q3** | **Q4** | **Spolu** |
| *Počet článkov / doplnky* | 17/2 | 16/0 | 13/3 | 8/2 | 54/7 |
| **Kvartil vedeckého časopisu podľa SJR z r. 2015 (zdroj Scimago)** |  |  |  |  |  |
| *Počet článkov* | 27 / 1 | 21 / 4 | 7 / 4 | 1 / 0 | 56 / 9 |

Tabuľka 2g Ohlasy

|  |  |  |
| --- | --- | --- |
| **OHLASY** | **A  Počet v r. 2015/ doplnky z r. 2014** | **B  Počet v r. 2015/ doplnky z r. 2014** |
| **Citácie vo WOS (1.1, 2.1)** | 636 / 21 | 3 / 0 |
| **Citácie v SCOPUS (1.2, 2.2)** | 151 / 6 | 1 / 1 |
| **Citácie v iných citačných indexoch a databázach (9, 10,   3.2, 4.2)** | 1 / 0 | 0 / 0 |
| **Citácie v publikáciách neregistrovaných v citačných   indexoch (3, 4, 3.1, 4.1)** | 54 / 6 | 0 / 0 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 | 0 / 0 |

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**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 55 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 1 |

**Účasť a vedenie seminárov**

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

**vedúci:** R. Frič

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

**účastníci:** I. Krajňáková, 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)

**účasť:** I. Vrťo

**Seminár z kvantových logík**

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

**referáty:** R. Frič (2x), G. Monteiro, M. Plávala

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

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

**vedúci:** L. Bukovský (PF UPJŠ)

**referáty:** P. Eliaš (6x), M. Repický (5x)

**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 (2x), M. Ploščica (2x), J. Pócs (4x)

**Set-Valued Analysis**

**vedúci:** Ľ. Holá

**referáty:** B. Novotný (3x)

**Seminár z diferenciálnej geometrie na Svf STU**

**vedúci:** P. Sarkoci (Svf STU)

**referáty:** A. Jenčová (4x)

**Seminár z funkcionálnej analýzy**

**vedúci:** S. Pulmannová

**referáty:** A. Jenčová (8x)

**Seminár z teoretickej informatiky**

**vedúci:** G. Jirásková

**referáty:** G. Jiráskova (5x)

**Seminár z teórie automatov**

**vedúci:** G. Jirásková

**referáty:** G. Jiráskova (4x)

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

**vedúci:** J. Korbaš

**referáty:** T. Macko (8x)

**účastník:** J. Korbaš

**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)

**referáty:** J. Pócs (2x)

**Seminár z teórie čísel**

**vedúci:** O. Strauch

**referáty:** O. Strauch (11x)

**Oberseminar Topologie na Univ. Bonn**

**vedúci:** T. Macko

**Seminar Arbeitsgruppe Lueck na Univ. Bonn**

**vedúci:** Prof. Lueck (Univ. Bonn)

**referáty:** T. Macko

**Seminár z kryptológie na FEI STU**

**vedúci:** O. Grošek (FEI STU)

**účastníci:** K. Nemoga

**2.6. Vyžiadané prednášky**

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

 **JENČOVÁ, A.**: *Quantum divergences and interpolation, Workshop on Quantum Information Theory and Mathematical Physics,* Budapest, Maďarsko, 16.9.-19.9.2016.

 **JIRÁSKOVÁ, G.**: *Self-verifying finite automata and descriptional complexity, Descriptional Complexity of Formal Systems - 18th IFIP WG 1.2 International Conference, DCFS 2016,* Bucharest, Rumunsko, 5.7.-8.7.2016*.*

 **MONTEIRO, G.A.**: *Extremal solutions of measure differential equations and applications to impulsive systems,* O.D.E. 60, Brno, ČR, 6.6.-8.6.2016.

 **NEDELA, R.**: *Hamilton cycles in graphs embedded into surfaces, Graphs, Groups, Spectra and Symmetries* *(15.8.-28.8.2016)*, Novosibirsk State University, Novosibirsk, Rusko, 28.8.2016.

 **VAJTERŠIC, M.**: *Parallelization approaches for NMF and SVD,* University of Erlangen-Nuernberg, Kolloqium, Erlangen, Nemecko, 25.5.2016.

 **VAJTERŠIC, M.**: *MIMD parallelization of matrix decomposition methods,* University of Malaga, Seminar, Malaga, Španielsko, 4.5.2016.

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

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

 **HALUŠKA, J.**: *Dobrakov integration versus Kurzweil integration, Seminář o diferenciálních rovnicích a teorii integrálu*, Special session in honor of the 90th birthday of Jaroslav Kurzweil, Praha, ČR, 11.5.-13.5.2016.

 **MONTEIRO, G.A.**: *Convergence results for the abstract Kurzweil-Stieltjes integral*, *Seminář o diferenciálních rovnicích a teorii integrálu*, Special session in honor of the 90th birthday of Jaroslav Kurzweil, Praha, ČR, 11.5.-13.5.2016.

**2.6.4. Ostatné prednášky na medzinárodných vedeckých podujatiach**

 **BEČKA, M.**: *Progress in the Parallel Jacobi SVD Algorithm over Last Years, Algoritmy 2016,* Podbanské, 13.3.-18.3.2016.

 **BORSÍK, J.**: *Points of uniform convergence and quasicontinuous functions, 5th International Scientific Conference Analysis, Topology, Algebra: Theory and its Appplications (ATA 2016), Čačak, Srbsko, 6.7.-9.7.2016.*

 **BORSÍK, J.**: *Points of porouscontinuity, 30th International Summer Conference on Real Functions Theory, Stará Lesná, 4.9.-9.9.2016.*

 BUTKA, P.— **PÓCS, J.**— PÓCSOVÁ, J.: *Two step Reduction of GOSCL Based on Subsets Quality Measure and Stability Index, The 10th edition of International Conference on Multimedia & Network Information Systems (MISSI 2016),* Wrocław*, Poľsko, 14.9.-16.9.2016.*

 **ČEVOROVÁ, K.**: *Square on Closed Languages, NCMA 2016,* Debrecen, Maďarsko, 29.8.-30.8.2016.

 **ELIAŠ, P.**: *A Galois connection related to the uniform approximability of continuous functions, 30th International Summer Conference on Real Functions Theory,* Stará Lesná, 4.9.–9. 9.2016*.*

 EOM, H.S.—**PALMOVSKÝ, M.**: *Combined operations on prefix-free and suffix-free languages, NCMA 2016,* Debrecen, Maďarsko, 29.8.-30.8.2016.

 FABŠIČ, T.—GROŠEK, O.—**NEMOGA, K.**—ZAJAC, P.: *On generating invertible circulant binary matrices with a prescribed number of ones*, *ArcticCrypt*, Longyearbyen, Nórsko, 17.7.-22.7.2016.

 **FRIČ, R.**: *Duality: random variables vs observables, 30th International Summer Conference on Real Functions Theory,* Stará Lesná*,* 4.9.-9.9.2016.

 **FRIČ, R.**: *What is Jakubík number?, History of Mathematics and Teaching of Mathematics,* Eger, Maďarsko*, 18.5.-22.5.2016.*

 **FRIČ, R.**: *Probability: from Boolean to Lukasiewicz random events, Different aspects of Analysis and probability,* Rzeszów, Poľsko*, 26.9.-27.9.2016.*

 **FRIČ, R.**—**ELIAŠ, P.**: *Factorizing observables, Biennial Meeting of the International Quantum Structures Association “QS Leicester 2016”,* Leicester*, Veľká Británia, 11.7.-15.7.2016.*

 **FRIČ, R.**— **PAPČO, M.**: *On probability domains, IV, Biennial Meeting of the International Quantum Structures Association “QS Leicester 2016”,* Leicester*, Veľká Británia, 11.7.-15.7.2016.*

 **FRIČ, R.**— **PAPČO, M.**: *From classical to fuzzy probability I., 13-th Conference on Fuzzy Set Theory and Applications FSTA 2016,* Liptovský Ján*, 24.1.-29.1.2016.*

 **FRIČ, R.**— **PAPČO, M.**: *From classical to fuzzy probability II., 13-th Conference on Fuzzy Set Theory and Applications FSTA 2016,* Liptovský Ján*, 24.1.-29.1.2016.*

 GFRERER, CH.—**VAJTERŠIC, M.**— KUTIL, R.: *Parallel alignment algorithms for big number of strings, HPCS 2016,* Innsbruck, Rakúsko*,* 18.7.-22. 7. 2016.

 **GYÜRKI, Š.**: *A construction of infinite families of directed strongly regular graphs, Graphs, Groups, Spectra and Symmetries (15.8.-28.8.2016),* Novosibirsk State University,Novosibirsk, Rusko, 16.8.2016.

 **GYÜRKI, Š.**: *Construction of directed strongly regular graphs using homogeneous equitable partitions, Workshop on Algebraic graph theory (2.10.-7.10.2016),* Plzeň, ČR, 4.10.2016.

 HALAŠ, R.— MESIAR, R.— **PÓCS, J.**: *Generalized comonotonicity and a characterization of discrete Sugeno integrals on bounded distributive lattices., An international symposium on aggregation and structures (ISAS 2016),* Luxembourg*, 5.7.-8.7.2016*

 **HALUŠKA, J.**: *On field factor representation of bicomplex numbers,, 30th International Summer Conference on Real Functions Theory,* Stará Lesná*, 4.9.-9.9.2016.*

 **HALUŠKOVÁ, E.**: *On direct limit closed classes of algebras, AALCS XX,* Zakopane, Poľsko*, 7.3..-12.3.2016*

 **HOLÁ, Ľ.**—HOLÝ, D.: *Quasicontinuous subcontinuous functions and compactness, ATA 2016,* Čačak, Srbsko*, 6.7.-10.7.2016.*

 **HOLÁ, Ľ.**—HOLÝ, D.: *Ascoli-type theorem for quasicontinuous subcontinuous functions, ICTA 2016,* Ohrid, Macedónsko*, 18.9.-21.9.2016.*

 **HOSPODÁR, M.**: *Complexity of unary union-free and unary star-free languages, NCMA '16,* Debrecen*,* Maďarsko, *29.8.-30.8.2016.*

 **HOSPODÁR, M.**— **JIRÁSKOVÁ, G.**: *Concatenation on deterministic and alternating automata, NCMA '16,* Debrecen, Maďarsko*, 29.8.-30.8.2016.*

 **HYČKO, M.**—**DVUREČENSKIJ, A.**: *Hyper effect algebras, 13-th Conference on Fuzzy Set Theory and Applications FSTA 2016,* Liptovský Ján*, 24.1.-29.1.2016.*

 **JENČOVÁ, A.**: *Comparison of quantum channels and statistical experiments, 2016 IEEE International Symposium on Information Theory,* Barcelona, Španielsko,10.7.-15.7.2016.

 **JENČOVÁ, A.**: *Characterization of sufficient channels by a Rényi relative entropy (poster), Beyond IID in Information Theory 4,* Barcelona, Španielsko*,* 18.7.-22. 7. 2016*.*

 **JIRÁSKOVÁ, G.**: *On the state complexity of the shuffle of regular languages, Descriptional Complexity of Formal Systems - 18th IFIP WG 1.2 International Conference, DCFS 2016,* Bucharest, Rumunsko, 5.7.-8.7.2016.

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata, Developments in Language Theory - 20th International Conference, DLT 2016,* Montreal, Kanada, 25.7.-28.7.2016.

 **MACKO, T.**: *The total surgery obstruction, Topology of manifolds,* Lisabon, Portugalsko, 28.6.2016*.*

 **MACKO, T.**: *L-homology and ball complexes, Winter school on bordism, L-theory and real algebraic K-theory,* Regensburg, Nemecko, 5.12.2016.

 **MLYNÁRČIK, P.**— **JIRÁSKOVÁ, G.**— **HOSPODÁR, M.**: *Nondeterministic Complexity of Operations on Closed and Ideal Languages, CIAA 2016,* Seoul, Južná Kórea, 19.7.-22.7.2016.

 **MONTEIRO, G.A.**: *A note on Kurzweil-Stieltjes integrability and some classes of functions, Summer Symposium in Real Analysis XL*, Sarajevo, Bosna a Hercegovina, 20.6.-24.6.2016.

 **MONTEIRO, G.A.**: *Classes of functions adjoint with respect to Stieltjes type integrals, 30th International Summer Conference on Real Functions Theory*, Stará Lesná, 5.9.-9.9.2016.

 **NEDELA, R.**: *Automorphism Groups of Planar Graphs and Spherical Groups, Czech, Slovenian, Austrian, Slovak and Catalan Mathematical Societies joint meeting (20.9.-23.9.2016)*, Barcelona, Španielsko, 23.9.2016.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**,: *Cardinal invariants of the m-topology and the density of the uniform topology on C(X)., 30th Summer Conference on Real Functions Theory,* Stará Lesná, 4.9.-8.9.2016.

 **NOVOTNÝ, B.**— **HOLÁ, Ľ.**,: *Topology of the uniform convergence and m-topology on C(X)., International Conference on Topology and its Applications 2016,* Ohrid, Macedónsko, 16.9.-23.9.2016.

 **PLÁVALA, M.**: *Conditions for optimal input states for discrimination of quantum channels, 13th Central European Quantum Information Processing Workshop,* Valtice, ČR, 16.6.-19.6.2016.

 **PLOŠČICA, M.**: *Congruence FD-maximal algebras, Summer School on General Algebra and Ordered Sets,* Trojanovice, ČR, 3.9.-9.9.2016.

 **PULMANNOVÁ, S.**: *Synaptic algebras as models for quantum mechanics, Workshop on Effect Algebras, Boolean Algebras and Related Topics,* Udine, Taliansko, 24.1.-28.1.2016.

 **PULMANNOVÁ, S.**: *Two projections in a synaptic algebra, Biennial Meeting of IQSA 2016, University of Leicester,* Leicester, Veľká Británia, 11.7.-15.7.2016.

 **PULMANNOVÁ, S.**: *Integral representation of states on quantum structures, Summer School on Algebra and Ordered Sets,* Trojanovoce, ČR, 3.9.- 9.9.2016.

 **STRAUCH, O.**: *Mahler's conjecture on $zeta(3/2)45.n mod 1$, 5th International Conference on Uniform Distribution Theory,* Sopron, Maďarsko, 4.7.-8.7.2016.

 **ŠTIBEROVÁ, D.**: *Triangular norms and conorms in statics, Different Aspects of Analysis and Probability,* Rzeszów, Poľsko 26.9.-27.9.2016.

 **ŠTIBEROVÁ, D.**: *Probability integral as a linearization, 30th International Summer Conference on Real Function Theory,* Stará Lesná, 4.9.-9. 9. 2016.

 **VINCEKOVÁ, E.**— **PULMANNOVÁ, S.**: *A remark on effect tribes, FSTA 2016,* Liptovský Ján, 24-29. 1. 2016.

 **WIMMER, G.**— WITKOVSKÝ, V.: *Computing the distribution of collective risk models via numerical inversion the characteristic function, CMStatistics 2016, 9th International Conference on Computational and Methodological Statistics,* Seville, Španielsko, 9.12.-11.12.2016.

**2.6.5. Ostatné prednášky na domácich vedeckých podujatiach**

 **MACKO, T.**: *Topológia vysoko-rozmerných variet, Trojkráľová konferencia 2016, FMFI UK, Bratislava, 4.1.2016.*

**2.6.6. Ostatné prednášky na významných vedeckých inštitúciách**

 **HOLÁ, Ľ.**: *Pointwise topological convergence and graph topological convergence of set-valued maps,* Department of Mathematics, Perugia University, 12.6.-20.6.2016.

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata, Seminár z teoretickej informatiky, Katedra informatiky Fakulta matematiky, fyziky a informatiky Univerzity Komenského,* Bratislava, 25.11.2016.

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata, Department of Algebra and Geometry Faculty of Science Masaryk University,* Brno, ČR, 1.12. 2016.

 **JIRÁSKOVÁ, G.**: *Self-verifying finite automata,* St. Petersburg Department of V. A. Steklov Institute of Mathematics of the Russian Academy of Sciences, St. Petersburg, Rusko, 9.12.2016.

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata,* Chebyshev Laboratory, St. Petersburg State University, St. Petersburg, Rusko, 12.12.2012.

 **MACKO, T.**: *Homology Manifolds, Geometric Topology Seminar,* Max Planck Institute for Mathematics, Bonn, Nemecko, 4.7.2016.

 **MONTEIRO, G.A.**: On the distinguishing features of the Kurzweil integral, Seminár z modelovania neurčitosti, SvF STU, Bratislava, 2.6.-3.6.2016.

 **MONTEIRO, G.A.**: *Extremal solutions for impulsive systems via Kurzweil equations, Seminár z kvalitatívnej teórie diferenciálnych rovníc,* FMFI UK, Bratislava, 15.12.2016.

 **MONTEIRO, G.A.**: *Generalized differential equations: a study of Kurzweil integral and its applications, Institute of Mathematics of the Chinese Academy of Sciences,* Beijing, China, 17.11.2016.

 **MONTEIRO, G.A.**: *Kurzweil-Stieltjes integral: a tool to characterize some classes of functions, College of Science of the Hohai University,* Nanjing, China, 21.11.2016.

 **MONTEIRO, G.A.**: *Dobrakov integral and Kurzweil integral: a comparative study, College of Science of the Hohai University,* Nanjing, China, 23.11.2016.

 **MONTEIRO, G.A.**: *Kurzweil-Stieltjes integral and some particular classes of functions,* Faculty of Mathematics and Computer Sciences of Adam Mickiewicz University, Poznan, Poľsko, 5.12.-10.12.2016.

 **MONTEIRO, G.A.**: *Extremal solutions of measure differential equations,* Faculty of Mathematics and Computer Sciences of Adam Mickiewicz University, Poznan, Poľsko, 5.12.-10.12.2016.

**2.6.7. Ostatné prednášky a vývesky**

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata, Seminár z teoretickej informatiky,* Katedra informatiky Fakulta matematiky, fyziky a informatiky Univerzity Komenského, Bratislava, 25.11.2016.

 **JIRÁSKOVÁ, G.**: *Operations on unambiguous finite automata,* Department of Algebra and Geometry Faculty of Science Masaryk University, Brno, 1.12. 2016.

 **NEMOGA, K.**: *Open Acces in Slovak Academy of Sciences*, *Dutch Presidency conference on Open Science*, Europe Building, Amsterdam, Holandsko, 4.4.-5.4.2016.

