**Matematický ústav SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2015**   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
Bratislava   
január 2016

**Obsah osnovy Správy o činnosti organizácie SAV za rok 2015**

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**1. Základné údaje o organizácii**

**1.1. Kontaktné údaje**   
   
**Názov:** [Matematický ústav SAV](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=27)   
**Riaditeľ:** [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369)   
**Zástupca riaditeľa:** [prof. RNDr. Anatolij Dvurečenskij, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2372)   
**Vedecký tajomník:** neuvedený   
**Predseda vedeckej rady:** [doc. RNDr. Ľubica Holá, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2378)   
**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)   
[RNDr. Imrich Vrťo, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5729)

 [**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** | 74 | 45 | 29 | 4 | 3 | 60 | 45,78 | 32,18 |
| **Vedeckí pracovníci** | 49 | 40 | 9 | 4 | 1 | 35 | 29,28 | 29,28 |
| **Odborní pracovníci VŠ** | 7 | 2 | 5 | 0 | 1 | 7 | 4,05 | 2,9 |
| **Odborní pracovníci ÚS** | 14 | 3 | 11 | 0 | 0 | 14 | 10,3 | 0 |
| **Ostatní pracovníci** | 4 | 0 | 4 | 0 | 1 | 4 | 2,15 | 0 |

*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (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 31.12.2015 (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 31.12.2015)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **IIa.** | **IIb.** |
| **Muži** | 11 | 30 | 8 | 13 | 11 | 12 | 17 |
| **Ženy** | 2 | 7 | 0 | 3 | 2 | 3 | 4 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | **31-35** | **36-40** | **41-45** | **46-50** | **51-55** | **56-60** | **61-65** | **> 65** |
| **Muži** | 1 | 1 | 6 | 3 | 2 | 3 | 5 | 3 | 7 |
| **Ženy** | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
| **Muži** | 53,0 | 52,8 | 53,0 |
| **Ženy** | 51,4 | 49,0 | 51,0 |
| **Spolu** | 52,4 | 52,1 | 52,6 |

**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 dizertačnej práce Ing. Igora Mračku, PhD.

V rámci Týždňa vedy sme mali 7. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach, Ružomberku, Liptovskom Hrádku a Liptovskom Jáne. Pre veľký záujem z bratislavských gymnázií sme museli robiť paralelné sekcie.

V 2015 prof. A. Dvurečenskij mal prednášku pre žiakov pezinskej základnej školy v rámci spoločného projektu SAV.

V r. 2015 pokračovala druhým rokom Mgr. Andrea Zemánková, PhD. v plnení úloh v rámci prestížneho štipendijného programu Štipendium SAV pre mladých odborníkov, čo pôsobili dlhšie v zahraničí. Toto štipendium získali len traja.

V r. 2015 Dr. Giselle Monteiro, Brazília, získala štipendium v rámci projektu SASPRO na jeden rok na MÚ SAV. Nástup bude na jar 2016.

V r. 2015 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.

Dňa 9. 12. 2015 si prof. RNDr. Juraj Hromkovič, DrSc. prevzal z rúk ministra zahraničných vecí M. Lajčáka ocenie *Vyslanec dobrej vôle 2015*.

Dňa 24.11.2015 zomrel vo veku 92 rokov prof. RNDr. Ján Jakubík, DrSc., pracovník MÚ SAV, jeden z najvýznamnejších slovenských matematikov.

Časopis Mathematica Slovaca zvýšil impaktový faktor z 0,394 v r. 2012 na 0,409 za r. 2014. Počet zaslaných článkov v r. 2015 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS.

Bratislavský samosprávny kraj v spolupráci so Slovenskou akadémiou vied zorganizovali v mesiacoch máj a jún 2015 cyklus populárno-náučných prednášok odborníkov zo SAV pre školy v zriaďovateľskej pôsobnosti BSK. V rámci tejto série predniesol 21. 5. 2015 K. Nemoga prednášku “Čaro matematiky, Bratislava v číslach, kde všade je matematika? Potrebujeme ju?“

Dohodou medzi Matematickým a Geografickým ústavom SAV došlo od 1. 4. 2015 ku priestorovej a personálnej delimitácii časti THS, ktorej pracovníci boli do 31. 3. 2015 na 100 percentných úväzkoch na Geografickom ústave SAV.

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Počet domácich projektov riešených v roku 2015

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2015 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Vedecké projekty, ktoré boli   r. 2015 financované VEGA** | 14 | 3 | 73665 | 73665 | 2000 |
| **2. Projekty, ktoré boli r. 2015   financované APVV** | 2 | 1 | 75463 | 54612 | 9106 |
| **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.)** | 2 | 0 | 17160 | 17160 | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Počet návrhov domácich projektov podaných v roku 2015

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2015** | - | 4 | 3 |
| **2. Projekty výziev OP ŠF**  **podané r. 2015** | Bratislava |  |  |
| Regióny |  |  |

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2015**

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2015 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Projekty 7. Rámcového   programu EÚ** | 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** | 2 | 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 2015**

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

|  |  |  |
| --- | --- | --- |
|  | **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 má zámer zúčastniť sa riešenia projektov financovaných zo štrukturálnych fondov v oblasti bezpečnosti a globálnych rizík.

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

**2.3.1. Základný výskum**

**Topológia rovnomernej konvergencie a Čechova-Stoneova kompaktifikácia**

V článku sa skúma hustota topológie rovnomernej konvergencie na priestore reálne-hodnotových spojitých funkcií na úplne regulárnom priestore X. Ukazuje sa, že táto hustota hrá kľúčovú úlohu pre viaceré otázky týkajúce sa kardinálnych invariantov na rôznych topológiách na priestore spojitých funkcií. Topológia rovnomernej konvergencia je dnes už klasickým pojmom a pojem hustoty sa dá považovať za jeden zo základných pojmov v topológii, dokonca je významný aj v analýze. Napriek týmto faktorom sa toho veľa o hustote topológie rovnomernej konvergencie vo všeobecnom prípade nevie. V článku sa skúma vzťah tejto hustoty vzhľadom na dva iné kardinálne invarianty. Jedným je váha Čechovej-Stoneovej kompaktifikácie priestoru X a druhým je stupeň kompaktnosti priestoru X. Pre metrizovateľné alebo pseudokompaktné priestory X sa našiel vzťah vo forme vzorca a pre spočítateľne parakompaktný normálny priestor sa našli odhady.

**Autori**: Ľ. Holá, B. Novotný

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

**Referencia**: Ľ. Holá, B. Novotný: Topology of uniform convergence and Čech-Stone compactification, J. Math. Anal. Appl. 424 (2015), 470–474.

**Topology of uniform convergence and Čech-Stone compactification**

In this paper, the density of the topology of uniform convergence on the space of real-valued continuous functions on a completely regular space X is investigated. Apparently, this density plays a crucial role for many questions concerning cardinal invariants on various topologies on the space of continuous functions. Topology of uniform convergence is nowadays a classical notion and the notion of density can be considered as one of the basic notions in topology and is also important in mathematical analysis. Despite these factors, the density of the topology of uniform convergence is not very well known in the general case. In the paper, the relationship of this density to two other cardinal invariants is investigated. One is the weight of the Čech-Stone compactification of X and the other one is the compactness degree of X. For a metrizable or pseudocompact space X a specific formula have been found and for a countably paracompact normal space estimates.

**Authors**: Ľ. Holá, B. Novotný

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

**Reference:** Ľ. Holá, B. Novotný: Topology of uniform convergence and Čech-Stone compactification, J. Math. Anal. Appl. 424 (2015), 470–474.

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**Lexikografické pseudo MV-algebry**

Lexikografická pseudo MV-algebra je algebra, ktorá je izomorfná intervalu v lexikografickom súčine unitálnej lineárne usporiadanej grupe a ľubovoľnou l-grupou. Predstavili sme podmienky, kedy pseudo MV-algebra je lexikografická. Ukázali sme, že kľúčovou podmienkou je existencia lexikografického ideálu, alebo ekvivalentne, situácia, keď algebra môže byť rozštiepená na systém porovnateľných vrstiev indexovaných prvkami intervalu [0,u] v niektorej unitálnej lineárne usporiadanej grupe (H,u). Ukázali sme tiež, že fixujúc unitálnu lineárne usporiadanú grupu (H,u), kategória (H,u)-lexikografických pseudo MV-algebier je kategoriálne ekvivalentná kategórii l-grúp.