 **NEMOGA, K.**: *NATO Science for Peace and Security Programme, Security solutions given by Cryptography*, *Letná škola Dependable Software Systems Engineering*, organiz. Technische Universität München, Marktoberdorf, Nemecko, 3.8.-12.8.2016.

 **NEMOGA, K.**: *Open Acces z hľadiska autora, vydavateľa, čitateľa a spoločnosti*, *Open Government Week*, Bratislava, 19.10.2016.

*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 2016**

**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 2016 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. Iné informácie k vedeckej činnosti.**

**Ostatné dosiahnuté výsledky:**

 Boli charakterizované body rovnomernej konvergencie a body lokálne rovnomernej konvergencie postupnosti funkcií.

 Študovali sme otázku ako najefektívnejšie môžu dva roboty opustiť cyklus cez známe exity, ak nevedia svoju polohu.

 Dosiahli sme nové výsledky v analýze dobre študovaného problému stránkovania zameraním sa na prípad pravdepodobnostného protivníka vyberajúceho rozvrh prichádzajúcich stránok.

 Študovali sme novú formu pseudo equality algebier, nazvaných JK-algebry, ktoré bola inšpirovaná s BCK-algebrami uzavretých na priesek. Popísané sú kongruencie a varieta JK-algebier je subtraktívna, kongruenčne distributívna a kongruenčne permutovaná.

 Našli sme podmienky, kedy pseudo MV-algebra je intervalom v lexikografickom súčine Abelovskej lineárne usporiadanej grupe s l-grupou. Ukázali sme, že kategória takýchto algebier je kategoriálne ekvivalentná kategórii l-grúp. Podobné otázky sa študovali aj pre prípad lexikografických pseudo efektových algebier.

 Študovali sme o špeciálne typy L-usporiadaných množín, L-fuzzy úplných zväzoch a fuzzy usmernených úplných posetoch. Našli sa podmienky pre charakterizáciu fix-pointov monotónnych zobrazení takýchto fuzzy štruktúr.

 Skúmali sa pseudo BL-algebry a pseudo hoopy, v ktorých každý maximálny filter je normálny. Takéto algebry tvoria varietu a pre ňu sme našli ekvacionálnu bázu.

 Definovali sme Olsonove usporiadanie ohraničených pozorovateľných v totálne úplných efektových algebrách, ktoré je založené na jedno-jednoznačnej korešpondencii medzi pozorovateľnými a ich spektrálnymi rozkladmi. Ukázali sme, že v takomto prípade, systém všetkých ohraničených pozorovateľných je úplný zväz.

 Charakterizovali sme uzavreté systémy reálnych funkcií a podmnožín reálnej priamky vzhľadom na uzáverové operátory v Galoisovej konexii definovanej rovnomernou aproximovateľnosťou spojitých funkcií špeciálnymi funkciami. Ukázali sme, že uzavreté systémy funkcií určené aproximovateľnosťou konštantnými funkciami sú spočítateľne generované. Našli sme inverzne kvadratické ohraničenie pre binárny rank matíc grafov rozširujúcich turnaje.

 Našli sme bifurkácie periodických riešení pre nespojité diferenciálne rovnice.

 Študovala sa riaditeľnosť, pozorovateľnosť a stabilita nelineárnych systémov.

 Skúmali sme kvalitatívne vlastnosti dynamických systémov.

 Boli popísané tri kategórie charakterizujúce zovšeobecnenú pravdepodobnosť a bola dokázaná ich duálna ekvivalencia, resp. izomorfnosť. Faktorizácia pozorovateľných bola využitá pri reprezentácii a pri smearingu fuzzy pozorovateľných.

 Rozpracovala sa teória mnohopolárnej (mnohofarebnej) analýzy, ktorá má aplikácie hlavne v optike a komunikačnej technike.

 Študovali sme axiomatické triedy algebier, ktoré sú uzavreté na direktné limity. Niektoré z týchto tried nie je možné popísať ako triedy logiky prvého rádu. Inšpirovaní výsledkami H. J. Keislera z roku 1960 pre logiku prvého rádu sme získali nekonečne dlhú formulu s nekonečným počtom premenných, ktorej modelom je trieda algebier uzavretá na direktné limity.

 Dokázali sme, že pre monounárne algebry môže byť táto formula ešte viac zovšeobecnená. Charakterizovali sme všetky axiomatické triedy algebier logiky prvého rádu. V tomto prípade stačí uvažovať direktné systémy algebier indexované lineárne usporiadanou množinou prirodzených čísel.

 Skúmali sme nedeterministickú a deterministickú stavovú zložitosť nasledujúcich operácií na unárnych bezhviezdičkových a nezjednocujúcich regulárnych jazykoch: prienik, zjednotenie, zreťazenie, štvorec, pozitívny uzáver, Kleeneho uzáver, doplnok.

 Študovala sa stavová zložitosť operácie zreťazenia na regulárnych jazykoch reprezentovaných deterministickými a alternujúcimi konečnými automatmi. Pre deterministické automaty sme ukázali, že horná hranica *m2n-k2n-1* stavovej zložitosti zreťazenia môže byť dosiahnutá ternárnymi jazykmi, z ktorých prvý je akceptovaný *m*-stavovým DFA s *k* koncovými stavmi a druhý *n*-stavovým DFA s *l* koncovými stavmi pre ľubovoľné celé čísla *m*, *n*, *k*, *l*. V prípade, že *k≤m-2*, to je, v prípade keď prvý automat má aspoň dva nekoncové stavy, sme schopní poskytnúť zodpovedajúce binárne svedčiace jazyky. Týchto svedkov používame na opis páru binárnych jazykov, ktoré dosahujú hornú hranicu *2m+n+1* pre zreťazenie alternujúcich konečných automatov. To rieši otvorený problém spomenutý Fellahom, Jürgensenom a Yuom [1990, Constructions for alternating finite automata, Intern. J. Computer Math. 35, 117-132], kde je dokázaná táto horná hranica.

 Bol nájdený príklad nekonečnej lineárne usporiadanej hyper efektovej algebry, ktorá sa líši od intervalovej konštrukcie hyper efektových algebier aplikovanej na štandardnú efektovú algebru definovanú na intervale [0,1].

 Bola dokázaná verzia Le Camovho randomizačného kritéria pre kvantové kanály a štatistické experimenty.

 Našlo sa rozšírenie tzv. sendvičovej kvantovej verzie Rényiho relatívnej α-entropie pre α>1 pre normálne stavy na všeobecnej von Neumannovej algebre a bolo dokázané, že jej zachovávanie charakterizuje suficientné kanály.

 Dokázali sme, že zložitosť jazykov získaných operáciou zreťazenie môže nadobúdať všetky hodnoty od 1 po známy horný odhad.

 Dosiahli sme čiastočné výsledky pre zložitosť operácie shuffle na úplných deterministických automatoch.

 Študovali sme kanonické formy totálne cyklických a acyklických orientácií grafov. Pomocou nich sme zaviedli nové formuly pre tokové a napäťové polynómy pomocou Ehrhartových polynómov. Ukázali sme, že tieto kanonické formy je možné konštruovať v polynomiálnom čase.

 Ukázali sme, že charakteristický rank vektorovej fibrácie môže byť nápomocný v zlepšovaní našich vedomostí.

 Predstavili sme nový prístup k štúdiu jadra aditívneho homomorfizmu daného súčinom s prvou Stiefelou–Whitneyho triedou kanonickej k-rovinovej fibrácie nad Grassmannovou varietou k-rozmerných vektorových podpriestorov v euklidovskom n-priestore. Táto metóda nám umožňuje zlepšiť porozumenie pre *Z/2*-kohomológie orientovaných Grassmannových variet.

 Študovali sme kvadratické reťazcové komplexy nad diskovými komplexmi a získali sme súčinové formuly.

 Študovala sa Spivakova normálová fibrácia nad Poincarého komplexami, ktoré nie sú jednoducho-súvislé.

 Určili sme nedeterministickú stavovú zložitosť základných regulárnych operácií na triedach prefixovo, suffixovo, faktorovo a subwordovo uzavretých regulárnych jazykov a na triedach pravých, ľavých, obojstranných aj všestranných ideáloch. Pre operácie zjednotenia, prieniku, doplnku, zreťazenia, štvorca, Kleenovho uzáveru a zrkadlového obrazu sme dostali tesné horné hranice vo všetkých uvažovaných triedach.

 V súvislosti s prípravou monografie Kurzweil-Stieltjes Integral, našiel sa jednoduchší dôkaz pre integrovanie per partes a ďalšie výsledky o konvergenciách boli skúmané. Študovala sa tiež problematika Dobrakovho integrálu.

 Dokázali sme, že m-topológia na priestore spojitých funkcií sa chová ako metrická v zmysle, že mnohé kardinálne invarianty ako váha, celularita, hustota a Lindeloffovo číslo sú pre túto topológiu rovnaké. V skutočnosti sú rovné hustote topológie rovnomernej konvergencie.

 Našli sme dôkaz kvadratickej asymptotickej konvergencie sériovej klasickej blokovej Jacobiho metódy pre EVD Hermitovských matíc.

 Dokázali sme kvadratickú asymptotickú konvergencie paralelnej blokovej Jacobiho metódy s dynamickým usporiadaním subproblémov pre EVD Hermitovských matíc.

 Študovali sme geometrické vlastnosti meraní vo všeobecných probabilistických teóriách. Niektoré zo získaných výsledkov boli publikované.

 Dokázali sme, že kritický bod medzi dvoma lokálne konečnými, kongruenčne distributívnymi varietami s vlastnosťou kompaktného prieniku môže byť najviac ℵ1.

 Boli študované kompatibilné agregačné funkcie na ohraničených distributívnych zväzoch. Pre tieto typy funkcií sa podarilo zjednodušiť známy výsledok G. Grätzera, týkajúci sa charakterizácie kompatibilných funkcií.

 Skúmalo sa zovšeobecnenie pojmu komonotónnosti pre vektory s hodnotami z distributívnych zväzov. Na základe tejto zovšeobecnenej komonotónnosti a štúdia kompatibilných funkcií sa podarilo popísať niekoľko axiomatických vlastností tzv. Sugenových integrálov, ktoré sú definované na ohraničených distributívnych zväzoch.

 Porovnali sme rôzne pojmy súčasnej merateľnosti (kompatibility) pozorovateľných na zväzových sigma-efektových algebrách, a všeobecnejšie, na sigma-efektových algebrách, ktoré sa dajú pokryť sigma-MV-algebrami.

 V rámci synaptickej algebry sme študovali dve zoslabené verzie komutativity: kvázi-komutativitu a operátorovú komutativitu, a našli sme prirodzené podmienky pre synaptickú algebru, za ktorých sú tieto dve zoslabené verzie ekvivalentné komutativite.

 Ukázali sme, že synaptická algebra A má vlastnosť monotónnej druhej odmocniny, t.j. ak *0 ≤ a, b ∈ A*, tak *a ≤ b ⇒ a1/2 ≤ b1/2* . K dôkazu sme požili metódu monotónnych operátorových funkcií.

 Získali sme spresnenie odhadu Brendla, Khomskeho a Wohofského pre kofinalitu Laverovho ideálu a výsledok doplňujúci vetu Balcara-Vojtáša o dizjunktných zjemneniach v Booleových algebrách.

 Dokázali sme Mahlerovu hypotézu o postupnosti *(3/2)n* mod *1* ako neexistencia distribučnej funkcie *g(x)*, ktorá by splnila danú funkcionálnu rovnosť.

 Stavy vo fuzzy pravdepodobnosti boli charakterizované ako linearizácie, ktoré na udalostiach vytvárajú iniciálnu štruktúru.

 Získal sa efektívny paralelný algoritmus na výpočet faktorizácie nezáporných matíc (NMF) pre superpočítačové systémy a spravila sa jeho matematická analýza.

 Našli sa nové horné hranice pre 2-stránkové a rektilineárne priesečníkové číslo grafu n-rozmernej hyperkocky.

 Podrobne boli analyzované jednotlivé parametrické modely kolektívneho rizika, stanovená bola distribučná funkcia a hustota rozdelenia celkovej škody metódou numerickej inverzie charakteristickej funkcie celkovej škody.

 Navrhnutý bol nový postup na analýzu kompaktnosti (celistvosti) textu pri ktorom sa berú do úvahy aj vzdialenosti súvisiacich viet v texte.

 Spravila sa analýza niektorých spoločných vlastností rozdelení za účelom ich spájania do tried rozdelení, podrobná charakterizácia týchto tried a vytvorenie nových algoritmov na generovanie náhodných čísel.

 Vytvárajú sa základy pilotnej verzie „internetovej encyklopédie“ diskrétnych a spojitých rozdelení.

 Vyvíjal sa programu v softvéri R, ktorý bude schopný testovať zhodu rozdelenia pravdepodobnosti s dátami pre vybrané diskrétne rozdelenia.

 Robil sa teoretický výskum matematicko-štatistických modelov a metód pre viacrozmernú kalibráciu.

 Rozpracovala sa teória kalibrácie snímačov a prevodníkov, stanovenie neistôt pri kalibrácii snímačov pre normálne aj iné rozdelenia, vypracovanie postupov vyhodnotenia kalibrácie použiteľných pri práci v laboratóriách.

 Vyhodnotila sa kalibrácia snímačov v oblasti tepelno-technických a mechanických veličín so spojitou stupnicou (prevodníky tlakov, termoelektrické snímače teploty, odporové snímače teploty, atď.) a určovali sa kalibračné hodnoty v oblasti fyzikálno-chemických veličín prostredníctvom merania s využitím certifikovaných referenčných materiálov.

 Rozvinuli sa metódy a algoritmy pre určenie exaktných resp. aproximatívnych pravdepodobnostných rozdelení výsledkov merania pomocou kombinovania a invertovania charakteristických funkcií rozdelenia vstupných veličín a charakterizáciu neistôt v metrológii.

**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 2016

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2016** | | | | **Počet ukončených doktorantúr v r. 2016** | | | | | |
|  | **Doktorandi** | | | | **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Interná zo zdrojov SAV** | 4 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 1 |
| **Interná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| **Spolu** | 4 | 3 | 0 | 3 | 2 | 1 | 0 | 0 | 1 | 1 |
| **Súhrn** | 7 | | 3 | | 3 | | 0 | | 2 | |

**3.2. Zmena formy doktorandského štúdia**

Tabuľka 3b Počty preradení z interných foriem na externé a z externej formy na interné

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pôvodná forma** | **Interná z prostriedkov SAV** | **Interná z prostriedkov SAV** | **Interná z iných zdrojov** | **Interná z iných zdrojov** | **Externá** | **Externá** |
| **Nová forma** | **Interná z iných zdrojov** | **Externá** | **Interná z prostriedkov SAV** | **Externá** | **Interná z prostriedkov SAV** | **Interná 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 2016 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. Kristína Čevorová | interné štúdium hradené z prostriedkov SAV | 9 / 2012 | 9 / 2016 | 9.1.9 aplikovaná matematika | RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach | Fakulta matematiky, fyziky a informatiky UK |
| **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. Tomáš Gregor | interné štúdium hradené z prostriedkov SAV | 9 / 2012 | 8 / 2016 | 9.1.9 aplikovaná matematika | doc. RNDr. Ján Haluška CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach | Fakulta matematiky, fyziky a informatiky UK |
| Mgr. Anton Sedliak | interné štúdium hradené z prostriedkov SAV | 9 / 2011 | 8 / 2016 | 9.1.9 aplikovaná matematika | doc. RNDr. Rudolf Hajossy CSc., Matematický ústav SAV | Fakulta matematiky, fyziky a informatiky UK |

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

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

Tabuľka 3d 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 3e 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) |  |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Anatolij Dvurečenskij, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR) |  |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika) | doc. RNDr. Roman Frič, DrSc. (Katolícka univerzita v Ružomberku) |  |
| prof. RNDr. Michal Fečkan, DrSc. (matematická analýza) | doc. RNDr. Roman Frič, DrSc. (Pedagogická fakulta KU) |  |
| prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty) | RNDr. Stanislav Jakubec, DrSc. (Přírodovědecká fakulta, Univerzita Hradec Králové, ČR) |  |

|  |  |  |
| --- | --- | --- |
| **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** |
| prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika) | prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| doc. RNDr. Roman Frič, DrSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Roman Nedela, DrSc. (Fakulta matematiky, fyziky a informatiky UK) |  |
| doc. RNDr. Roman Frič, DrSc. (geometria a topológia) | prof. RNDr. Roman Nedela, DrSc. (Fakulta prírodných vied UMB) |  |
| doc. Mgr. Marián Grendár, PhD. (aplikovaná matematika) | prof. RNDr. Roman Nedela, DrSc. (Univerzita Mateja Bela v Banskej Bystrici) |  |
| doc. RNDr. Ľubica Holá, DrSc. (matematická analýza) | 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) |  |  |

|  |  |  |
| --- | --- | --- |
| **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** |
| prof. RNDr. Gejza Wimmer, DrSc. (kvantitatívne metódy v ekonómii) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |

**3.5. Údaje o pedagogickej činnosti**   
Tabuľka 3f Prednášky a cvičenia vedené v roku 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 8 | 2 | 4 | 2 |
| **Celkový počet hodín v r. 2016** | 387 | 111 | 648 | 127 |

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

Tabuľka 3g Aktivity pracovníkov na VŠ

|  |  |  |
| --- | --- | --- |
| **1.** | **Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti   diplomových a bakalárskych prác** | 13 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 23 |
|
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 5 |
|
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 12 |
|
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 10 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 6 |
|
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc.   prác** | 2 |
|
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD.   prác** | 5 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 6 |
|

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

Mnohí 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

**G. Jirásková:** RNDr. Juraj Šebej (PF UPJŠ Košice) - 9.2.1 Informatika - interný doktorand (úspešne ukončené 2016)

**J. Korbaš:** Mgr. Tomáš Rusin (FMFI UK Bratislava) - 9.1.7 Geometria a topológia - interný doktorand

**R. Nedela:** Mgr. Peter Zeman (KAM MFF UK, Praha) - 4I1 Teoretická informatika - interný doktorand

**M. Repický:** Mgr. Michal Dečo (PF UPJŠ Košice) - 9.1.6 Diskrétna matematika - interný doktorand

**B. Riečan:**

 Mgr. Daniela Kluvancová (FPV UMB B. Bystrica) - 9.1.11 Pravdepodobnosť a matematická štatistika - interný doktorand

 Mgr. Jaroslav Považan (FPV UMB B. Bystrica) - 9.1.4 Matematická analýza - 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 2016 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
32nd Spring conference on Computer Graphics, Smolenice, 30 účastníkov, 27.04.-29.04.2016

Tradičné medzinárodné stretnutie stretnutie zamerané na všetky aspekty počítačovej grafiky.