**Autor:** A. Dvurečenskij

**Projekty:** APVV-0178-11, grant VEGA 2/0059/12 SAV

**Referencia:** A. Dvurečenskij: Lexicographic Pseudo MV-algebras,J. Appl. Logic **13** (2015), 825–841. DOI: 10.1016/j.jal.2015.10.001

**Lexicographic pseudo MV-algebras**

A lexicographic pseudo MV-algebra is an algebra that is isomorphic to an interval in the lexicographic product of a unital linearly ordered group with an arbitrary l-group. We present conditions when a pseudo MV-algebra is lexicographic. We show that a key condition is the existence of a lexicographic ideal, or equivalently, a case when the algebra can be split into comparable slices indexed by elements of the interval [0, u] of some unital linearly ordered group (H, u). Finally, we show that fixing the unital linearly ordered group (H, u), the category of (H, u)-lexicographic pseudo MV-algebras is categorically equivalent to the category of l-groups.

**Author:** A. Dvurečenskij

**Projects:** APVV-0178-11, grant VEGA 2/0059/12 SAV

**Reference:** A. Dvurečenskij: Lexicographic Pseudo MV-algebras, J. Appl. Logic **13** (2015), 825–841. DOI:10.1016/j.jal.2015.10.001

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**Hraničnosť kvantových konvexných štruktúr**

Jednou z nevyhnutných vlastností matematického popisu fyzikálnych systémov je konvexita. Operačne vyjadruje možnosť náhodne prepínať medzi rôznymi zariadeniami rovnakého typu a je známe, že niektoré dôležité štatistické vlastnosti súborov zariadení, ako napr. rozlíšiteľnosť, sa dajú získať čisto z ich konvexnej štruktúry. V predchádzajúcej práci časti autorov bola zavedená hraničnosť pre vnútorné body konvexných množín, vyjadrená pomocou najexcentrickejšieho rozkladu do konvexnej kombinácie bodov hranice. V článku je dokázané, že pre množiny kvantových zariadení tento rozklad vždy obsahuje hraničné body, ktoré sú najlepšie, resp. najhoršie rozlíšiteľné od daného vnútorného bodu, a že hraničnosť vyjadruje najmenšiu pravdepodobnosť chyby. Pre kvantové kanály je ukázané, že najrozlíšiteľnejší prvok je vždy unitárny kanál. Taktiež sú skúmané niektoré vlastnosti hraničnosti.

**Autori:** Z. Puchala, A. Jenčová (MÚ SAV), M. Sedlák, M. Ziman

**Projekty:** VEGA 2/0059/12, 2/0125/13, APVV-0178-11

**Referencia:** Z. Puchala, A. Jenčová, M. Sedlák, M. Ziman: Exploring boundaries of quantum convex structures: special role of unitary processes, Phys. Rev. A 92 012304 (2015).

**Boundaries of quantum convex structures**

Convexity is one of unavoidable features of mathematical description of physical systems. Operationally, it expresses the ability to switch randomly between different physical devices of the same type and it has been observed previously that some of importnat statistical properties of ensembles of devices, such as distinguishability, can be obtained solely from their convex structure. In a previous work by some of the authors, the concept of boundariness was introduced for interior points of convex sets, expressed by the most excentric decomposition into a convex combination of boundary points. We show that for sets of quantum devices, this decomposition always consits of boundary elements which are best resp. least distinguishable from the given interior point, and that boundariness expresses the smallest possible error probability. For quantum channels, it is shown that the best distinguishable element is always a unitary channel. Some properties of boundariness are also discussed.

**Authors:** Z. Puchala, A. Jenčová (MI SAS), M. Sedlák, M. Ziman

**Projects:** VEGA 2/0059/12, 2/0125/13, APVV-0178-11

**Reference:** Z. Puchala, A. Jenčová, M. Sedlák, M. Ziman: Exploring boundaries of quantum convex structures: special role of unitary processes, Phys. Rev. A 92 012304 (2015).

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**Operácie na samo-overujúcich konečných automatoch**

Skúmali sme zložitosť regulárnych operácií na jazykoch reprezentovaných samo-overujúcimi automatmi. Získali sme tesné hranice pre komplementy, prieniky, zjednotenia, rozdiely, symetrické rozdiely, ľavé a pravé kvocienty a asymptotickú tesnú hranicu pre zreťazenie. Aby sme dokázalo tesnosť, použili sme binárnu abecedu v prípade boolovských operácií a abecedy, ktorá exponenciálne rastie pre ostatné operácie. Tiež sme dokázali exponenciálnu dolnú hranicu pre tieto operácie použijúc fixovanú abecedu.

**Authori:** J. Jirásek, G. Jirásková (MÚ SAV), A. Szabari

**Projekty:** VEGA 2/0084/15, VEGA 1/0142/15

**Referencia:** J. Jirásek, G. Jirásková, A. Szabari:Operations on self-verifying finite automata. In: Lev D. Beklemishev and Daniil V. Musatov (eds.) CSR 2015. Springer (2015) LNCS, vol. 9139, pp. 231–261.

**Operations on self-verifying finite automata**

We investigate the complexity of regular operations on languages represented by self-verifying automata. We get the tight bounds for complement, intersection, union, difference, symmetric difference, reversal, star, left and right quotients, and asymptotically tight bound for concatenation. To prove tightness, we use a binary alphabet in the case of boolean operations and reversal, and an alphabet that grows exponentially for the remaining operations. However, we also provide exponential lower bounds for these operations using a fixed alphabet.

**Authors:** J. Jirásek, G. Jirásková (MI SAS), A. Szabari

**Projects:** VEGA 2/0084/15, VEGA 1/0142/15

**Reference:** J. Jirásek, G. Jirásková, A. Szabari: Operations on self-verifying finite automata. In: Lev D. Beklemishev and Daniil V. Musatov (eds.) CSR 2015. Springer (2015) LNCS, vol. 9139, pp. 231–261.

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**2.3.2. Aplikačný typ**

**Odtlakovanie plynového rezervoáru cez potrubie ľubovoľnej dĺžky**

Odtlakovanie plynového rezervoáru resp. potrubného dvora kompresora cez potrubie je štandardný technický proces. Napriek tomu bol dobre popísaný iba pre situácie, kedy odtlakovacie potrubie je buď veľmi krátke alebo, naopak, veľmi dlhé. Zaoberali sme sa preto modelom vypúšťania plynu z rezervoáru cez potrubie ľubovoľnej dĺžky. Odvodili sme zjednodušený model kritického a podkritického prúdenia a jeho explicitné aproximácie. Model sme overili pomocou Frösselovho vzťahu a porovnali ho so známymi približnými modelmi pre odtlakovanie rezervoáru cez veľmi dlhé a veľmi krátke potrubie. Nakoniec sme model overili aj na reálnych meraniach. Model bol aplikovaný pri riešení praktických úloh určenia straty plynu počas procesov odtlakovania a prefukovania potrubných dvorov kompresorov rôznych typov.

**Autori**: M. Bayer, R. Hajossy, I. Mračka, K. Nemoga, P. Somora, A. Sedliak, T. Sedláková, T. Žáčik (vedúci)

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

**Referencia**: R. Hajossy, I. Mračka, T. Žáčik: Depressurization of a gas reservoir by a pipe of arbitrary length. In: PSIG 2015, May 12–15, New Orleans, Louisiana, USA.

**Depressurization of a gas reservoir by a pipe of arbitrary length**

Depressurization of a gas reservoir or a compressor pipe yard is a frequently occurring process. In spite of this, the process was well described only in the case of a very short or a very long blow-off pipe. Therefore we dealt with a model of depressurization of reservoir through the pipe of an arbitrary length. We derived a simplified model of sonic and subsonic flow and its explicit approximation. The proposed model was verified by Frössel's formula and compared with known approximate models of reservoir depressurization through very long and very short pipes. Finally, we verified the model using real measurements. The model was applied to solve practical problems – it was necessary to determine the loss of technical gas during blow-off and blow-through procedures of pipe yards of real compressors.

**Authors**: M. Bayer, R. Hajossy, I. Mračka, K. Nemoga, P. Somora, A. Sedliak, T. Sedláková, T. Žáčik (head)

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

**Reference**: R. Hajossy, I. Mračka, T. Žáčik: Depressurization of a gas reservoir by a pipe of arbitrary length. In: PSIG 2015, May 12–15, New Orleans, Louisiana, USA.