16th Central European Conference on Cryptology (CECC), Piešťany, 40 účastníkov, 22.06.-24.06.2016

Tradične stredoeurópske stretnutie kryptológov, založené na MÚ SAV (spolu s FEI STU).

30. medzinárodná letná konferencia z teórie reálnych funkcií, Stará Lesná, 65 účastníkov, 04.09.-09.09.2016

Parallel Numerical Computing and Its Applications, Smolenice, 07.09.-09.09.2016

Worshop devoted to honor work of Prof. Marian Vajteršic.

Workshop - Algebraic Graph Theory, Plzeň, ČR, 30 účastníkov, 03.10.-07.10.2016

Workshop on Algebraic Theory 2016 is focused on various problems in algebraic graph theory.

Globálne existenciálne riziká 2016, Bratislava, 35 účastníkov, 15.11.-15.11.2016

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2017 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
EuroHCC 2017 (European Historical Ciphers Colloquium)/EuroHCC 2017 (European Historical Ciphers Colloquium), Smolenice, 18.05.-19.05.2017, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

CryptArchi Workshop 2017 (modern logic devices in cryptography)/CryptArchi Workshop 2017 (modern logic devices in cryptography), Smolenice, 40 účastníkov, 18.06.-21.06.2017, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

Graph Embeddings and Maps on Surfaces (GEMS 2017)/Graph Embeddings and Maps on Surfaces (GEMS 2017), Podbanské, 30.07.-04.08.2017, (Roman Nedela, 048/4701 201, nedela@savbb.sk)

Global Existential Risks 2017/Globálne existenciálne riziká 2017, Bratislava, 15.11.-15.11.2017, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

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

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Typ výboru** | **Programový** | **Organizačný** | **Programový i organizačný** |
| **Počet členstiev** | 8 | 3 | 3 |

**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. Mgr. Marián Grendár, PhD.

American Mathematical Society (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

AMS American Mathematical Society (funkcia: člen)

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 ISEG (hodnotenie vedeckých projektov NATO) | 20 |

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

Počas vzájomných návštev O. Straucha (MÚ SAV) a Š. Porubského (UI AV ČR, Praha) v rámci centrálnych dohôd došlo k doplneniu (rozšírenie z pôvodných 569 na 692 strán) ich spoločnej publikácie z roku 2005, *Distribution Sequences: A Sampler,* a príprave jej elektronickej verzie, ktorá je dostupná na adrese: https://math.boku.ac.at/udt/books/MYBASISNew.pdf.

*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. 2016 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 2 granty, kde sa ústav zmluvne podieľa na riešení. Okrem toho sa v r. 2016 na ústave riešili 4 grantové úlohy v rámci APVV. 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. mala 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. Dr. T. Macko získal miesto na ústave v rámci Podpornej schémy na návrat odborníkov zo zahraničia od 22.8.2016.

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.

Budúcnosť Matematického ústavu závisí aj od kvality a kvantity doktorandov. Bohužiaľ, finančné zabezpečenie doktorandov nie je optimálne a nová legislatíva ohľadom štipendií pravdepodobne znížila záujem o doktorandské štúdium, čo sa v posledné roky aj ukazuje. Toto je, žiaľ, spoločný problém všetkých ústavov SAV ako aj vysokých škôl. Navyše nie je dostatočne vysoká kvalita absolventov vysokých škôl, ktorí preto radšej volia doktorandské štúdium na svojej alma mater, ktoré je často ľahké, lebo je to už tretí stupeň vysokoškolského štúdia, ako náročné štúdium na ústavoch SAV, kde štúdium je viac vedecky orientované. Napriek tomu na MÚ SAV v r. 2016 nastúpili dve interné a jedna externá doktorandka. 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. 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. V roku 2016 bola ukončená dlhoročná spolupráca so spoločnosťou eustream, a.s., ktorá bola zameraná na výpočet optimálneho nastavenia plynovodu na tranzit plynu. Dlhodobo spolupracuje s ttc, s.r.o (bývalá CSE-Controls) v oblasti zahraničných plynovodných sietí s dôrazom na zisťovanie a lokalizáciu únikov plynu. Pracovníci Matematického ústavu SAV dlhodobo spolupracujú v problematike IT bezpečnosti s Ministerstvom obrany SR a Národným bezpečnostným úradom.

Pracovníci ústavu so všetkými pobočkami v Bratislave, Košiciach a B. Bystrici sa veľmi aktívne zúčastňujú aj pedagogického pôsobenia na vysokých školách. V r. 2008 sme obnovili Inštitút matematiky a informatiky, spoločné pracovisko MÚ SAV a UMB v Banskej Bystrici.

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

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

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

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

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

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

**Začiatok spolupráce:** 1990

**Zameranie:** pedagogika, veda a výskum

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

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

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

**Začiatok spolupráce:** 1999

**Zameranie:** pedagogika, veda a výskum

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** školiteľ doktoranda

**Začiatok spolupráce:** 2012

**Zameranie:** PhD. školiteľ

**Zhodnotenie:** Vedenie doktorandského štúdia Juraja Šebeja, začiatok v r. 2012.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** vedenie diplomových prác

**Začiatok spolupráce:** 2015

**Zameranie:** diplomové práce

**Zhodnotenie:** Vedenie diplomových prác Ivany Krajňákovej a Zuzany Brťkovej.

**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:** Fakulta prírodných vied UMB

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

**Začiatok spolupráce:** 2008

**Zameranie:** veda a výskum, pedagogika

**Zhodnotenie:** V r. 2008 bol obnovený Inštitút matematiky a informatiky, spoločné pracovisko MÚ SAV a UMB v Banskej Bystrici. Vedenie bakalárov, vedenie diplomantov, výučba na katedre informatiky, vedenie a účasť na seminároch, účasť na projekte Centra excelencie.

**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:** Pedagogická fakulta KU

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

**Začiatok spolupráce:** 2016

**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: Aplikácia matematických metód na riešenie optimalizácie prepravy plynu

Partner(i): eustream, a.s. Nitra

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2000

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2016

Objem získaných prostriedkov v bežnom roku (€): 2700

Stručný opis výstupu/výsledku: Úloha je zameraná na problematiku výpočtov optimálneho nastavenia plynovodu pre tranzit plynu.

Zhodnotenie: Na základe požiadaviek dispečerského pracoviska v Nitre boli upravené výpočty optimálneho nastavenia tranzitnej sústavy pre prepravu plynu.

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 (€): 5521

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**

**9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | RO | Fikus – Biele miesta s Danielou Kapitáňovou. Hosť: prof. RNDr. Anatolij Dvurečenskij, DrSc | Radio Devin | 18.9.2016 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | D. Holič, Vyzerajú ľahko, nevedia ich vypočítať. Niektoré problémy nevedia matematici desaťročia vyriešiť, za iné sa dá získať odmena milión dolárov. http://tech.sme.sk/c/20172289/najvacsie-nevyriesen | SME | 15.5.2016 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Grant z programu Talenty Novej Európy získa 65 detí a mladých ľudí, Slovnaft, | https://slovnaft.sk/sk/o-nas/pre-media/tlacove-spravy/15718-grant-z-programu-talenty-novej-europy-ziska-65-deti-a-mladych-ludi | 19.4.2016 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | J. Šimkovič, Nádejným vedcom často chýba odvaha. | http://euractiv.sk/clanky/erc-granty-veda-vyskum/nadejnym-vedcom-casto-chyba-odvaha/ | 24.6.2016 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Príležitosť pre mladé talenty. Dostanú finančnú podporu. | https://slovnaft.sk/sk/o-nas/pre-media/tlacove-spravy/15718-grant-z-programu-talenty-novej-europy-ziska-65-deti-a-mladych-ludi | 19.4.2016 |
| doc. RNDr. Roman Frič, DrSc. |  | PB | Matematika - prostriedok na dorozumenie | Deň otvorených dverí na MÚ SAV v Košiciach | 10.11.2016 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Fyzik s basketbalovou loptou | Deň otvorených dverí MÚ SAV | 10.1.2016 |
| RNDr. Emília Halušková, CSc. |  | IN | Facebook ESS LM - informácie o aktivitách v rámci Týždňa vedy | https://www.facebook.com/zsmslm | 17.10.2016 |
| RNDr. Emília Halušková, CSc. |  | IN | Informácia o akcii pre košické deti: | http://vymenniky.sk/blog/vedecky-brloh-recyklovanie-s-matematickou-presnostou/ | 23.1.2016 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| RNDr. Emília Halušková, CSc. |  | IN | Informácie o aktivitách v rámci Týždňa vedy | https://esslm.sk/mobiova-paska/ | 14.11.2016 |
| RNDr. Emília Halušková, CSc. |  | PB | Keep everything, share anything | Evanjelická spojená škola, Liptovský Mikuláš | 8.11.2016 |
| RNDr. Emília Halušková, CSc. |  | PB | Kúsok matematiky v recyklovaní | Vedecký brloh, Výmenník Obrody | 23.1.2016 |
| RNDr. Emília Halušková, CSc. |  | PB | Matematické prekvapenie pre futbalistov | ZŠ Demänovská, Liptovský Mikuláš | 7.11.2016 |
| RNDr. Emília Halušková, CSc. | Dušana Štiberová, Peter Mlynárčik | iné | Mladí vedci plní energie | ZŠ Krosnianska 4, Košice | 11.11.2016 |
| RNDr. Emília Halušková, CSc. | Dušana Štiberová, Peter Mlynárčik | iné | Mladí vedci plní energie | ZŠ Park Angelinum, Košice | 6.12.2016 |
| doc. RNDr. Ľubica Holá, DrSc. | A. Dvurečenskij, K. Janková, B. Riečan | PU | Tibor Neubrunn | Univerzita Karlova, Praha | 2016 |
| Ing. Michal Hospodár | Peter Mlynárčik | PB | Zaujímavá informatika | Deň otvorených dverí na MÚ SAV v Košiciach | 10.11.2016 |
| Mgr. Marek Hyčko, PhD. |  | TV | Šťastie má rovnicu (vyjadrenie sa v príspevku) | TV Noviny, TV JOJ | 10.7.2016 |
| Mgr. Marek Hyčko, PhD. | nin | IN | Losovanie Eurojackpotu prebehne už tento piatok: Tipy, ako môžete vyhrať 90-miliónov! (vyjadrenie v článku) | https://www.cas.sk/clanok/460724/losovanie-eurojackpotu-prebehne-uz-tento-piatok-tipy-ako-mozete-vyhrat-90-milionov/ | 13.10.2016 |
| Mgr. Marek Hyčko, PhD. | nin | TL | Losovanie Eurojackpotu prebehne už tento piatok: Tipy, ako môžete vyhrať 90-miliónov! (vyjadrenie v článku) | Nový čas | 13.10.2016 |
| Mgr. Tibor Macko, PhD. | Jarmila Horáková | IN | Článok | http://ekonomika.sme.sk/c/20370267/mozgy-sa-zo-zahranicia-nehrnu-prisli-iba-styria.html | 31.10.2016 |
| Mgr. Tibor Macko, PhD. | Jarmila Horaková | TL | Slovenské mozgy sa späť nehrnú | SME, strana 2 | 19.11.2016 |
| Mgr. Peter Mlynárčik |  | PB | Prečo študovať informatiku? | Deň otvorených dverí na MÚ SAV v Košiciach | 10.11.2016 |
| Mgr. Peter Mlynárčik | RNDr. Emília Halušková, CSc., Mgr. Dušana Štiberová | iné | Mladí vedci plní energie | ZŠ Krosnianska 4, Košice | 11.11.2016 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| Mgr. Peter Mlynárčik | RNDr. Emília Halušková, CSc., Mgr. Dušana Štiberová | iné | Mladí vedci plní energie | ZŠ Park Angelinum, Košice | 6.12.2016 |
| Ing. Igor Mračka, PhD. |  | PB | Príbeh grafickej karty – cesta od počítačovej hry k vede | Deň otvorených dverí MÚ SAV | 10.11.2016 |
| doc. RNDr. Karol Nemoga, CSc. |  | TL | Kráľovná aj slúžka vied, rozhovor s K. Nemogom, riaditeľom Matematického ústavu SAV | Správy SAV, č. 5-6, 2016, p. 20-23. | 2016 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Prečo bola a je matematika dobrá? Potrebujú ju umelci, právnici  či lekári? | Vedecká cukráreň, CVTI, Bratislava | 22.3.2016 |
| doc. RNDr. Karol Nemoga, CSc. | prof. M. Bieliková (FIIT STU) a prof. J. Noga (PriF UK) | PB | Diskusia ku festivalu vedeckých filmov | Malá scéna SND, Bratislava | 19.9.2016 |
| doc. RNDr. Karol Nemoga, CSc. | Spracoval T. Verníček | IN | Veda na dosah, CVTI: Správne šifrovanie ochráni miliardy eur v bankách a tiež aj ľudské životy | http://vedanadosah.cvtisr.sk/spravne-sifrovanie-ochrani-miliardy-eur-v-bankach-a-tiez-aj-ludske-zivoty | 19.5.2016 |
| doc. RNDr. Karol Nemoga, CSc. | Spracovala M. Izakovičová | IN | Veda na dosah, CVTI: Matematiku potrebujú všetci | http://vedanadosah.cvtisr.sk/matematiku-potrebuju-vsetci | 23.3.2016 |
| doc. RNDr. Karol Nemoga, CSc. | T. Verníček | IN | Veda na dosah, CVTI: Rozhovor s docentom Karolom Nemogom o matematike | http://vedanadosah.cvtisr.sk/rozhovor-s-docentom-karolom-nemogom-o-matematike | 7.4.2016 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární | Deň otvorených dverí MÚ SAV | 10.11.2016 |
| Mgr. Martin Plávala |  | PB | Aké veľké je nekonečno a prečo to už storočie trápi fyzikov? | Deň otvorených dverí MÚ SAV | 10.11.2016 |
| Mgr. Martin Plávala |  | IN | Článok: Kvantové počítače pre všetkých | https://dennikn.sk/blog/kvantove-pocitace-pre-vsetkych/ | 6.7.2016 |
| Mgr. Martin Plávala |  | IN | Článok: Vedecké konferencie sú o káve a je to dobre | https://dennikn.sk/blog/vedecke-konferencie-su-o-kave-a-je-to-dobre/ | 12.10.2016 |
| Mgr. Martin Plávala |  | IN | Článok: Zapojte sa do výskumu kvantových počítačov už dnes | https://dennikn.sk/blog/zapojte-sa-do-vyskumu-kvantovych-pocitacov-uz-dnes/ | 11.8.2016 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| Mgr. Dušana Štiberová | RNDr. Emília Halušková, CSc., Mgr. Peter Mlynárčik | iné | Mladí vedci plní energie | Základná škola Krosnianska 4, Košice | 11.11.2016 |
| Mgr. Dušana Štiberová | RNDr. Emília Halušková, CSc., Mgr. Peter Mlynárčik | iné | Mladí vedci plní energie | Základná škola Park Angelinum, Košice | 6.12.2016 |
| Mgr. Peter Mlynárčik | Mgr. Dušana Štiberová | iné | Matematický krúžok | MÚ SAV, Grešáková 6, Košice, detašované pracovisko | 30 |
| Mgr. Dušana Štiberová | Mgr. Peter Mlynárčik | iné | Krúžok pre záujemcov o matematiku | MÚ SAV, Grešáková 6, Košice | 0 |

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

**9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV**

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ** | **Počet** | **Typ** | **Počet** | **Typ** | **Počet** |
| prednášky/besedy | 12 | tlač | 4 | TV | 1 |
| rozhlas | 1 | internet | 14 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 1 | dokumentárne filmy | 0 |
| iné | 8 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9c Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| 32nd Spring conference on Computer Graphics | medzinárodná | Smolenice | 27.04.-29.04.2016 | 30 |
| 16th Central European Conference on Cryptology (CECC) | medzinárodná | Piešťany | 22.06.-24.06.2016 | 40 |
| 30. medzinárodná letná konferencia z teórie reálnych funkcií | medzinárodná | Stará Lesná | 04.09.-09.09.2016 | 65 |
| Parallel Numerical Computing and Its Applications | medzinárodná | Smolenice | 07.09.-09.09.2016 | - |
| Workshop - Algebraic Graph Theory | Medzinárodná | Plzeň, ČR | 03.10.-07.10.2016 | 30 |
| Globálne existenciálne riziká 2016 | Medzinárodná | Bratislava | 15.11.-15.11.2016 | 35 |

**9.3. Účasť na výstavách**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Typ výboru** | **Programový** | **Organizačný** | **Programový i organizačný** |
| **Počet členstiev** | 0 | 1 | 0 |

**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)

Studies of the University in Žilina (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)

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)

Ondrej Šuch, PhD., M.Sc.

Acta Universitatis Matthiae Belii (funkcia: člen redakčnej rady)

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)

doc. RNDr. Roman Frič, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen )

Slovenská matematická spoločnosť (funkcia: člen)

Mgr. Tomáš Gregor

Jednota slovenských matematikov a fyzikov (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Galina Jirásková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Martin Kochol, PhD., DSc.

Humboldtov klub na Slovensku (funkcia: člen)

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Július Korbaš, CSc.

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

Mgr. Peter Mlynárčik

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)

**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** | | 26 635 |
| z toho | knihy a zviazané periodiká | 26 635 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| Mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | - |
| Počet titulov dochádzajúcich periodík | | 88 |
| z toho zahraničné periodiká | | 80 |
| Ročný prírastok knižničných jednotiek | | 23 |
| v tom | kúpou | 6 |
| darom | 3 |
| výmenou | 14 |
| bezodplatným prevodom | - |
| Úbytky knižničných jednotiek | | - |
| Knižničné jednotky spracované automatizovane | | - |

**10.2. Výpožičky a služby**

Tabuľka 10b Výpožičky a služby

|  |  |  |
| --- | --- | --- |
| **Výpožičky spolu** | | 89 |
| z toho | odborná literatúra pre dospelých | 77 |
| výpožičky periodík | 1 |
| prezenčné výpožičky | 11 |
| MVS iným knižniciam | | - |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | 1 |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | - |

**10.3. Používatelia**

Tabuľka 10c Používatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 59 |

**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 € | 1 036,19,- |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2016 bol zabezpečený voľný prístup do matematickej databázy ZentralBlatt MATH (FIZ Karlsruhe GmbH) ako súčasť práce Slovenskej jednotky redakcie, ktorú zebezpečuje 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)

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

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)

**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)

- Knižničná rada SAV (člen)

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

- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

**11.5. Členstvo v orgánoch VEGA**

doc. RNDr. Ján Borsík, CSc.