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**2.3.3. Medzinárodné vedecké projekty**

**Projekcie v synaptických algebrách**

P. Halmos (1969) študoval dva projekčné operatory P a Q na Hilbertovom priestore v tzv. generic pozíicii a dokázal základnú vetu, dnes známu ako CS-decomposition theorem, ktorá vyjadruje Q v termínoch P a dvoch pozitívnych kontrakcií C a S, tzv kosínusový a sínusový operátor pre Q vzhľadom na P. V článku [1] sme dokázali zovšeobecnenie Halmosovej vety pre dve projekcie v rámci tzv. synaptickej algebry, ktorú zaviedol Foulis (2010) ako abstrakciu čiastočne usporiadanej Jordanovej algebry všetkých ohraničených hermitovských operátorov na Hilbertovom priestore. Pracujúc iba v rámci synaptickej algebry, museli sme metódy založené na Hilbertovom priestore a operátorových maticiach nahradiť inými metódami, založenými najmä na Peircovom rozklade. V článku [2] sme ukázali, že verzia Halmosovej CS-dekompozičnej vety platí aj pre prípad projekcie p a efektu e, a zaviedli sme a študovali aj dvoch možných kandidátov na komutátor pre p a e.

**Autori:** S. Pulmannová (MÚ SAV), A. Jenčová (MÚ SAV), D.J. Foulis (Univ. Massachussett, USA)

**Projekty:** Grant APVV-0178-11, VEGA 2/0059/12

**Referencie:**

 [1] D.J. Foulis, A. Jenčová, S. Pulmannová: Two projections in a synaptic algebra, Linear Algebra and its Applications 478 (2015), 162—187.

 [2] D.J. Foulis, A. Jenčová, S. Pulmannová: A projection and an effect in a synaptic algebra, Linear Algebra and its Applications 485 (2015), 417—441.

**Projections in synaptic algebras**

P. Halmos (1969) studied two projections P and Q on a Hilbert space in so-called generic position, and proved a basic theorem, now called the CS-decomposition theorem, that expresses Q in terms P and positive contraction operators C and S, called the cosine and sine operators, respectively, for Q with respect to P. In [1], we proved a generalization

of the CS-decomposition theorem in the setting of a so-called synaptic algebra, which was introduced by Foulis (2010) as an abstract version of the partially ordered Jordan algebra of all bounded Hermitian operators on a Hilbert space. Working only with a synaptic algebra, we had to forgo both Hilbert space and the operator matrix calculus, and use other methods, based mainly on the Peirce decomposition. In [2], we have shown that a version of Halmos's

CS-decomposition theorem applies also for a projection p and an effect e in a synaptic algebra, and we introduced and studied two candidates for a commutator projection for p and e.

**Authors:** S. Pulmannová (MÚ SAV), A. Jenčová (MÚ SAV), D.J. Foulis (Univ. Massachussett, USA)

**Projects:** Grant APVV-0178-11, VEGA 2/0059/12

**References:**

 [1] D.J. Foulis, A. Jenčová, S. Pulmannová: Two projections in a synaptic algebra, Linear Algebra and its Applications 478 (2015), 162—187.

 [2] D.J. Foulis, A. Jenčová, S. Pulmannová: A projection and an effect in a synaptic algebra, Linear Algebra and its Applications 485 (2015), 417—441.

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**Zväzy s najmenšou množinou agregačných funkcií**

Agregácia reprezentuje proces kombinujúci niekoľko hodnôt do jednej reprezentatívnej hodnoty, pričom numerická funkcia uskutočňujúca tento proces sa nazýva agregačnou funkciou. V nedávnej dobe bol pojem agregačnej funkcie rozšírený a intenzívne študovaný v rámci všeobecnejších štruktúr ako je množina reálnych čísel, a to konkrétne na ohraničených zväzoch. Je dobre známe, že pre ľubovoľný ohraničený zväz, množina polynómov zachovávajúcich univerzálne ohraničenia tvorí podmnožinu množiny všetkých agregačných funkcií. Hlavným cieľom bolo charakterizovať všetky konečné zväzy, pre ktoré spomínané dve množiny splývajú, t.j. za akých podmienok je množina všetkých agregačných funkcií najmenšia možná. Tieto zväzy boli úplne popísané pomocou ich reflexívnych, symetrických a kompatibilných relácií, zvyčajne označovaných ako tolerancie. Bolo dokázané, že konečný zväz obsahuje iba vyššie spomínané typy polynómov ako svoje agregačné funkcie práve vtedy, keď má iba triviálne tolerancie.

**Autori:** R. Halaš (Univ. Palackého, Olomouc, ČR), J. Pócs (MÚ SAV)

**Projekty:** VEGA 2/0028/13, ESF Fond CZ.1.07/2.3.00/30.0041

**Referencia:** R. Halaš, J. Pócs: On lattices with a smallest set of aggregation functions, Information Sciences 325 (2015), 316–323.

**On lattices with a smallest set of aggregation functions**

Aggregation represents the process of combining several values into single representative one, while the numerical function performing this process is called an aggregation function. Recently, the notion of aggregation function was extended and intensively studied within more general structures than the set of real numbers, on bounded lattices in particular. Given a bounded lattice, it is well known that the set of all polynomial functions preserving the universal bounds forms a natural subclass of the set of all aggregation functions. The main aim was to characterize all finite lattices, for which these two classes coincide, i.e., when the set of all aggregation functions is as small as possible. These lattices are shown to be completely determined by their reflexive, symmetric and compatible binary relations, commonly referred to as tolerances. Particularly, it has been proven that a finite lattice contains precisely the above mentioned polynomials as its aggregation function if and only if, it has only the trivial tolerances.

**Authors:** R. Halaš (Univ. Palackého, Olomouc, ČR), J. Pócs (MÚ SAV)

**Projects:** VEGA 2/0028/13, ESF Fund CZ.1.07/2.3.00/30.0041

**Reference:** R. Halaš, J. Pócs: On lattices with a smallest set of aggregation functions, Information Sciences 325 (2015), 316–323.

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**Neistota Heydemannovej korekcie: praktická limita optickej kvadratúrnej homodynnej interferometrie**

Hoci je Heydemannova korekcia široko používaná pre demoduláciu fázy signálu kvadratúrneho homodynného interferometra a signálu dekódera, príslušná neistota merania sa uvažuje len v niekoľkých publikáciách. Neistota Heydemannovej korekcie sa náležite určila prvýkrát v tejto práci. Naviac, v prípadoch, kde je počet meraní použitých na fit dostatočne veľký sa odvodil nový, jednoduchý analytický výraz pre vyjadrenie neistoty určenia fázy. Predstavuje praktickú limitu optickej kvadratúrne j interferometrie, ktorá sa dosiahla aj experimentálne. Pomocou vylepšenej procedúry na fitovanie elipsy, ktorá využíva linearizovanie nelineárnych podmienok, sa skúmalo, aký vplyv má skutočnosť, že namiesto geometrickej vzdialenosti sa minimalizovala algebrická vzdialenosť. Pomocou tejto fitovacej procedúry sa získali lineárne nevychýlené odhady s minimálnym rozptylom t.j. optimálne odhady. Navyše tieto odhady sa dajú bezprostredne použiť na určenie neistoty stanovenia fáze pomocou zákona o šírení neistôt. Získané analytické vyjadrenie je nové a predstavuje dolnú hranicu neistoty určenia fázy. Toto je takisto významný výsledok práce. Monte Carlo simulácie potvrdzujú správnosť našich procedúr.

**Autori:** R. Köning (Physikalisch-Technische Bundesanstalt, Braunschweig, Germany), G. Wimmer (MÚ SAV), V. Witkovský (ÚM SAV)

**Projekty:** grant APVV-0096-10 a granty VEGA 2/0047/15, VEGA 2/0043/13

**Referencia:** R. Köning, G. Wimmer, V. Witkovský: The statistical uncertainty of the Heydemann correction: a practical limit of optical quadrature homodyne interferometry, Measurement Science and Technology **26** (2015), 084004.), doi:10.1088/0957-0233/26/8/084004

**The statistical uncertainty of the Heydemann correction: a practical limit of optical quadrature homodyne interferometry**

Although the Heydemann correction is widely used to demodulate the phase of quadrature homodyne interferometer and encoder signals, the related measurement uncertainty is considered only in a few publications. The statistical uncertainty of the Heydemann correction has been determined properly for the first time. Furthermore, for cases in which a number of points used in the fit is sufficiently large, a new, simple, analytic expression for the statistical uncertainty of the phase is derived. It represents a practical limit of optical quadrature displacement interferometry, which already has been reached experimentally. An improved ellipse fitting procedure using linearized nonlinear constraints was used to determine the influence of minimizing the algebraic distance instead of the geometric one. It provides unbiased linear estimators of the parameters exhibiting the minimal statistical uncertainty i.e. optimal estimators. In addition, for this method, the statistical uncertainty of the phase can be determined exactly using the error propagation law without any difficulties. The analytic expression provided here is new and represents a lower limit of the statistical uncertainty of the phase. It is also a major finding of the work. The Monte Carlo simulations do justify our procedures.