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

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, 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)

doc. RNDr. Sylvia Pulmannová, DrSc.

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

**12.1. Výdavky RO SAV**

Tabuľka 12a Výdavky RO SAV (v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **V ý d a v k y** | **Skutočnosť k 31.12.2016 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** | 1 014 495,51 | 949 666,94 | - | 64 828,57 | - |
| **Bežné výdavky** | 1 014 495,51 | 949 666,94 | - | 64 828,57 | - |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 575 574,60 | 559 746 | - | 15 828,60 | - |
| poistné a príspevok do poisťovní (620) | 204 381,53 | 198 434,31 | - | 5 947,22 | - |
| tovary a služby (630) | 185 519,39 | 142 466,64 | - | 43 052,75 | - |
| z toho: časopisy | 21 531 | 21 531 | - | - | - |
| VEGA projekty | 78 694 | 78 694 | - | - | - |
| MVTS projekty | - | - | - | - | - |
| CE | - | - | - | - | - |
| vedecká výchova | 3 080 | 3 080 | - | - | - |
| bežné transfery (640) | 49 019,99 | 49 019,99 | - | - | - |
| z toho: štipendiá | 48 260,50 | 48 260,50 | - | - | - |
| transfery partnerom projektov (VTS) | 6 470 | 6 470 | - | - | - |
| **Kapitálové výdavky** | - | - | - | - | - |
| **v tom:** |  |  |  |  |  |
| obstarávanie kapitálových aktív | - | - | - | - | - |
| kapitálové transfery | - | - | - | - | - |
| z toho: transfery partnerom projektov | - | - | - | - | - |

**12.2. Príjmy RO SAV**

Tabuľka 12b Príjmy RO SAV (v €)

|  |  |  |  |
| --- | --- | --- | --- |
| **P r í j m y** | **Skutočnosť k 31.12.2016 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 99 225,79 | 26 043,36 | 73 182,43 |
| **Nedaňové príjmy** | 4 047,55 | 4047,55 | - |
| **v tom:** |  |  |  |
| príjmy z prenájmu | - | - | - |
| príjmy z predaja výrobkov a služieb | 592,85 | 592,85 | - |
| iné | 3454,70 | 3454,70 | - |
| **Granty a transfery (mimo zdroja 111)** | 95 178,24 | 21 995,81 | 73 182,43 |
| **v tom:** |  |  |  |
| **tuzemské** | 50 334,50 | - | 50 334,50 |
| **z toho: APVV** | 25 367 | - | 25 367 |
| **iné** | - | - | - |
| zahraničné | 36 622,74 | 21 995,81 | 14 623,93 |
| z toho: projekty rámcového programu EÚ | 36 622,74 | 21 995,81 | 14 626,93 |
| iné | 8 221 | - | 8 221 |

**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 matematické komisie pre obhajobu DrSc. a Matematický ústav SAV má paritné zastúpenie v každej komisii.

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 Versita De Gruyter. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

V r. 2007 začal byť časopis Mathematica Slovaca indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Počet zaslaných príspevkov sa v roku 2009 viac ako dva aj pol znásobil vzhľadom k r. 2007, a činil 284 príspevkov oproti 211 v r. 2008, v r. 2010 bolo 334 príspevkov a v r. 2011 to bolo 509 príspevkov, v r. 2013 vyše 500 príspevkov, v r. 2014 vyše 540 príspevkov, v r. 2015 a 2016 vyše 500 príspevkov. Preto sme aj v r. 2012 museli výrazne zvýšiť počet editorov. Vyše 75 % prác je zamietnutých. V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2015)=0,366, jeho päťročný impakt faktor je 0,385 a nachádza sa v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR (Scimago Journal Ranking) rovný 0,485 a je v 2. kvartile.

Aj keď distribúcia časopisu prostredníctvom vydavateľstva Springer-Verlag spôsobila redukciu výmeny časopisu (vydavateľstvo Springer-Verlag bol výhradný distribútor v období 2008-2015), 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 eletronickej 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 66 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 0,212 a je v 4. kvartile. Ústav získava (predajom, resp. výmenou za tento časopis) časť svojich informačných zdrojov. Adresa je <http://tatra.mat.savba.sk>. Časopis je od roku 2009 distribuovaný aj spoločnosťou De Gruyter Open s WEB stránkou <http://www.degruyter.com/view/j/tmmp>.

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2014 vyšiel 9. 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. 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 2016**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**Vajteršic Marian**

Pamätný list

*Oceňovateľ: Ústav informatiky SAV*

*Opis: Pamätný list za zásluhy o rozvoj informatiky, informačných technológií a kybernetiky.*

**15.1.2. Iné domáce ocenenia**

**Nemoga Karol**

Plaketa FEI STU

*Oceňovateľ: FEI STU*

*Opis: Plaketa FEI STU udelená pri príležitosti 75. výročia založenia.*

**15.2. Medzinárodné ocenenia**

**Vajteršic Marian**

Dank und Anerkennung

*Oceňovateľ: Universität Salzburg*

*Opis: Ďakovný dekrét za dlhoročné pedagogické pôsobenie a za zásluhy o vedecký rozvoj.* **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 a UMB, 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 2016 došlo ku rastu celkových výdavkov Matematického ústavu SAV, ale iba o 0,2% oproti roku 2015. V rozpočtových výdavkoch došlo ku nárastu o 9,1 %. V oblasti miezd sme zaznamenali rast o 5,86%, ktorý bol daný valorizáciou, dobrým hodnotením ústavu pri prerozdelovaní 5 percent v rámci 1. oddelenia vied, získaním jednej štipendistky SASPRO a jedného pracovníka v rámci programu Návraty.

V tovaroch a službách bol pokles o ďalších 18 % spôsobený nižšími mimorozpočtovými zdrojmi, hlavne v projektoch APVV. V projektoch VEGA sme zaznamenali nárast o 11,08 %.

Rovnako ako v predošlom roku je treba spomenúť stabilizačnú dohodu SAV, ktorá zabezpečuje rozpočet SAV na roky 2015-2017 vo výške 60 mil. €. Znova, táto dohoda:

 Prináša určitý kľud a stabilitu, nie je nutné s napätím čakať, či nie je potrebné znižovať stav pracovníkov.

 Stagnácia rozpočtu spolu s infláciou, valorizáciou platov a rozvojovými programami (napríklad SASPRO) znamená reálny pokles rozpočtu pracoviska. Citeľné je to hlavne v oblasti tovarov a služieb.

Pozitívne hodnotíme pokračovanie projektov APVV. Oproti roku 2015 sme mali nižší počet projektov. Bežali iba tri projekty, v ktorých sme spoluriešitelia, oproti štyrom, kde sme boli hlavní riešitelia v roku 2015. Nie sme spokojní s hodnotením projektov APVV, keď sme boli svedkami nekorektných posudkov. Dôležité je:

 Zabezpečiť stabilné a zvyšujúce sa financovanie projektov APVV.

 Zlepšiť hodnotenie projektov.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám vďaka projektu NISPEZ CVTI (Centrum vedecko-technických informácií) a činnosti Ústrednej knižnice SAV počas celého roku 2016. Od nového 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 peňazí 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 2016 zrušili.

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

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

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

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

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

**Prílohy**   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2016**

**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) | 100 | 1.00 |
| 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) | 25 | 0.25 |
| 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 | 0.02 |
| 11. | [RNDr. Imrich Vrťo, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5729) | 100 | 1.00 |
| 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 | 0.92 |
| **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. Vladimír Dančík, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6710) | 100 | 0.00 |
| 3. | [Mgr. Nataliya Dilna, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7075) | 100 | 0.00 |
| 4. | [RNDr. Peter Eliaš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5682) | 100 | 1.00 |
| 5. | [Mgr. Štefan Gyürki, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10596) | 5 | 0.02 |
| 6. | [doc. RNDr. Rudolf Hajossy, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6702) | 32 | 0.32 |
| 7. | [RNDr. Emília Halušková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5688) | 100 | 0.73 |
| 8. | [Mgr. Marek Hyčko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) | 100 | 1.00 |
| 9. | [doc. RNDr. Ferdinand Chovanec, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6700) | 3 | 0.03 |
| 10. | [doc. RNDr. Mária Jurečková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6699) | 3 | 0.03 |
| 11. | [Mgr. Sándor Kelemen, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7219) | 40 | 0.13 |
| 12. | [Mgr. Tibor Macko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5697) | 100 | 0.36 |
| 13. | [Dr. Giselle Monteiro](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10597) | 100 | 0.75 |
| 14. | [Ing. Igor Mračka, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7987) | 100 | 0.33 |
| 15. | [Mgr. Branislav Novotný, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5700) | 100 | 1.00 |
| 16. | [Mgr. Martin Papčo, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8050) | 5 | 0.03 |
| 17. | [RNDr. Jozef Pócs, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5704) | 100 | 0.54 |
| 18. | [RNDr. Michal Pospíšil, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6622) | 20 | 0.20 |
| 19. | [Mgr. Ladislav Stacho, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5714) | 100 | 0.00 |
| 20. | [Ondrej Šuch, PhD., M.Sc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5716) | 25 | 0.25 |
| 21. | [Ing. Ľubomír Török, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5722) | 20 | 0.53 |
| 22. | [Mgr. Elena Vinceková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5727) | 100 | 1.00 |
| 23. | [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 | 1.00 |
| 2. | [RNDr. Laura Husárová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5809) | 40 | 0.75 |
| 3. | [Mgr. Ján Karabáš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5693) | 11 | 0.14 |
| 4. | [Mgr. Ivana Krajňáková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10594) | 4 | 0.01 |
| 5. | [Mgr. Katarína Pastorková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10167) | 60 | 0.15 |
| 6. | [Ing.arch. Terézia Sedláková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6653) | 59 | 0.83 |
| 7. | [Mgr. Dušana Štiberová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10595) | 4 | 0.01 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Marián Bugala](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7633) | 60 | 0.73 |
| 2. | [Jana Galbová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10283) | 60 | 0.45 |
| **Odborní pracovníci ÚSV** | | | |
| 3. | [Silvia Gavorová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5684) | 80 | 0.92 |
| 4. | [Ivana Geriaková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2423) | 100 | 1.00 |
| 5. | [Pavel Grebeči](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6703) | 100 | 0.71 |
| 6. | [Ivana Hudecová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7230) | 60 | 0.45 |
| 7. | [Judita Klimentová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6697) | 13 | 0.13 |
| 8. | [Mária Malaščuková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2388) | 72 | 0.84 |
| 9. | [Martin Mišovič](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10598) | 11 | 0.08 |
| 10. | [Katarína Nagyová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6694) | 60 | 0.44 |
| 11. | [Eugénia Ondrušková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2374) | 100 | 1.00 |
| 12. | [Bc. Henrieta Paľová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6720) | 24 | 0.24 |
| 13. | [Andrea Surová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6688) | 100 | 1.00 |
| 14. | [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. | [Alena Lisá](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10168) | 100 | 0.25 |
| 3. | [Lucia Mišíková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6716) | 36 | 0.12 |
| 4. | [Blažena Puterová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7255) | 45 | 0.45 |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [doc. Mgr. Marián Grendár, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5686) | 17.2.2016 | 0.20 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [Mgr. Kristína Čevorová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8874) | 31.8.2016 | 0.01 |
| 2. | [Mgr. Anton Sedliak](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6652) | 31.8.2016 | 0.67 |
| 3. | [Mgr. Miriam Semjanová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9749) | 10.9.2016 | 0.01 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Dušan Ďuriš](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6704) | 30.9.2016 | 0.11 |

**Zoznam doktorandov**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Ing. Michal Hospodár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Mgr. Ivana Krajňáková | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 3. | Mgr. Peter Mlynárčik | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Mgr. Matúš Palmovský | 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 emeritných vedeckých zamestnancov**

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

***Príloha B***

**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Programy: Medziakademická dohoda (MAD)**

**1.) Vector valued measures and integration in polarized vector spaces** *(Vector valued measures and integration in polarized vector spaces)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Haluška |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Ukrajina: 1 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
1. HALUŠKA, Ján. On fields inspired with the polar HSV-RGB theory of Colour. In book: Modern Real Analysis / Jacek Hejduk, Stanislaw Kowalczyk, Ryszard J. Pawlak and Malgorzata Turowska (eds.), Lodz University Press, Lodz 2015, pp. 69-88, ISBN: 978-83-7969-663-5.   
   
   
**Projekty národných agentúr**

**Programy: VEGA**

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

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Borsík |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0050/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 1692 € |

*Dosiahnuté výsledky:*   
   
Boli vyšetrované kvázispojité funkcie s množinou bodov nespojitosti miery nula.   
   
1. BORSÍK, Ján. Quasicontinuous functions with small set of discontinuity points. In Book: Modern Real Analysis / Jacek Hejduk, Stanislaw Kowalczyk, Ryszard J. Pawlak and Malgorzata Turowska (eds.), Lodz University Press, Lodz, 2015, p. 11-26, ISBN 978-83-7969-663-5.

**2.) Výpočty s neúplnou informáciou - algoritmy, modely, siete** *(Computations with Incomplete Information - Algorithms, Models, Networks)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stefan Dobrev |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0165/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA: 5286 € |

*Dosiahnuté výsledky:*   
   
Boli dosiahnuté rôznorodé výsledky pre hlavné výskumné oblasti grantu:   
a) výpočty s neúplnou informáciou (poradná zložitosť): 7, 8, 9   
b) mobilní agenti na grafoch a spojitých kruhoch: 2, 3, 5, 6   
c) ad-hoc siete: 1   
d) crossing numbers: 4   
   
1. Stefan Dobrev, Mohsen Eftekhari Hesari, Fraser MacQuarie, Ján Manuch, Oscar Morales Ponce, Lata Narayanan, Jaroslav Opatrny, Ladislav Stacho:   
Connectivity with directional antennas in the symmetric communication model. Comput. Geom. 55: 1-25 (2016).   
   
2. Jurek Czyzowicz, Stefan Dobrev, Evangelos Kranakis, Eduardo Pacheco:   
Survivability of bouncing robots. Discrete Math., Alg. and Appl. 8(3): 1-17 (2016).   
   
3. Balasingham Balamohan, Stefan Dobrev, Paola Flocchini, Nicola Santoro:   
Exploring an unknown dangerous graph with a constant number of tokens. Theor. Comput. Sci. 610: 169-181 (2016).   
   
4. Luerbio Faria, Celina M. Herrera de Figueiredo, R. Bruce Richter, Imrich Vrt'o: The Same Upper Bound for Both: The 2-page and the Rectilinear Crossing Numbers of the n-Cube. Journal of Graph Theory 83(1): 19-33 (2016).   
   
5. Jurek Czyzowicz, Stefan Dobrev, Konstantinos Georgiou, Evangelos Kranakis, Fraser MacQuarrie: Evacuating two robots from multiple unknown exits in a circle. ICDCN 2016: 28:1-28:8.   
   
6. Giuseppe Antonio Di Luna, Stefan Dobrev, Paola Flocchini, Nicola Santoro: Live Exploration of Dynamic Rings. ICDCS 2016: 570-579.   
   
7. Stefan Dobrev, Juraj Hromkovič, Dennis Komm, Richard Královič, Rastislav Královič, Tobias Mömke: The Complexity of Paging Against a Probabilistic Adversary. SOFSEM 2016: 265-276.   
   
8. Michal Kotrbčík, Rastislav Královič, Sebastian Ordyniak:   
Edge-Editing to a Dense and a Sparse Graph Class. LATIN 2016: 562-575.   
   
9. Dennis Komm, Rastislav Královič, Richard Královič, Christian Kudahl:   
Advice Complexity of the Online Induced Subgraph Problem. MFCS 2016: 59:1-59:13.   
**3.) Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov** *(Qualitative properties and bifurcations of differential equations and dynamical systems)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0153/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 10149 € |

*Dosiahnuté výsledky:*   
   
1. AGAOGLOU, M. - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, V. M. - SUSANTO, H. Travelling waves in nonlinear magneto-inductive lattices. In Journal of differential equations, 2016, vol. 260, no. 2, p. 1717-1746. (1.821 - IF2015). (2016 - Current Contents). ISSN 0022-0396.   
   
2. BATTELLI, Flaviano - FEČKAN, Michal. Blue sky-like catastrophe for reversible nonlinear implicit odes. In Discrete and Continuous Dynamical Systems - Series S, 2016, vol. 9, no. 4, p. 895-922. (0.737 - IF2015). (2016 - Current Contents). ISSN 1937-1632.   
   
3. DANCA, Marius-F. - FEČKAN, Michal. Note on a parameter switching method for nonlinear odes. In Mathematica Slovaca, 2016, vol. 66, no. 2, p. 439-448. (0.366 - IF2015). ISSN 0139-9918.   
   
4. DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay - CHEN, Guanrong. Looking more closely at the Rabinovich-Fabrikant system. In International Journal of Bifurcation and Chaos, 2016, vol. 26, no. 2, [p. 1-21]. (1.355 - IF2015). (2016 - Current Contents). ISSN 0218-1274.   
   
5. FEČKAN, Michal - POSPÍŠIL, Michal. Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems. Amsterdam : Elsevier, 2016. 244 p. ISBN 978-0-12-804294-6.   
   
6. FEČKAN, Michal - RONTÓ, András - DILNA, Nataliya. On a kind of symmetric weakly non-linear ordinary differential systems. In Bulletin des sciences mathématiques, 2016, vol. 140, no. 2, p. 188-230. (0.664 - IF2015). (2016 - Current Contents). ISSN 0007-4497.   
   
7. FEČKAN, Michal - MACHŮ, Hana. Discrete Dirichlet boundary value problems with upper semicontinuous right-hand sides. In Journal of Difference Equations and Applications, 2016, vol. 22, no. 7, p.959-972. (0.761 - IF2015). (2016 - Current Contents). ISSN 1023-6198.   
   
8. KORBAŠ, Július - RUSIN, Tomáš. On the cohomology of oriented Grassmann manifolds. In Homology, Homotopy and Applications, 2016, vol. 18, no. 2, p. 71-84. (0.486 - IF2015). (2016 - Current Contents). ISSN 1532-0073.   
   