**Authors:** R. Köning (Physikalisch-Technische Bundesanstalt, Braunschweig, Germany), G. Wimmer (MÚ SAV), V. Witkovský (ÚM SAV)

**Projects:** grant APVV-0096-10 a granty VEGA 2/0047/15, VEGA 2/0043/13

**References:** R. Köning, G. Wimmer, V. Witkovský: The statistical uncertainty of the Heydemann correction: a practical limit of optical quadrature homodyne interferometry, Measurement Science and Technology **26** (2015), 084004. ), doi:10.1088/0957-0233/26/8/084004

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**Počet tried reálnych abelovských polí**

Problém určenia počtu tried (class number) okruhov celých čísel v algebrických číselných poliach je pôvodne motivovaný úsilím dokázať veľkú Fermatovu vetu využívajúc kánonický rozklad elementov. Hlavný problém takého dôkazu spočíva v skutočnosti, že takýto rozklad nie je jednoznačne určený. Teda, takýto prístup vyžaduje odvodenie ďalších podmienok na dosiahnutie jednoznačnosti. Pri histórii riešenia tohto problému bol nájdený jeho vzťah s deliteľnosťou Bernoulliho čísel. Dosiahnutý výsledok je odvodenie podmienky, ktorá zaručuje nedeliteľnosť prvého faktora počtu tried určitými typmi prvočísel, ktoré sú obsiahnuté v aritmetickej postupnosti.

**Autori:** S. Jakubec (MÚ SAV), M. Paštéka (MÚ SAV), A. Schinzel (MÚ PAN, Warszawa, Poland)

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

**Referencia:** S. Jakubec, M. Paštéka, A. Schinzel: Class number of real Abelian fields. Journal of Number Theory 148 (2015), 365–371.

**Class number of real Abelian fields**

The problem of class number of rings of integers in algebraic number fields is originally motivated by the effort to prove Fermat Last Theorem using the property of canonical decompositions of its elements. The principal problems of such proof consist in the fact that these decompositions are not necessary unique. Thus this research leads to the question to derive some conditions providing the uniqueness. During the history of this research the connection with the divisibility of Bernoulli's numbers was discovered. The achieved result is to derive a sufficient condition which guaranties non divisibility of first factor of class number by certain type of primes from arithmetic progressions.

**Authors:** S. Jakubec (MÚ SAV), M. Paštéka (MÚ SAV), A. Schinzel (MÚ PAN, Warszawa, Poland)

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

**Reference:** S. Jakubec, M. Paštéka, A. Schinzel: Class number of real Abelian fields. Journal of Number Theory 148 (2015), 365–371.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |  |  |
| --- | --- | --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **A  Počet v r. 2015/ doplnky z r. 2014** | **B  Počet v r. 2015/ doplnky z r. 2014** | **C  Počet v r. 2015/ doplnky z r. 2014** |
| **1. Vedecké monografie vydané v domácich vydavateľstvách**  (AAB, ABB) | **1 / 0** | **0 / 0** | **0 / 0** |
| **2. Vedecké monografie vydané v zahraničných vydavateľstvách**  (AAA, ABA) | **1 / 0** | **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) | **5 / 0** | **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 a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus**  (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB) | **54 / 5** | **0 / 0** | **0 / 0** |
| **10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS**  (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB) | **4 / 0** | **0 / 0** | **0 / 0** |
| **11. Vedecké a odborné práce v zborníkoch** |  | | |
| **a/ recenzované práce a publikované pozvané príspevky**  (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED) | **10 / 0** | **0 / 0** | **0 / 0** |
| **b/ nerecenzované práce**  (BEE, BEF, CEC, CED) | **0 / 0** | **0 / 0** | **0 / 0** |
| **12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **2** | **0** | **0** |
| **13. Ostatné vydané periodiká** | **1** | **0** | **0** |
| **14. Vydané alebo editované zborníky z vedeckých podujatí**  (FAI) | **0 / 0** | **0 / 0** | **0 / 0** |
| **15. Práce uverejnené na internete**  (GHG) | **3 / 0** | **0 / 0** | **0 / 0** |
| **16. Preklady vedeckých a odborných textov**  (EAJ) | **0 / 0** | **0 / 0** | **0 / 0** |
| **17. Heslá v *Encyklopédii Beliana* a iných encyklopédiách a terminologických slovníkoch**  (BDA, BDB) | **0 / 0** | **0 / 0** | **0 / 0** |