9. KORBAŠ, Július - RUSIN, Tomáš. A note on the Z2-cohomology algebra of oriented Grassmann manifolds. In Rendiconti del Circolo Mathematico di Palermo Series 2, 2016, vol. 65, p. 507-517. (2016 - Scopus). ISSN 0009-725X.   
   
10. MEDVEĎ, Milan - POSPÍŠIL, Michal. Representation of solutions of systems of linear differential equations with multiple delays and linear parts given by nonpermutable matrices. In Nonlinear Oscillations, 2016, vol. 19, no. 4, p. 521-532. ISSN 1562-3076.   
11. POSPÍŠIL, Michal - JAROŠ, František. On the representation of solutions of delayed differential equations via Laplace transform. In Electronic Journal of Qualitative Theory of Differential Equations, 2016, no. 117, p. 1-13. (0.732 - IF2015). (2016 - Current Contents). ISSN 1417-3875.   
   
12. SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In Tatra Mt. Math. Publ. 66, 2016, p. 103-120. ISSN 1210-3195.   
   
13. WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Random noninstantaneous impulsive models for studying periodic evolution processes in pharmacotherapy. In Mathematical Modeling and Applications in Nonlinear Dynamics. - Springer, 2016, p. 87-107. ISBN 978-3-319-26628-2.   
   
14. WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Differential inclusions of arbitrary fractional order with anti-periodic conditions in Banach spaces. In Electronic Journal of Qualitative Theory of Differential Equations, 2016, no. 34, p.1-22. (0.732 - IF2015). (2016 - Current Contents). ISSN 1417-3875.   
   
15. WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. A survey on impulsive fractional differential equations. In Fractional Calculus and Applied Analysis, 2016, vol. 19, no. 4, p. 806-831. (2.246 - IF2015). (2016 - Current Contents). ISSN 1311-0454.   
   
**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: 1850 € |

*Dosiahnuté výsledky:*   
   
1. FRIČ, Roman - PAPČO, Martin. Upgrading probability via fractions of events. In Communications in Mathematics, 2016, vol. 24, no. 1, p. 29-41. ISSN 1804-1388.

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

|  |  |
| --- | --- |
| **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: 3806 € |

*Dosiahnuté výsledky:*   
1.Skonštruovali sme polopole hyperbolických komutatívnych kvaterniónov a definovali sme čiastočné usporiadanie, ktoré zachováva všetky operácie v tomto polopoli.   
   
2. Zaoberali sme sa trojpolárnymi komplexnými číslami definovanými nad polopoľom nezáporných reálnych čísel z pohľadu analýzy. Zaviedli sme pojem derivácie a krivkového integrálu v trojpolárnej komplexnej rovine. Našli sme podmienku diferencovateľnosti analogickú Cauchyho-Riemannovej podmienke v klasických komplexných číslach.   
   
Publikácie:   
   
1. SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In Tatra Mt. Math. Publ. 66, 2016, p. 103-120. ISSN 1210-3195.   
   
   
**6.) Topológie na funkcionálnych priestoroch a hyperpriestoroch** *(Topologies on Functional Spaces and Hyperspaces)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | VEGA 2/0006/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA: 4229 € |

*Dosiahnuté výsledky:*   
   
Nech X je lokálne kompaktný priestor a (Y,d) je metrický priestor. Podsystém E priestoru kvázispojitých subspojitých funkcií z X do Y je kompaktný v tomto priestore vybavenom topológiou rovnomernej konvergencie na kompaktoch vtedy a len vtedy, ked E je uzavretá množina, kompaktne ohraničená a husto equikvázispojitá. Tento výsledok je nová verzia Ascoliho vety pre kvázispojité subspojité funkcie.   
   
Publikácie:   
   
1. Ľ. Holá, A. K. Mirmostafaee, Z. Piotrowski, Points of openness and closedness of some mappings, Banach J. Math. Anal. 9 (2015), 243-252.   
   
2. Ľ. Holá, L. Zsilinszky, Generalized metric properties of the Fell topology, Annali di Matematica pura ed Applicata 194 (2015), 1259-1267.   
   
3. Ľ. Holá, D. Holý, Minimal usco and minimal cusco maps and compactness, J. Math. Anal. Appl. 439 (2016), 737-744.   
   
4. Ľ. Holá, D. Holý, Quasicontinuous subcontinuous functions and compactness, Mediterranean J. Math. 13 (2016), 4509-4518.   
   
5. Ľ. Holá, D. Holý, Minimal usco and minimal cusco maps, Khayyam J. Math. 1 (2015), 125-150.   
   
**7.) Algebraická a pravdepodobnostná teória čísela ich aplikácie** *(Algebraic and probabilistic number theory and their applications)*

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| **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: 10601 € |

*Dosiahnuté výsledky:*   
   
ABA:   
   
1. STRAUCH, Oto. Some applications of distribution functions of sequences. In Uniform Distribution Theory, 2015, vol. 10, no. 2, p. 117-183. ISSN 1336-913X.   
   
ADEB:   
   
1. BALÁŽ, Vladimír - IACO, Maria Rita - STRAUCH, Oto - THONHAUSER, Stefan - TICHY, Robert F. An extremal problem in uniform distribution theory. In Uniform Distribution Theory, 2016, vol. 11, no. 2, p. 1-21. ISSN 1336-913X.   
   
2. OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers. In Uniform Distribution Theory, 2016, vol.11, no. 1, p. 23-45. ISSN 1336-913X.   
   
ADNB:   
   
1. BALÁŽ, Vladimír - FIALOVÁ, Jana - HOFER, M. - IACO, M.R. - STRAUCH, Oto. The asymptotic distribution function of the 4-dimensional shifted van der Corput sequence. In Tatra Mountains Mathematical Publications, 2015, vol. 64, p. 75-92. (2015 - SCOPUS). ISSN 1210-3195.   
   
2. STRAUCH, Oto. Distribution functions of ratio sequences. An expository paper. In Tatra Mountains Mathematical Publications, 2015, vol. 64, p. 133-185. (2015 - SCOPUS). ISSN 1210-3195.   
   
   
**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: 12715 € |

*Dosiahnuté výsledky:*   
   
1. DVUREČENSKIJ, Anatolij. Olson order of quantum observables. In International Journal of Theoretical Physics, 2016, vol. 55, no. 11, p. 4896-4912. (1.041 - IF2015). (2016 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-016-3113-9?view=classic>.   
   
2. JENČOVÁ, Anna. Comparison of quantum channels and statistical experiments. In ISIT 2016 : 2016 IEEE International Symposium on Information Theory : proceedings. - Danvers : IEEE, 2016, p. 2249-2253. ISBN 978-1-5090-1806-2. ISSN 2157-8117.   
   
3. PLÁVALA, Martin. All measurements in a probabilistic theory are compatible if and only if the state space is a simplex. In Physical Review A, 2016, vol. 94, no. 4, 042108. (2.765 - IF2015). (2016 - Current Contents). ISSN 1050-2947. Dostupné na internete: <http://journals.aps.org/pra/pdf/10.1103/PhysRevA.94.042108>.   
   
4. PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Compatibility of observables on effect algebras. In Soft Computing, 2016, vol. 20, no. 10, p. 3957-3967. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1984-y?view=classic>.   
   
Preprinty:   
   
1. FOULIS, D.J. - JENČOVÁ, Anna - PULMANNOVÁ. States and synaptic algebras, arXiv:1606.08229, to appear in Rep. Math. Phys, 2016.   
   
2. FOULIS, D.J. - JENČOVÁ, Anna - PULMANNOVÁ, Silvia. Every synaptic algebra has the monotone square root property, arXiv:1605.04115, to appear in Positivity, 2016.   
   
3. JENČOVÁ, Anna. Preservation of a quantum Renyi relative entropy implies existence of a recovery map, arXiv:1604.02831, to appear in J. Phys. A.   
   
4. JENČOVÁ, Anna - PLÁVALA, Martin. Conditions for optimal input states for discrimination of quantum channels, arXiv:1603.01437, to appear in J. Math. Phys, 2016.   
   
**9.) Popisná zložitosť formálnych systémov** *(Descriptional Complexity of Formal Systems)*

|  |  |
| --- | --- |
| **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: 8458 € |

*Dosiahnuté výsledky:*   
   
ADCA:   
   
1. EOM, Hae-Sung - HAN, Yo-Sub - JIRÁSKOVÁ, Galina. State complexity of basic operations on non-returning regular languages. In Fundamenta Informaticae, 2016, vol. 144, no. 2, p. 161-182. (0.658 - IF2015). (2016 - Current Contents). ISSN 0169-2968.   
   
2. JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - KRAUSOVÁ, Monika - MLYNÁRČIK, Peter - ŠEBEJ, Juraj. Prefix-free languages: Left and right quotient and reversal. In Theoretical Computer Science, 2016, vol. 610, p. 78-90. (0.643 - IF2015). (2016 - Current Contents). ISSN 0304-3975.   
   
AFC:   
   
1. BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LIU, Bo - RAJASEKARAN, Aayush - SZYKUŁA, Marek. On the state complexity of the shuffle of regular languages. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 73-86. ISBN 978-3-319-41113-2. ISSN 0302-9743.   
   
2. ČEVOROVÁ, Kristína. Square on ideal, closed and free languages. In Descriptional Complexity of Formal Systems : LNCS 9118, proceedings. Eds. Jeffrey Shallit, Alexander Okhotin. - Springer International Publishing, 2015, p. 70-80. ISBN 978-3-319-19224-6. ISSN 0302-9743.   
   
3. EOM, Hae-Sung - PALMOVSKÝ, Matúš. Combined operations on prefix-free and suffix-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 147-162. ISBN 978-3-903035-10-2.   
   
4. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity of operations on closed and ideal languages. In Implementation and Application of Automata : proceedings, LNCS 9705. Eds. Yo-Sub Han, Kai Salomaa. - Springer International Publishing, 2016, p. 125-137. ISBN 978-3-319-40945-0. ISSN 0302-9743.   
   
5. HOSPODÁR, Michal. Complexity on unary union-free and unary star-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016) : short papers. H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Institut für Computersprachen, 2016, p. 15-23. ISBN 978-3-200-04725-9.   
   
6. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. Concatenation on deterministic and alternating automata. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 179-194. ISBN 978-3-903035-10-2.   
   
7. JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - ŠEBEJ, Juraj. Operations on unambiguous finite automata. In Developments in Language Theory : proceedings, LNCS 9840. Srečko Brlek, Christophe Reutenauer (eds.). - Berlin : Springer, 2016, p. 243-255. ISBN 978-3-662-53131-0. ISSN 0302-9743.   
   
8. JIRÁSKOVÁ, Galina. Self-verifying finite automata and descriptional complexity. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 29-44. ISBN 978-3-319-41113-2. ISSN 0302-9743.   
9. JIRÁSKOVÁ, Galina - SZABARI, Alexander - ŠEBEJ, Juraj. The complexity of languages resulting from the concatenation operation. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 153-167. ISBN 978-3-319-41113-2. ISSN 0302-9743.   
   
10. PALMOVSKÝ, Matúš - ŠEBEJ, Juraj. Star-complement-star on prefix-free languages. In Descriptional Complexity of Formal Systems : LNCS 9118, proceedings. Eds. Jeffrey Shallit, Alexander Okhotin. - Springer International Publishing, 2015, p. 231-242. ISBN 978-3-319-19224-6. ISSN 0302-9743.   
   
**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: 1692 € |

*Dosiahnuté výsledky:*   
   
1. KOCHOL, M.: Polynomial algorithms for canonical forms of orientations, Journal of Combinatorial Optimization, 31 (2016) 218–222. ISSN: 1382-6905.   
   
**12.) Paralelné blokové algoritmy pre kanonické dekompozície tenzorov** *(Parallel block algorithms for the canonical decomposition of tensors)*

|  |  |
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| **Zodpovedný riešiteľ:** | Gabriel Okša |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** | VEGA 2/0026/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 6766 € |

*Dosiahnuté výsledky:*   
   
AFC:   
   
1. BEČKA, Martin - OKŠA, Gabriel. New approach to local computations in the parallel one-sided Jacobi SVD algorithm. In Parallel Processing and Applied Mathematics : LNCS 9573. Eds R. Wyrzykowski et al. - Springer International Publishing, 2016, p. 605-617. ISBN 978-3-319-32148-6. ISSN 0302-9743.   
   
2. KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Performance of the parallel one-sided block Jacobi SVD algorithm on a modern distributed-memory parallel computer. In Parallel Processing and Applied Mathematics : LNCS 9573. Eds R. Wyrzykowski et al. - Springer International Publishing, 2016, p. 594-604. ISBN 978-3-319-32148-6. ISSN 0302-9743.   
   
   
**13.) Vybrané problémy univerzálnej algebry a teórie zväzov** *(Selected Problems in Universal Algebra and Lattice Theory)*

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| **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: 3806 € |

*Dosiahnuté výsledky:*   
   
1. Dokázali sme, že kritický bod medzi dvomi lokálne konečnými, kongruenčne distributívnymi varietami algebier s vlastnosťou kompaktného prieniku je maximálne alef\_1.   
   
2. Študovali sme kompatibilné agregačné funkcie na ohraničených distributívnych zväzoch. Pre tieto typy funkcií sa podarilo zjednodušiť známy výsledok G. Grätzera, týkajúci sa charakterizácie kompatibilných funkcií.   
   
3. Študovali sme triedy algebier, ktoré sú uzavreté na direktné limity. Niektoré z týchto tried nie je možné popísať pomocou formúl prvého rádu. Inšpirovaní výsledkami H. J. Keislera pre logiku prvého rádu, sme získali infinitárnu formulu, ktorej modelom je trieda algebier uzavretá na direktné limity.

**14.) 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: 3829 € |

*Dosiahnuté výsledky:*   
   
Spresnenie odhadu Brendla, Khomskeho a Wohofského pre kofinalitu Laverovho ideálu a výsledok doplňujúci vetu Balcara-Vojtáša o dizjunktných zjemneniach v Booleovych algebrách.   
   
1. M. Repický, Cofinality of the Laver ideal, Archive for Mathematical Logic, 55 (2016), issue 7-8, 1025–1036. DOI 10.1007/s00153-016-0510-y.   
   
**15.) Diskrétne a spojité pravdepodobnostné modely a ich aplikácie** *(Discrete and continuous probabilistic models and their applications)*

|  |  |
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| **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: 1701 € |

*Dosiahnuté výsledky:*   
   
1. Wimmer, G., Mačutek, J., Altmann, G., Discrete Averaged Mixing Applied to Logarithmic Distributions, Mathematica Slovaca 66 (2) (2016), 483-492.   
   
2. Wimmer, G., Mačutek, J., Lexical Text Compactness with Link Length Taken into Account, In: Issues in Quantitative Linguistics 4, Kelich, E., Knight, R., Mačutek J., Wilson A. (editors), ISBN: 978-3-942303-44-6 (2016), RAM-Verlag, 217-227.   
   
**16.) 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: 2114 € |

*Dosiahnuté výsledky:*   
   
1. ZEMÁNKOVÁ-MESIAROVÁ, Andrea. Continuous additive generators of continuous, conditionally cancellative triangular subnorms. In: Information Sciences 339 (2016) 53-63, ISSN: 0020-0255.   
   
**Programy: APVV**

**17.) 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: 8953 € |

*Dosiahnuté výsledky:*   
   
AFC:   
   
1. EOM, Hae-Sung - PALMOVSKÝ, Matúš. Combined operations on prefix-free and suffix-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 147-162. ISBN 978-3-903035-10-2.   
   
2. HOSPODÁR, Michal. Complexity on unary union-free and unary star-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016) : short papers. H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Institut für Computersprachen, 2016, p. 15-23. ISBN 978-3-200-04725-9.   
   
3. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. Concatenation on deterministic and alternating automata. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 179-194. ISBN 978-3-903035-10-2.   
   
4. JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - ŠEBEJ, Juraj. Operations on unambiguous finite automata. In Developments in Language Theory : proceedings, LNCS 9840. Srečko Brlek, Christophe Reutenauer (eds.). - Berlin : Springer, 2016, p. 243-255. ISBN 978-3-662-53131-0. ISSN 0302-9743.

**18.) 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: 5000 € |

*Dosiahnuté výsledky:*   
1. CONDER, Marston - DU, Shaofei - NEDELA, Roman - ŠKOVIERA, Martin. Regular maps with nilpotent automorphism group. In Journal of Algebraic Combinatorics, 2016, vol.44, no. 4, p. 863-874. (0.874 - IF2015). (2016 - Current Contents). ISSN 0925-9899.   
   
2. GYÜRKI, Štefan. Infinite families of directed strongly regular graphs using equitable partitions. In Discrete Mathematics, 2016, vol. 339, no. 12, p. 2970-2986. (0.479 - IF2015). (2016 - WOS) ISSN 0012-365X.   
   
**19.) 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: 7664 € |

*Dosiahnuté výsledky:*   
1. KLIMO, Martin - TARÁBEK, Peter - ŠUCH, Ondrej - SMIEŠKO, Juraj - ŠKVAREK, Ondrej. Implementation of a deep ReLU neuron network with a memristive circuit. In International Journal on Unconventional Computing, 2016, vol. 12, no. 4, p. 319-337. (0.739 - IF2015). (2016 - Current Contents). ISSN 1548-7199.   
   
2. NIELEN, L. - OHM, S. - ŠUCH, Ondrej - KLIMO, Martin - WASER, R. - LINN, Eike. Memristive sorting networks enabled by electrochemical metallization cells. In International Journal on Unconventional Computing, 2016, vol. 12, no. 4, p. 303-317. (0.739 - IF2015). (2016 - Current Contents). ISSN 1548-7199.   
   
3. ŠUCH, Ondrej - BARREDA, Santiago. Bayes covariant multi-class classification. In Pattern Recognition Letters, 2016, vol. 84, p. 99-106. (1.586 - IF2015). (2016 - Current Contents). ISSN 0167-8655.   
   
   
**20.) 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: 3750 € |

*Dosiahnuté výsledky:*   
    
1. Wimmer, G., Mačutek, J., Altmann, G., Discrete Averaged Mixing Applied to Logarithmic Distributions, Mathematica Slovaca 66 (2) (2016), 483-492.   
   
2. Wimmer, G., Mačutek, J., Lexical Text Compactness with Link Length Taken into Account, In: Issues in Quantitative Linguistics 4, Kelich, E., Knight, R., Mačutek J., Wilson A. (editors), ISBN: 978-3-942303-44-6 (2016), RAM-Verlag, 217-227.   
   
**Programy: Vnútroústavné**

**21.) 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:*   
   
1. SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In Tatra Mt. Math. Publ. 66, 2016, p. 103-120. ISSN 1210-3195.   
   
**Programy: Iné projekty**

**22.) 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:*   
   
1. ZEMÁNKOVÁ-MESIAROVÁ, Andrea. Continuous additive generators of continuous, conditionally cancellative triangular subnorms. In: Information Sciences 339 (2016) 53-63, ISSN: 0020-0255.   
   
**Programy: SASPRO**

**23.) 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:** | SAV (SASPRO): 36623 € |

*Dosiahnuté výsledky:*   
1. V súvislosti s prípravou monografie "Kurzweil-Stieltjes Integral (Theory and Applications)", sa našiel jednoduchší dôkaz pre integrovanie per partes a boli skúmané ďalšie výsledky o konvergenciách.   
   
2. Študovala sa tiež problematika Dobrakovovho integrálu.   
   
**Programy: Návrat domov**

**24.) 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: 34670 € |

*Dosiahnuté výsledky:*   
   
Pokračovalo sa v štúdiu kvadratických reťazcových komplexov nad diskovými komplexami, boli získané súčinové formuly;   
   
Študovala sa Spivakova normálová fibrácia nad Poincarého komplexami, ktoré nie sú jednoducho-súvislé   
   
Preprinty:   
   
1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, https://arxiv.org/abs/1611.04114.   
   
 ***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| AAA01 | FEČKAN, Michal - POSPÍŠIL, Michal. Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems. Amsterdam : Elsevier, 2016. 244 p. ISBN 978-0-12-804294-6. |

**ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách**

|  |  |
| --- | --- |
| ABA01 | STRAUCH, Oto. Some applications of distribution functions of sequences. In Uniform Distribution Theory, 2015, vol. 10, no. 2, p. 117-183. ISSN 1336-913X. Dostupné na internete: <https://math.boku.ac.at/udt/vol10/no2/08Strauch.pdf>. |

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

|  |  |
| --- | --- |
| ABC01 | BORSÍK, Ján. Quasicontinuous functions with small set of discontinuity points. In Modern Real Analysis. - Lódz : Lodz University Press, 2015, p. 11-26. ISBN 978-83-7969-663-5. |
| ABC02 | HALUŠKA, Ján. On fields inspired with the polar HSV - RGB theory of Colour. In Modern Real Analysis. - Lódz : Lodz University Press, 2015, p. 69-88. ISBN 978-83-7969-663-5. |
| ABC03 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Random noninstantaneous impulsive models for studying periodic evolution processes in pharmacotherapy. In Mathematical Modeling and Applications in Nonlinear Dynamics. - Springer, 2016, p. 87-107. ISBN 978-3-319-26628-2. |

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

|  |  |
| --- | --- |
| ADCA01 | AGAOGLOU, M. - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, V. M. - SUSANTO, H. Travelling waves in nonlinear magneto-inductive lattices. In Journal of differential equations, 2016, vol. 260, no. 2, p. 1717-1746. (1.821 - IF2015). (2016 - Current Contents). ISSN 0022-0396. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0022039615005112>. |
| ADCA02 | BALAMOHAN, Balasingham - DOBREV, Stefan - FLOCCHINI, Paola - SANTORO, Nicola. Exploring an unknown dangerous graph with a constant number of tokens. In Theoretical Computer Science, 2016, vol. 610, p. 169-181. (0.643 - IF2015). (2016 - Current Contents). ISSN 0304-3975. |
| ADCA03 | BATTELLI, Flaviano - FEČKAN, Michal. Blue sky-like catastrophe for reversible nonlinear implicit odes. In Discrete and Continuous Dynamical Systems - Series S, 2016, vol. 9, no. 4, p. 895-922. (0.737 - IF2015). (2016 - Current Contents). ISSN 1937-1632. |
| ADCA04 | BOTUR, M. - DVUREČENSKIJ, Anatolij. Kite n-perfect pseudo effect algebras. In Reports on Mathematical Physics, 2015, vol. 76, no. 3, p. 291-315. (0.871 - IF2014). (2015 - Current Contents). ISSN 0034-4877. |
| ADCA05 | BOTUR, M. - DVUREČENSKIJ, Anatolij. On pseudo-BL-algebras and pseudo-hoops with normal maximal filters. In Soft Computing, 2016, vol. 20, no.2, p. 439-448. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1793-3>. |
| ADCA06 | CONDER, Marston - DU, Shaofei - NEDELA, Roman - ŠKOVIERA, Martin. Regular maps with nilpotent automorphism group. In Journal of Algebraic Combinatorics, 2016, vol.44, no. 4, p. 863-874. (0.874 - IF2015). (2016 - Current Contents). ISSN 0925-9899. Dostupné na internete: <http://link.springer.com/article/10.1007/s10801-016-0692-8>. |
| ADCA07 | DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay - CHEN, Guanrong. Looking more closely at the Rabinovich-Fabrikant system. In International Journal of Bifurcation and Chaos, 2016, vol. 26, no. 2, [p. 1-21]. (1.355 - IF2015). (2016 - Current Contents). ISSN 0218-1274. |
| ADCA08 | DOBREV, Stefan - KRÁLOVIČ, Rastislav - KRÁLOVIČ, Richard. Advice complexity of maximum independent set in sparse and bipartite graphs. In Theory of Computing Systems, 2015, vol. 56, no. 1, p. 197-219. (0.533 - IF2014). (2015 - Current Contents). ISSN 1432-4350. |
| ADCA09 | DOBREV, Stefan - EFTEKHARI, Mohsen - MACQUARRIE, Fraser - MAŇUCH, Ján - MORALES PONCE, Oscar. Connectivity with directional antennas in the symmetric communication model. In Computational Geometry: Theory and Applications, 2016, vol. 55, p. 1-25. (0.589 - IF2015). (2016 - Current Contents). ISSN 0925-7721. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0925772116300128>. |
| ADCA10 | DOBREV, Stefan - DUROCHER, Stephane - EFTEKHARI, Mohsen - GEORGIOU, Konstantinos - KRANAKIS, E. Complexity of barrier coverage with relocatable sensors in the plane. In Theoretical Computer Science, 2015, vol. 579, p. 64-73. (0.657 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-3975. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0304397515001036>. |
| ADCA11 | DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Pseudo equality algebras: revision. In Soft Computing, 2016, vol. 20, no. 6, p. 2091-2101. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1888-x>. |
| ADCA12 | DVUREČENSKIJ, Anatolij. Riesz decomposition properties and the lexicographic product of po-groups. In Soft Computing, 2016, vol. 20, no. 6, p. 2103-2117. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1903-2>. |
| ADCA13 | DVUREČENSKIJ, Anatolij. Lexicographic effect algebras. In Algebra Universalis, 2016, vol. 75, no. 4, p. 451-480. (0.344 - IF2015). (2016 - Current Contents). ISSN 0002-5240. Dostupné na internete: <http://link.springer.com/article/10.1007/s00012-016-0374-3>. |
| ADCA14 | DVUREČENSKIJ, Anatolij. Pseudo MV-algebras and lexicographic product. In Fuzzy Sets and Systems, 2016, vol. 303, p. 56-79. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011415004844>. |
| ADCA15 | DVUREČENSKIJ, Anatolij. Olson order of quantum observables. In International Journal of Theoretical Physics, 2016, vol. 55, no. 11, p. 4896-4912. (1.041 - IF2015). (2016 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-016-3113-9?view=classic>. |
| ADCA16 | EOM, Hae-Sung - HAN, Yo-Sub - JIRÁSKOVÁ, Galina. State complexity of basic operations on non-returning regular languages. In Fundamenta Informaticae, 2016, vol. 144, no. 2, p. 161-182. (0.658 - IF2015). (2016 - Current Contents). ISSN 0169-2968. |
| ADCA17 | FARIA, Luerbio - DE FIGUEIREDO, Celina M.H. - RICHTER, R. Bruce - VRŤO, Imrich. The same upper bound for both: the 2-page and the rectilinear crossing numbers of the n-cube. In Journal of graph theory, 2016, vol. 83, no. 1, p. 19-33. (0.796 - IF2015). (2016 - Current Contents). ISSN 0364-9024. Dostupné na internete: <http://onlinelibrary.wiley.com/doi/10.1002/jgt.21910/epdf>. |
| ADCA18 | FEČKAN, Michal - RONTÓ, András - DILNA, Nataliya. On a kind of symmetric weakly non-linear ordinary differential systems. In Bulletin des sciences mathématiques, 2016, vol. 140, no. 2, p. 188-230. (0.664 - IF2015). (2016 - Current Contents). ISSN 0007-4497. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0007449715000895>. |
| ADCA19 | FEČKAN, Michal - MACHŮ, Hana. Discrete Dirichlet boundary value problems with upper semicontinuous right-hand sides. In Journal of Difference Equations and Applications, 2016, vol. 22, no. 7, p.959-972. (0.761 - IF2015). (2016 - Current Contents). ISSN 1023-6198. |
| ADCA20 | HALAŠ, Radomír - PÓCS, Jozef. On the clone of aggregation functions on bounded lattices. In Information Sciences, 2016, vol. 329, p. 381-389. (3.364 - IF2015). (2016 - Current Contents). ISSN 0020-0255. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0020025515006933>. |
| ADCA21 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. A new characterization of the discrete Sugeno integral. In Information Fusion, 2016, vol. 29, p. 84-86. (4.353 - IF2015). (2016 - Current Contents). ISSN 1566-2535. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S1566253515000810>. |
| ADCA22 | HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Congruences and the discrete Sugeno integrals on bounded distributive lattices. In Information Sciences, 2016, vol. 367-368, p. 443-448. (3.364 - IF2015). (2016 - Current Contents). ISSN 0020-0255. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S002002551630439X>. |
| ADCA23 | HOLÁ, Ľubica - ZSILINSZKY, László. On generalized metric properties of the Fell hyperspace. In Annali di Matematica Pura ed Applicata, 2015, vol. 194, p. 1259-1267. (1.065 - IF2014). (2015 - Current Contents). ISSN 0373-3114. |
| ADCA24 | HOLÁ, Ľubica - MIRMOSTAFAEE, Alireza Kamel - PIOTROWSKI, Zbigniew. Points of openness and closedness of some mappings. In Banach Journal of Mathematical Analysis, 2015, vol. 9, no. 1, p. 243-252. (1.050 - IF2014). (2015 - Current Contents). ISSN 1735-8787. |
| ADCA25 | HOLÁ, Ľubica - HOLÝ, Dušan. Minimal usco and minimal cusco maps and compactness. In Journal of Mathematical Analysis and Applications, 2016, vol. 439, no. 2, p. 737-744. (1.014 - IF2015). (2016 - Current Contents). ISSN 0022-247X. |
| ADCA26 | HOLÁ, Ľubica - HOLÝ, Dušan. Quasicontinuous subcontinuous functions and compactness. In Mediterranean Journal of Mathematics, 2016, vol. 13, no. 6, p. 4509-4518. (0.599 - IF2015). (2016 - Current Contents). ISSN 1660-5446. |
| ADCA27 | JENČOVÁ, Anna. On the convex structure of process positive operator valued measures. In Journal of Mathematical Physics, 2016, vol. 57, no. 1, 14 p. (1.234 - IF2015). (2016 - Current Contents). ISSN 0022-2488. |
| ADCA28 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - KRAUSOVÁ, Monika - MLYNÁRČIK, Peter - ŠEBEJ, Juraj. Prefix-free languages: Left and right quotient and reversal. In Theoretical Computer Science, 2016, vol. 610, p. 78-90. (0.643 - IF2015). (2016 - Current Contents). ISSN 0304-3975. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0304397515007781>. |
| ADCA29 | KARDOŠ, František - PÓCS, Jozef - PÓCSOVÁ, Jana. On concept reduction based on some graph properties. In Knowledge-Based Systems, 2016, vol. 93, p. 67-74. (3.325 - IF2015). (2016 - Current Contents). ISSN 0950-7051. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0950705115004219>. |
| ADCA30 | KLIMO, Martin - TARÁBEK, Peter - ŠUCH, Ondrej - SMIEŠKO, Juraj - ŠKVAREK, Ondrej. Implementation of a deep ReLU neuron network with a memristive circuit. In International Journal on Unconventional Computing, 2016, vol. 12, no. 4, p. 319-337. (0.739 - IF2015). (2016 - Current Contents). ISSN 1548-7199. |
| ADCA31 | KOCHOL, Martin. Polynomial algorithms for canonical forms of orientations. In Journal of Combinatorial Optimization, 2016, vol.31, no. 1, p. 218-222. (1.080 - IF2015). (2016 - Current Contents). ISSN 1382-6905. Dostupné na internete: <http://link.springer.com/article/10.1007/s10878-014-9735-z>. |
| ADCA32 | KORBAŠ, Július - RUSIN, Tomáš. On the cohomology of oriented Grassmann manifolds. In Homology, Homotopy and Applications, 2016, vol. 18, no. 2, p. 71-84. (0.486 - IF2015). (2016 - Current Contents). ISSN 1532-0073. |
| ADCA33 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Entropy of fuzzy partitions and entropy of fuzzy dynamical systems. In Entropy, 2016, vol. 18, no. 1, p. 1-10. (1.743 - IF2015). (2016 - Current Contents). ISSN 1099-4300. Dostupné na internete: <http://www.mdpi.com/1099-4300/18/1/19>. |
| ADCA34 | MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy of fuzzy dynamical systems. In Entropy, 2016, vol. 18, no. 4, p.1-16. (1.743 - IF2015). (2016 - Current Contents). ISSN 1099-4300. Dostupné na internete: <http://www.mdpi.com/1099-4300/18/4/157>. |
| ADCA35 | MEDINA, Jesús - OJEDA-ACIEGO, M. - PÓCS, Jozef - RAMÍREZ-POUSSA, E. On the Dedekind-MacNeille completion and formal concept analysis based on multilattices. In Fuzzy Sets and Systems, 2016, vol. 303, p. 1-20. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011416000439>. |
| ADCA36 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Continuous additive generators of continuous, conditionally cancellative triangular subnorms. In Information Sciences, 2016, vol. 339, p. 53-63. (3.364 - IF2015). (2016 - Current Contents). ISSN 0020-0255. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0020025515009056>. |
| ADCA37 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Decomposable and k-additive multi-capacities and multi-polar capacities. In Fuzzy Sets and Systems, 2016, vol. 287, p. 22-36. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011415000238>. |
| ADCA38 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - HYČKO, Marek. Multi-and multi-polar capacities. In Fuzzy Sets and Systems, 2016, vol. 291, p. 18-32. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011414005491>. |
| ADCA39 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. A note on decomposition of idempotent uninorms into an ordinal sum of singleton semigroups. In Fuzzy Sets and Systems, 2016, vol. 299, p. 140-145. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011416301002>. |
| ADCA40 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Ordinal sum construction for uninorms and generalized uninorms. In International Journal of Approximate Reasoning, 2016, vol. 76, p. 1-17. (2.696 - IF2015). (2016 - Current Contents). ISSN 0888-613X. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0888613X16300482>. |
| ADCA41 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Sensitivity analysis of fuzzy rule-based classification systems by means of the Lipschitz condition. In Soft Computing, 2016, vol. 20, no. 1, p. 103-113. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1744-z>. |
| ADCA42 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. T-norms and t-conorms continuous around diagonals. In Fuzzy Sets and Systems, 2016, vol. 299, p. 105-112. (2.098 - IF2015). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0165011415005369>. |
| ADCA43 | NIELEN, L. - OHM, S. - ŠUCH, Ondrej - KLIMO, Martin - WASER, R. - LINN, Eike. Memristive sorting networks enabled by electrochemical metallization cells. In International Journal on Unconventional Computing, 2016, vol. 12, no. 4, p. 303-317. (0.739 - IF2015). (2016 - Current Contents). ISSN 1548-7199. |
| ADCA44 | PALMOVSKÝ, Matúš. Kleene closure and state complexity. In RAIRO : Theoretical Informatics and Applications, 2016, vol. 50, no. 3, p. 251-261. (0.319 - IF2015). (2016 - Current Contents). ISSN 0988-3754. |
| ADCA45 | PLÁVALA, Martin. All measurements in a probabilistic theory are compatible if and only if the state space is a simplex. In Physical Review A, 2016, vol. 94, no. 4, 042108. (2.765 - IF2015). (2016 - Current Contents). ISSN 1050-2947. Dostupné na internete: <http://journals.aps.org/pra/pdf/10.1103/PhysRevA.94.042108>. |
| ADCA46 | PLOŠČICA, Miroslav. Uncountable critical points for congruence lattices. In Algebra Universalis, 2016, vol. 76, no. 4, p. 415-429. (0.344 - IF2015). (2016 - Current Contents). ISSN 0002-5240. |
| ADCA47 | POSPÍŠIL, Michal - JAROŠ, František. On the representation of solutions of delayed differential equations via Laplace transform. In Electronic Journal of Qualitative Theory of Differential Equations, 2016, no. 117, p. 1-13. (0.732 - IF2015). (2016 - Current Contents). ISSN 1417-3875. |
| ADCA48 | PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Compatibility of observables on effect algebras. In Soft Computing, 2016, vol. 20, no. 10, p. 3957-3967. (1.630 - IF2015). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1984-y?view=classic>. |
| ADCA49 | REPICKÝ, Miroslav. Cofinality of the laver ideal. In Archive for Mathematical Logic, 2016, vol. 55, no. 7, p. 1025-1036. (0.453 - IF2015). (2016 - Current Contents). ISSN 1432-0665. Dostupné na internete: <http://link.springer.com/article/10.1007/s00153-016-0510-y>. |
| ADCA50 | ŠUCH, Ondrej - BARREDA, Santiago. Bayes covariant multi-class classification. In Pattern Recognition Letters, 2016, vol. 84, p. 99-106. (1.586 - IF2015). (2016 - Current Contents). ISSN 0167-8655. |
| ADCA51 | WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Differential inclusions of arbitrary fractional order with anti-periodic conditions in Banach spaces. In Electronic Journal of Qualitative Theory of Differential Equations, 2016, no. 34, p.1-22. (0.732 - IF2015). (2016 - Current Contents). ISSN 1417-3875. Dostupné na internete: <http://www.math.u-szeged.hu/ejqtde/p4596.pdf>. |
| ADCA52 | WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. A survey on impulsive fractional differential equations. In Fractional Calculus and Applied Analysis, 2016, vol. 19, no. 4, p. 806-831. (2.246 - IF2015). (2016 - Current Contents). ISSN 1311-0454. Dostupné na internete: <https://www.researchgate.net/publication/307597695\_A\_survey\_on\_impulsive\_fractional\_differential\_equations>. |

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

|  |  |
| --- | --- |
| ADEB01 | ANGELOVA, Nora - ATANASSOV, Krassimir T. - RIEČAN, Beloslav. Intercriteria analysis of the intuitionistic fuzzy implication properties. In Notes on Intuitionistic Fuzzy Sets, 2015, vol. 21, no. 5, p. 20-23. ISSN 1310-4926. |
| ADEB02 | BALÁŽ, Vladimír - IACò, Maria Rita - STRAUCH, Oto - THONHAUSER, Stefan - TICHY, Robert F. An extremal problem in uniform distribution theory. In Uniform Distribution Theory, 2016, vol. 11, no. 2, p. 1-21. ISSN 1336-913X. Dostupné na internete: <https://math.boku.ac.at/udt/vol11/no2/01BISTT.pdf>. |
| ADEB03 | HALUŠKA, Ján - HUTNÍK, Ondrej. The Egoroff theorem for operator-valued measures in locally convex spaces. In Communications in Mathematical Analysis, 2015, vol. 18, no. 2, p. 106-111. ISSN 0973-3841. |
| ADEB04 | HOLÁ, Ľubica - HOLÝ, Dušan. Minimal usco and minimal cusco maps. In Khayyam Journal of Mathematics, 2015, vol. 1, no. 2, p. 125-150. ISSN 2423-4788. |
| ADEB05 | KLUVANCOVÁ, Daniela - RIEČAN, Beloslav. On IF-numbers. In Notes on Intuitionistic Fuzzy Sets, 2016, vol. 22, no. 3, p. 9-14. ISSN 1310-4926. Dostupné na internete: <http://www.ifigenia.org/mediawiki/images/a/ae/NIFS-22-3-009-013.pdf>. |
| ADEB06 | MEDVEĎ, Milan - POSPÍŠIL, Michal. Representation of solutions of systems of linear differential equations with multiple delays and linear parts given by nonpermutable matrices. In Nonlinear Oscillations, 2016, vol. 19, no. 4, p. 521-532. ISSN 1562-3076. |
| ADEB07 | OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers. In Uniform Distribution Theory, 2016, vol.11, no. 1, p. 23-45. ISSN 1336-913X. Dostupné na internete: <https://math.boku.ac.at/udt/vol11/no1/03OhkuStrauch.pdf>. |
| ADEB08 | RIEČAN, Beloslav. On IF-semistates. In Notes on Intuitionistic Fuzzy Sets, 2016, vol. 22, no. 1, p. 27-34. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/mediawiki/images/5/50/NIFS-22-1-27-34.pdf>. |
| ADEB09 | TISHEVA, Diana - RIEČAN, Beloslav - ATANASSOV, Krassimir T. On intuitionistic fuzzy norms and distances generated by the intuitionistic fuzzy substractions ¬'11 and ¬"11. In Notes on Intuitionistic Fuzzy Sets, 2016, vol. 22, no. 1, p. 7-12. ISSN 1310-4926. Dostupné na internete: <http://ifigenia.org/mediawiki/images/8/8e/NIFS-22-1-07-12.pdf>. |

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

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| ADMA01 | CZYZOWICZ, J. - DOBREV, Stefan - JOERIS, B. - KRANAKIS, E. - KRIZANC, D. Monitoring the plane with rotating radars. In Graphs and combinatorics, 2015, vol. 31, no. 2, p. 393-405. (0.388 - IF2014). (2015 - WOS, SCOPUS). ISSN 0911-0119. |
| ADMA02 | FOULIS, David J - PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Unitizations of generalized pseudo effect algebras and their ideals. In Order, 2016, vol. 33, no. 2, p. 311-332. (0.614 - IF2015). ISSN 0167-8094. Dostupné na internete: <http://link.springer.com/article/10.1007/s11083-015-9368-6>. |
| ADMA03 | HU, Kan - JONES, Gareth A. - NEDELA, Roman - WANG, Naer. Non-abelian almost totally branched coverings over the platonic maps. In European Journal of Combinatorics, 2016, vol. 51, p. 1-11. (0.650 - IF2015). ISSN 0195-6698. |

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

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| ADMB01 | CZYZOWICZ, J. - DOBREV, Stefan - KRANAKIS, E. - PACHECO, Eduardo. Survivability of bouncing robots. In Discrete Mathematics Algorithms and Applications, 2016, vol. 8, no. 3, article no. 1650042. (2016 - WOS). ISSN 1793-8309. |
| ADMB02 | FLATZ, Markus - VAJTERŠIC, Marián. Parallel Nonnegative Matrix Factorization via Newton Iteration. In Parallel Processing Letters, 2016, vol. 26, no. 3, article number 1650014. ISSN 0129-6264. |
| ADMB03 | FRIČ, Roman - PAPČO, Martin. Upgrading probability via fractions of events. In Communications in Mathematics, 2016, vol. 24, no. 1, p. 29-41. ISSN 1804-1388. |
| ADMB04 | KORBAŠ, Július - RUSIN, Tomáš. A note on the Z(2)-cohomology algebra of oriented Grassmann manifolds. In Rendiconti del Circolo Mathematico di Palermo Series 2, 2016, vol. 65, p. 507-517. (2016 - Scopus). ISSN 0009-725X. |

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

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| ADNA01 | DANCA, Marius-F. - FEČKAN, Michal. Note on a parameter switching method for nonlinear odes. In Mathematica Slovaca, 2016, vol. 66, no. 2, p. 439-448. (0.366 - IF2015). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2016.66.issue-2/ms-2015-0148/ms-2015-0148.xml>. |
| ADNA02 | ELIAŠ, Peter. On the convergence of a series mapped by a function. In Mathematica Slovaca, 2015, vol. 65, no. 1, p. 63-78. (0.409 - IF2014). (2015 - WOS). ISSN 0139-9918. |
| ADNA03 | FOULIS, David J - PULMANNOVÁ, Sylvia. Commutativity in a synaptic algebra. In Mathematica Slovaca, 2016, vol.66, no. 2, p. 469-482. (0.366 - IF2015). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2016.66.issue-2/ms-2015-0151/ms-2015-0151.xml>. |
| ADNA04 | JAKUBÍK, Ján. Lexico groups and direct products of lattice ordered groups. In Mathematica Slovaca, 2016, vol. 66, no. 1, s. 35-42. (0.366 - IF2015). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2016.66.issue-1/ms-2015-0113/ms-2015-0113.xml>. |
| ADNA05 | JAKUBÍK, Ján. Convex subalgebras of upper bounded GMV-algebras. In Mathematica Slovaca, 2016, vol.66, no. 2, s. 379-386. (0.366 - IF2015). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2016.66.issue-2/ms-2015-0143/ms-2015-0143.xml>. |
| ADNA06 | WIMMER, Gejza - MAČUTEK, Ján - ALTMANN, G. Discrete averaged mixing applied to the logarithmic distributions. In Mathematica Slovaca, 2016, vol.66, no. 2, p. 483-492. (0.366 - IF2015). ISSN 0139-9918. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/ms.2016.66.issue-2/ms-2015-0152/ms-2015-0152.xml>. |

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

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| ADNB01 | BALÁŽ, Vladimír - FIALOVÁ, Jana - HOFER, M. - IACO, M.R. - STRAUCH, Oto. The asymptotic distribution function of the 4-dimensional shifted van der Corput sequence. In Tatra Mountains Mathematical Publications, 2015, vol. 64, p. 75-92. (2015 - SCOPUS). ISSN 1210-3195. Dostupné na internete: <https://www.degruyter.com/downloadpdf/j/tmmp.2015.64.issue-1/tmmp-2015-0043/tmmp-2015-0043.xml>. |
| ADNB02 | SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In Tatra Mountains Mathematical Publications, 2016, vol. 66, p. 103-120. ISSN 1210-3195. |
| ADNB03 | STRAUCH, Oto. Distribution functions of ratio sequences. An expository paper. In Tatra Mountains Mathematical Publications, 2015, vol. 64, p. 133-185. (2015 - SCOPUS). ISSN 1210-3195. Dostupné na internete: <https://www.sav.sk/journals/uploads/0205125609Strauc.pdf>. |

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

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| AECA01 | JENČOVÁ, Anna. Comparison of quantum channels and statistical experiments. In ISIT 2016 : 2016 IEEE International Symposium on Information Theory : proceedings. - Danvers : IEEE, 2016, p. 2249-2253. ISBN 978-1-5090-1806-2. ISSN 2157-8117. |
| AECA02 | WIMMER, Gejza - MAČUTEK, Ján. Lexical text compactness with link length taken into account. In Issues in Quantitative Linguistics 4 : Dedicated to Reinhard Köhler on the occasion of his 65th birthday. - Lüdenscheid : RAM-Verlag, 2016, p. 217-227. ISBN 978-3-942303-44-6. |

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

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| AFC01 | BEČKA, Martin - OKŠA, Gabriel. New approach to local computations in the parallel one-sided Jacobi SVD algorithm. In Parallel Processing and Applied Mathematics : LNCS 9573. Eds R. Wyrzykowski et al. - Springer International Publishing, 2016, p. 605-617. ISBN 978-3-319-32148-6. ISSN 0302-9743. |
| AFC02 | BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LIU, Bo - RAJASEKARAN, Aayush - SZYKUŁA, Marek. On the state complexity of the shuffle of regular languages. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 73-86. ISBN 978-3-319-41113-2. ISSN 0302-9743. |
| AFC03 | ČEVOROVÁ, Kristína. Square on ideal, closed and free languages. In Descriptional Complexity of Formal Systems : LNCS 9118, proceedings. Eds. Jeffrey Shallit, Alexander Okhotin. - Springer International Publishing, 2015, p. 70-80. ISBN 978-3-319-19224-6. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007%2F978-3-319-19225-3\_6>(DCFS 2015). |
| AFC04 | ČUNDERLÍKOVÁ, Katarína - RIEČAN, Beloslav. On an intuitionistic fuzzy probability theory. In Advances in intuitionistic fuzzy sets and generalized nets : proceedings of 14th international conference in intuitionistic fuzzy sets and generalized nets. Eds. Atanassov, K.T. et al. - Springer, 2016, s. 125-136. ISBN 978-3-319-26210-9. |
| AFC05 | DI LUNA, G. - DOBREV, Stefan - FLOCCHINI, Paola - SANTORO, Nicola. Live exploration of dynamic rings. In ICDCS 2016: IEEE 36th International Conference on Distributed Computing Systems : proceedings. - Danvers : IEEE, 2016, p. 570-579. ISBN 978-1-5090-1482-8. |
| AFC06 | DI STOLFO, Paolo - VAJTERŠIC, Marián. Fast algorithm for the fourth-order elliptic problem based on orthogonal matrix decomposition. In Parallel Processing and Applied Mathematics : LNCS 9573. Eds R. Wyrzykowski et al. - Springer International Publishing, 2016, p. 583-593. ISBN 978-3-319-32148-6. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007%2F978-3-319-32149-3\_54>. |
| AFC07 | DOBREV, Stefan - HROMKOVIČ, Juraj - KOMM, Dennis - KRÁLOVIČ, Richard - KRÁLOVIČ, Rastislav - MÖMKE, Tobias. The complexity of paging against a probabilistic adversary. In SOFSEM 2016: Theory and Practice of Computer Science : proceedings, LNCS 9587. R. M. Freivalds, G. Engels, B. Catania (eds.). - Berlin : Springer, 2016, s. 265-276. ISBN 978-3-662-49191-1. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007%2F978-3-662-49192-8\_22>. |
| AFC08 | EOM, Hae-Sung - PALMOVSKÝ, Matúš. Combined operations on prefix-free and suffix-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 147-162. ISBN 978-3-903035-10-2. |
| AFC09 | GFRERER, Christine - VAJTERŠIC, Marián - KUTIL, Rade. Two parallel alignment algorithms for big number of strings. In The 2016 International Conference on High Performance Computing and Simulation : proceedings, HPCS 2016. Waleed W. Smari (ed.). - Danvers : IEEE, 2016, p. 967-972. ISBN 978-1-5090-2089-8. |
| AFC10 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity of operations on closed and ideal languages. In Implementation and Application of Automata : proceedings, LNCS 9705. Eds. Yo-Sub Han, Kai Salomaa. - Springer International Publishing, 2016, p. 125-137. ISBN 978-3-319-40945-0. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007/978-3-319-40946-7\_11>. |
| AFC11 | HOSPODÁR, Michal. Complexity on unary union-free and unary star-free languages. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016) : short papers. H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Institut für Computersprachen, 2016, p. 15-23. ISBN 978-3-200-04725-9. Dostupné na internete: <https://www.dropbox.com/sh/al0cxf6s7ukq5xj/AAC6fMLB1GWMRx3f8s9vSBFKa/S2/NCMA2016S2.pdf?dl=0>. |
| AFC12 | HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. Concatenation on deterministic and alternating automata. In Eighth Workshop on Non-Classical Models of Automata and Applications (NCMA 2016). H. Bordihn, R. Freund, B. Nagy, G. Vaszil (eds.). - Wien : Österreichische Computer Gesellschaft, 2016, p. 179-194. ISBN 978-3-903035-10-2. Dostupné na internete: <https://www.dropbox.com/sh/al0cxf6s7ukq5xj/AADi7LDOvr8ozUayyqYKTV74a/P08/NCMA2016P08.pdf?dl=0>. |
| AFC13 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - ŠEBEJ, Juraj. Operations on unambiguous finite automata. In Developments in Language Theory : proceedings, LNCS 9840. Srečko Brlek, Christophe Reutenauer (eds.). - Berlin : Springer, 2016, p. 243-255. ISBN 978-3-662-53131-0. ISSN 0302-9743. |
| AFC14 | JIRÁSKOVÁ, Galina. Self-verifying finite automata and descriptional complexity. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 29-44. ISBN 978-3-319-41113-2. ISSN 0302-9743. |
| AFC15 | JIRÁSKOVÁ, Galina - SZABARI, Alexander - ŠEBEJ, Juraj. The complexity of languages resulting from the concatenation operation. In Descriptional Complexity of Formal Systems : proceedings, LNCS 9777. Cezar Câmpeanu, Florin Manea, Jeffrey Shallit (eds.). - IFIP : Springer, 2016, p. 153-167. ISBN 978-3-319-41113-2. ISSN 0302-9743. |
| AFC16 | KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Performance of the parallel one-sided block Jacobi SVD algorithm on a modern distributed-memory parallel computer. In Parallel Processing and Applied Mathematics : LNCS 9573. Eds R. Wyrzykowski et al. - Springer International Publishing, 2016, p. 594-604. ISBN 978-3-319-32148-6. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007%2F978-3-319-32149-3\_55>. |
| AFC17 | PALMOVSKÝ, Matúš - ŠEBEJ, Juraj. Star-complement-star on prefix-free languages. In Descriptional Complexity of Formal Systems : LNCS 9118, proceedings. Eds. Jeffrey Shallit, Alexander Okhotin. - Springer International Publishing, 2015, p. 231-242. ISBN 978-3-319-19224-6. ISSN 0302-9743. Dostupné na internete: <http://link.springer.com/chapter/10.1007/978-3-319-19225-3\_20>(DCFS 2015). |
| AFC18 | POVAŽAN, Jaroslav - RIEČAN, Beloslav. On partially ordered product spaces. In Advances in intuitionistic fuzzy sets and generalized nets : proceedings of 14th international conference in intuitionistic fuzzy sets and generalized nets. Eds. Atanassov, K.T. et al. - Springer, 2016, s. 29-35. ISBN 978-3-319-26210-9. |

**AFG Abstrakty príspevkov zo zahraničných konferencií**

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| AFG01 | BOLTEN, Matthias - PHILIPPE, Laurent - ARBENZ, Peter - DAOUDI, El Mostafa - NEYTCHEVA, Maya - VAJTERŠIC, Marián. Parallel numerical methods and applications. In Euro-Par 2016: parallel processing : proceedings. - Springer International Publishing, 2016, p. XXII-XXIII. ISBN 978-3-319-43658-6. ISSN 0302-9743. |
| AFG02 | OKŠA, Gabriel - YAMAMOTO, Yusaku - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the parallel block-Jacobi EVD algorithm for Hermitian matrices. In PMAA16: Parallel Matrix Algorithms and Applications : book of abstracts. - Bordeaux : University of Bordeaux, 2016, p. 56. |
| AFG03 | WIMMER, Gejza - WITKOVSKÝ, Viktor. Computing the distribution of collective risk models via numerical inversion of the characteristic function. In CFE-CMStatistics 2016 : 10th International Conference on Computational and Financial Econometrics (CFE 2016) and 9th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2016). Programme and Abstracts. - CFE and CMStatistics Networks, 2016, p. 110. ISBN 978-9963-2227-1-1. |

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

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| BEF01 | FLATZ, Markus - VAJTERŠIC, Marián. Nonnegative Matrix Factorization via Newton iteration for shared-memory systems. In Proceedings of the Conference Algoritmy 2016 [elektronický zdroj]. A. Handlovičová, D. Ševčovič (eds.). - Bratislava : Slovak University of Technology, 2016, p. 312-322. ISBN 978-80-227-4544-4. Názov z webovej stránky. Požaduje sa Adobe Reader. Dostupné na internete: <http://www.iam.fmph.uniba.sk/amuc/ojs/index.php/algoritmy/article/view/420>. |

**EAI Knižné práce prehľadového charakteru**

|  |  |
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| EAI01 | DVUREČENSKIJ, Anatolij - HOLÁ, Ľubica - JANKOVÁ, Katarína - RIEČAN, Beloslav. Tibor Neubrunn (1929-1990). Praha : MatfyzPress, 2016. 131 s. Dějiny matematiky, 61. ISBN 978-80-7378-313-6. |

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

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| FAI01 | 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. |
| FAI02 | 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. |
| FAI03 | 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. |

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

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| GHG01 | KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking: performance analysis and optimization : Technical Report 2016-02 [elektronický zdroj]. Salzburg : Universität Salzburg, 2016. 17 p. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/3\_Forschung/2016-02\_Kudo\_Yamamoto\_Becka\_Vajtersic.pdf>. |
| GHG02 | OKŠA, Gabriel - YAMAMOTO, Yusaku - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the parallel block-Jacobi EVD algorithm for Hermitian matrices : Technical Report 2016-01 [elektronický zdroj]. Salzburg : Universität Salzburg, 2016. 11 p. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete: <https://www.uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/documents/Technical\_Reports/2016-01\_Oksa\_Yamamoto\_Vajtersic-2.pdf>. |

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

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| GII01 | DVUREČENSKIJ, Anatolij. Prof. RNDr. Tibor Neubrunn, DrSc. a začiatky teórie kvantových logík na Slovensku. In Obzory matematiky, fyziky a informatiky, 2016, vol. 45, no. 1, s. 69-72. ISSN 1335-4981. |
| GII02 | DVUREČENSKIJ, Anatolij. Zomrel prof. RNDr. Ján Jakubík, DrSc., nestor slovenských matematikov. In Obzory matematiky, fyziky a informatiky, 2016, vol.45, no. 1, s. 65-67. ISSN 1335-4981. |
| GII03 | DVUREČENSKIJ, Anatolij. Prof. RNDr. Ján Jakubík, DrSc. passed away : Prof. RNDr. Ján Jakubík, DrSc. and his life and work. In Mathematica Slovaca, 2016, vol. 66, no. 1, p. 1-4. (0.366 - IF2015). ISSN 0139-9918. |

**Ohlasy (citácie):**

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

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| AAA01 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. New Trends in Quantum Structures. Dordrecht : Kluwer Academic ; Bratislava : Ister Science, 2000. 541+xvi pp. ISBN 0-7923-6471-6. |

Citácie:

*1. [1.1] BINCZAK, G. - KALETA, J. Sharp and principal elements in effect algebras. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2015, vol. 56, no. 10, pp., WOS*

*2. [1.1] BOTUR, M., PASEKA, J. On tense MV-algebras. In Fuzzy Sets and Systems, 2015, vol. 259, p. 111-125., WOS*

*3. [1.1] CHAJDA, I. - GIL-FEREZ, J. - GIUNTINI, R. - KOLARIK, M. - LEDDA, A. - PAOLI, F. On some properties of directoids. In SOFT COMPUTING. ISSN 1432-7643, 2015, vol. 19, no. 4, pp. 955-964., WOS*

*4. [1.1] CHAJDA, Ivan - PASEKA, Jan. Dynamic Order Algebras as an Axiomatization of Modal and Tense Logics. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, 2015, vol. 54, no. 12, pp. 4327-4340., WOS*

*5. [1.1] DA COSTA, Newton C. A. - HOLIK, Federico. A formal framework for the study of the notion of undefined particle number in quantum mechanics. In SYNTHESE. ISSN 0039-7857, 2015, vol. 192, no. 2, pp. 505-523., WOS*

*6. [1.1] FRIC, Roman - PAPCO, Martin. On Probability Domains III. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, 2015, vol. 54, no. 12, pp. 4237-4246., WOS*

*7. [1.1] HE, Kan - SUN, Fanguo - HOU, Jinchuan. Separability of sequential isomorphisms on quantum effects in multipartite systems. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. ISSN 1751-8113, 2015, vol. 48, no. 7, pp., WOS*

*8. [1.1] HOLIK, Federico - BOSYK, Gustavo M. - BELLOMO, Guido. Quantum Information as a Non-Kolmogorovian Generalization of Shannon&apos;s Theory. In ENTROPY. ISSN 1099-4300, 2015, vol. 17, no. 11, p. 7349-7373., WOS*

*9. [1.1] JACOBS, Bart. Dijkstra and Hoare monads in monadic computation. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, 2015, vol. 604, no., p. 30-45., WOS*

*10. [1.1] JENCA, Gejza. Effect Algebras are the Eilenberg-Moore Category for the Kalmbach Monad. In ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS. ISSN 0167-8094, 2015, vol. 32, no. 3, pp. 439-448., WOS*

*11. [1.1] KRNAVEK, Jan - KUHR, Jan. A note on derivations on basic algebras. In SOFT COMPUTING. ISSN 1432-7643, 2015, vol. 19, no. 7, pp. 1765-1771., WOS*

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*3. [1.1] HE, Pengfei - XIN, Xiaolong - YANG, Yongwei. On state residuated lattices. In SOFT COMPUTING. ISSN 1432-7643, 2015, vol. 19, no. 8, p. 2083-2094., WOS*

*4. [1.1] MA, Zhen Ming - FU, Zun Wei. Algebraic study to generalized Bosbach states on residuated lattices. In SOFT COMPUTING. ISSN 1432-7643, 2015, vol. 19, no. 9, p. 2541-2550., WOS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | BUTKA, P. - PÓCSOVA, J. - PÓCS, Jozef. Design and Implementation of Incremental Algorithm for Creation of Generalized One–Sided Concept Lattices. In 12th IEEE International Symposium on Computational Intelligence and Informatics (CINTI 2011). - Budapest, Hungary, 2011. |

Citácie:

*1. [1.1] BABIC, Frantisek - LUKACOVA, Alexandra - PARALIC, Jan. Descriptive and Predictive Analyses of Data Representing Aviation Accidents. In NEW RESEARCH IN MULTIMEDIA AND INTERNET SYSTEMS. ISSN 2194-5357, 2015, vol. 314, p. 181-190., WOS*

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

Citácie:

*1. [3.1] KUKOVÁ, Mária - NAVARA, Mirko. Measures on interval-valued fuzzy sets and IF-sets and principle of inclusion and exclusion. In Proceedings of the 8th International Summer School on Aggregation Operators (AGOP 2015). Eds. M. Baczynski, B. De Baets, R. Mesiar. Katowice: University of Silesia, 2015. ISBN 978-83-8012-519-3, p. 163-168.*

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

Citácie:

*1. [1.2] VIAUD, Jean François - BERTET, Karell - DEMKO, Christophe - MISSAOUI, Rokia. Subdirect decomposition of contexts into subdirectly irreducible factors. In CEUR Workshop Proceedings. ISSN 16130073, 2015, vol. 1434, p. 49-64., SCOPUS*

|  |  |
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| AFC04 | VOJTÁŠ, Peter. Generalized Galois-Tukey connections between explicit relations on classical objects of real analysis. In Set Theory of the Reals, Vol. 6. - Bar-Ilan University, 1993, s. 619-643. |

Citácie:

*1. [1.1] DA SILVA, Samuel G. ON THE EXTENT OF SEPARABLE, LOCALLY COMPACT, SELECTIVELY (a)-SPACES. In COLLOQUIUM MATHEMATICUM. ISSN 0010-1354, 2015, vol. 141, no. 2, p. 199-208., WOS*

*2. [1.1] DIAS, Rodrigo R. - SCHEEPERS, Marion. Selective games on binary relations. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2015, vol. 192, p. 58-83., WOS*

|  |  |
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| AFC05 | WIMMER, Gejza. Niektoré matematicko-štatistické modely kalibrácie. In ROBUST 2006 : sborník prací 14. zimní školy JČMF. Editor J. Antoch, G. Dohnal. - Praha : JČMF, 2006, p. 375-386.(ROBUST 2006 : 14. zimní škola JČMF). |

Citácie:

*1. [2.2] SIRUCKOVA, Petra. Two methods of quadratic calibration. In APLIMAT 2014: 13th Conference on Applied Mathematics, Proceedings, 2014, p. 371-381., SCOPUS*

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

|  |  |
| --- | --- |
| AFDA01 | CABRERA, I. P. - OJEDA-ACIEGO, M. - PÓCS, Jozef. Ordering objects via attribute preferences. In Proceedings of the 11-th International Conference on Concept Lattices and Their Applications, (CLA 2014). - 2014, s. 157-167. ISBN 978-80-8152-159-1. |

Citácie:

*1. [1.1] DIAS, Sergio M. - VIEIRA, Newton J. Concept lattices reduction: Definition, analysis and classification. In EXPERT SYSTEMS WITH APPLICATIONS. ISSN 0957-4174, 2015, vol. 42, no. 20, p. 7084-7097., WOS*

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| AFDA02 | RIEČAN, Beloslav. On Largange mean value theorem for functions on Atanassov IF sets. In Proceedings of the Eighth International Workshop on Intuitionistic Fuzzy Sets. - 2012, s. 8-11. |

Citácie:

*1. [1.1] MICHALIKOVA, A. Definitive Integral on the Interval of IF Sets. In INTELLIGENT SYSTEMS'2014, VOL 1: MATHEMATICAL FOUNDATIONS, THEORY, ANALYSES. ISSN 2194-5357, 2015, vol. 322, p. 163-170., WOS*

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

|  |  |
| --- | --- |
| GHG01 | HYČKO, Marek. Computations in OML [elektronický zdroj]. Bratislava, 2004. Názov z internetu. Dostupné na internete: <http://www.mat.savba.sk/~hycko/oml/>. |

Citácie:

*1. [1.1] GAGOLA, Stephen M. - GABRIELS, Jeannine J. M. - NAVARA, Mirko. Weaker forms of associativity in orthomodular lattices. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2015, vol. 73, no. 3-4, p. 249-266., WOS*

|  |  |
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| GHG02 | MAJERNÍK, Vladimír. An alternative to classical naked singularity and black hole. In Physics Essays, 2009, vol. 22, no. 3, p. 413-419. ISSN 0836-1398. Dostupné na internete: <doi: 10.4006/1.3187148>. |

Citácie:

*1. [1.1] BEN-AMOTS, N. Energy accumulation in relativistic sub-Bohr orbitals, Franklin&apos;s relativistic rotation of quarks and gravitational field bounceback as processes relevant to explosion of supernovae. In 9TH BIENNIAL CONFERENCE ON CLASSICAL AND QUANTUM RELATIVISTIC DYNAMICS OF PARTICLES AND FIELDS (IARD 2014). ISSN 1742-6588, 2015, vol. 615, Article no. 012012., WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Funkcie komplexnej premennej

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 1

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 2

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 3

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 4

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 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

doc. RNDr. Roman Frič, DrSc.

Názov semestr. predmetu: Vybrane kapitoly

Počet hodín za semester: 26

Názov katedry a vysokej školy: Pedagogická fakulta KU, Katedra metematiky

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Ekonometria I

Počet hodín za semester: 2

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 18

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: Matematická logika

Počet hodín za semester: 39

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: MATLAB I, II

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: 3

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě II

Počet hodín za semester: 3

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Computer Architecture

Počet hodín za semester: 30

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Linear Algebra

Počet hodín za semester: 45

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Numerical Mathematics

Počet hodín za semester: 30

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

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: Matematická štatistika 4

Počet hodín za semester: 30

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 1

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 1

Počet hodín za semester: 36

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 192

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Fakulta informatiky a informačných technológií

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 168

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Fakulta informatiky a informačných technológií

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Ekonometria I

Počet hodín za semester: 2

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Matematická logika

Počet hodín za semester: 26

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav 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 (4)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 78

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: Computer Architecture

Počet hodín za semester: 30

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Linear Algebra

Počet hodín za semester: 30

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Numerical Mathematics

Počet hodín za semester: 15

Názov katedry a vysokej školy: University of Salzburg, Austria, Department of Computer Sciences

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Bayesovské metody

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: Mnohorozměrné statistické metody 2

Počet hodín za semester: 26

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

Semináre:

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Proseminár z TEX-u

Počet hodín za semester: 26

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

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha E***

**Medzinárodná mobilita organizácie**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Karol Nemoga | 7 |
| Česko |  |  |  |  | Anatolij Dvurečenskij | 1 |
|  |  |  |  |  | Roman Frič | 4 |
|  |  |  |  |  | Ľubica Holá | 3 |
|  |  |  |  |  | Marek Hyčko | 2 |
|  |  |  |  |  | Stanislav Jakubec | 2 |
|  |  |  |  |  | Galina Jirásková | 6 |
|  |  |  |  |  | Mária Jurečková | 5 |
|  |  |  |  |  | Giselle Monteiro | 20 |
|  |  |  |  |  | Karol Nemoga | 4 |
|  |  |  |  |  | Jozef Pócs | 5 |
|  |  |  |  |  | Sylvia Pulmannová | 3 |
| Čína |  |  |  |  | Giselle Monteiro | 14 |
| Fínsko |  |  |  |  | Galina Jirásková | 4 |
| Francúzsko |  |  |  |  | Stefan Dobrev | 5 |
|  |  |  |  |  | Ondrej Šuch | 6 |
| Kanada |  |  |  |  | Stefan Dobrev | 29 |
|  |  |  |  |  | Anna Jenčová | 15 |
| Kórejská republika |  |  |  |  | Matúš Palmovský | 213 |
| Nemecko |  |  |  |  | Tibor Macko | 232 |
|  |  |  |  |  | Karol Nemoga | 4 |
| Poľsko |  |  |  |  | Giselle Monteiro | 6 |
| Rakúsko |  |  |  |  | Martin Kochol | 3 |
|  |  |  |  |  | Gabriel Okša | 7 |
| Rusko |  |  |  |  | Galina Jirásková | 13 |
| **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** |
| Španielsko |  |  |  |  | Anna Jenčová | 5 |
| Taliansko |  |  |  |  | Ľubica Holá | 8 |
| **Počet vyslaní spolu** |  |  |  |  | **27** | **626** |

**(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 | Prof. Štefan Porubský | 12 |  |  | doc. Michal Botur | 3 |
|  |  |  |  |  | Prof. Pavel Pták | 3 |
| Kanada |  |  |  |  | Dr. Ryszard P. Kostecki | 4 |
| Nemecko |  |  |  |  | Prof. Markus Holzer | 5 |
| Taliansko |  |  |  |  | Dr. Raffeala Carbone | 3 |
|  |  |  |  |  | Dr. Roberto Giuntini | 3 |
| **Počet prijatí spolu** | **1** | **12** |  |  | **6** | **21** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Bosna a Hercegovina | SSRA XL | Giselle Monteiro | 7 |
| Česko | AGT 2016 | Štefan Gyürki | 6 |
|  |  | Ján Karabáš | 6 |
|  |  | Roman Nedela | 6 |
|  | CEQIP | Martin Plávala | 4 |
|  | ISCAMI | Igor Mračka | 4 |
|  | SSAOS | Sylvia Pulmannová | 7 |
| Francúzsko | MAC | Stefan Dobrev | 1 |
|  | PMAA | Martin Bečka | 6 |
|  |  | Gabriel Okša | 6 |
| Holandsko | DPCOpenSci | Karol Nemoga | 4 |
| Izrael | WkSIPQCrypt | Karol Nemoga | 6 |
| Kanada | DLT 2016 | Galina Jirásková | 7 |
| Kórejská republika | CIAA 2016 | Kristína Čevorová | 6 |
|  |  | Michal Hospodár | 6 |
|  |  | Galina Jirásková | 6 |
|  |  | Peter Mlynárčik | 6 |
|  |  | Matúš Palmovský | 6 |
| Luxembursko | ISAS 2016 | Jozef Pócs | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Macedónsko | ICTA 2016 | Ľubica Holá | 8 |
|  |  | Branislav Novotný | 8 |
| Maďarsko | HMTM | Roman Frič | 4 |
|  | NCMA 2016 | Kristína Čevorová | 4 |
|  |  | Michal Hospodár | 5 |
|  |  | Galina Jirásková | 5 |
|  |  | Peter Mlynárčik | 5 |
|  |  | Matúš Palmovský | 4 |
|  | QI\_MP 2016 | Anna Jenčová | 6 |
|  | UDT | Oto Strauch | 5 |
| Nemecko | SSDSSE 2016 | Karol Nemoga | 10 |
|  | TQC | Martin Plávala | 3 |
| Nórsko | ArcticCrypt | Karol Nemoga | 8 |
|  | WkCryptology | Karol Nemoga | 5 |
| Poľsko | AALCS XX | Emília Halušková | 5 |
|  | DAAP | Roman Frič | 3 |
|  |  | Dušana Štiberová | 3 |
|  | MISSI 2016 | Jozef Pócs | 3 |
| Rumunsko | DCFS 2016 | Galina Jirásková | 6 |
|  |  | Peter Mlynárčik | 6 |
| Srbsko | ATA 2016 | Ján Borsík | 8 |
|  |  | Ľubica Holá | 8 |
| Španielsko | CMStatistics | Gejza Wimmer | 6 |
|  | CSASC 2016 | Ján Karabáš | 8 |
|  |  | Roman Nedela | 8 |
|  | ISIT | Anna Jenčová | 6 |
| Taliansko | WkEABRT | Sylvia Pulmannová | 5 |
| Veľká Británia | IQSA 2016 | Roman Frič | 7 |
|  |  | Sylvia Pulmannová | 7 |
| **Spolu** | **31** | **48** | **276** |

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

Skratky použité v tabuľke C:

AALCS XX - Applications of Algebra in Logic and Computer Science

AGT 2016 - Workshop on algebraic graph theory

ArcticCrypt - ArcticCrypt

ATA 2016 - Analysis, Topology, Algebra: Theory and Applications

CEQIP - 13th Central European Quantum Information Processing Workshop

CIAA 2016 - 21st International Conference on Implementation and Application of Automata

CMStatistics - 9th International Conference on Computational and Methodological Statistics

CSASC 2016 - Czech, Slovenian, Austrian, Slovak and Catalan Mathematical Societies join meeting

DAAP - Different Aspects of Analysis and Probability

DCFS 2016 - Descriptional Complexity of Formal Systems (18th IFIP WG 1.2 International Conference)

DLT 2016 - Developments in Language Theory (20th International Conference)

DPCOpenSci - Dutch Presidency conference on Open Science

HMTM - History of Mathematics and Teaching of Mathematics

ICTA 2016 - International Conference on Topology and its Applications

IQSA 2016 - International Quantum Structures Association Conference - Quantum Structures

ISAS 2016 - International symposium on aggregation and structures

ISCAMI - International Student Conference on Applied Mathematics and Informatics

ISIT - 2016 IEEE International Symposium on Information Theory

MAC - Workshop Methods and Algorithms for Control

MISSI 2016 - 10th edition of International Conference on Multimedia & Network Information Systems

NCMA 2016 - 8th Workshop on Non-Classical Models of Automata and Applications

PMAA - 9th Intern. Workshop on Parallel Matrix Algorithms and Applications

QI\_MP 2016 - Quantum Information Theory and Mathematical Physics

SSAOS - Summer School on Algebra and Ordered Sets

SSDSSE 2016 - Letná škola Dependable Software Systems Engineering

SSRA XL - Summer Symposium in Real Analysis XL

TQC - Theory of Quantum Computation, Communication and Cryptography

UDT - 5th International Conference on Uniform Distribution Theory

WkCryptology - Cryptology Workshop

WkEABRT - Workshop on effect algebras, Boolean algebras and related topics

WkSIPQCrypt - Workshop on Secure Implementation of Post-Quantum Cryptography