*A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora   
B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV   
C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)* Tabuľka 2f Ohlasy

|  |  |  |
| --- | --- | --- |
| **OHLASY** | **A  Počet v r. 2014/ doplnky z r. 2013** | **B  Počet v r. 2014/ doplnky z r. 2013** |
| **Citácie vo WoS Core Collection (1.1, 2.1)** | 564 / 108 | 2 / 6 |
| **Citácie v SCOPUS (1.2, 2.2)** | 136 / 76 | 0 / 2 |
| **Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)** | 0 / 1 | 0 / 0 |
| **Citácie v publikáciách neregistrovaných v citačných   indexoch (3, 4, 3.1, 4.1)** | 101 / 11 | 2 / 0 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 | 0 / 0 |

*A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV   
B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)*

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2g Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 46 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 2 |

**Účasť a vedenie seminárov**

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

**vedúci:** R. Frič

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

**Spojité štruktúry v reálnej analýze**

**vedúci:** J. Borsík

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

**Seminár z teoretickej informatiky**

**vedúci:** R. Královič (FMFI UK)

**účasť:** S. Dobrev, I. Vrťo

**Seminár z kvantových logík**

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

**referáty:** R. Frič, M. Plávala

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

**vedúci:** L. Bukovský (UPJŠ)

**referáty:** P. Eliaš (8x), M. Repický (3x)

**Seminár z analýzy a aplikácií na PF UPJŠ**

**vedúci:** J. Haluška, O. Hutník (UPJŠ)

**referáty:** P. Eliaš, T. Gregor (2x), J. Haluška

**Seminár z usporiadaných štruktúr na PF UPJŠ**

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

**referáty:** E. Halušková (5x), M. Ploščica (4x), J. Pócs (2x)

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

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

**účastník:** J. Pócs

**Seminár z teórie pravdepodobnosti a matematickej štatistiky**

**vedúci:** A. Pázman (FMFI UK)

**referáty:** M. Grendár

**Seminár z aplikovanej matematiky**

**vedúci:** K. Cechlárová (PF UPJŠ, Košice)

**referáty:** M. Grendár

**Set-Valued Analysis**

**vedúci:** Ľ. Holá

**referáty:** B. Novotný (4x)

**Seminár z teórie množín**

**vedúci:** L. Bukovský (PF UPJŠ, Košice)

**referáty:** M. Repický (5x)

**Seminár z teórie kategórií na SvF STU Bratislava**

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

**účastník:** A. Jenčová

**Seminár z funkcionálnej analýzy**

**vedúci:** S. Pulmannová

**referáty:** A. Jenčová (10x)

**Seminár z algebraickej a diferenciálnej topológie**

**vedúci:** J. Korbaš (FMFI UK)

**referáty:** J. Korbaš

**Oberseminar Topologie (Univ. Bonn)**

**vedúci:** T. Macko

**Bonn Research Seminar Topology (Univ. Bonn)**

**vedúci:** Prof. Boedigheimer, Prof. Lueck, Prof. Teichner, Prof. Schwede (Univ. Bonn)

**referáty:** T. Macko

**Seminar Arbeitsgruppe Lueck (Univ. Bonn)**

**vedúci:** Prof. Lueck (Univ. Bonn)

**referáty:** T. Macko (2x)

**RCQI seminár (FÚ SAV)**

**vedúci:** M. Ziman (FÚ SAV)

**referáty:** M. Plávala

**Seminár z teórie čísel**

**vedúci:** O. Strauch

**referáty:** O. Strauch (8x)

**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**

 **BORSÍK, J.**: *Points of some generalizations of continuity*, XXIX International Summer Conference on Real Functions Theory, Niedzica, Poland, 6. - 11. 9. 2015.

 **GRENDÁR, M.**: *Regression: experimental vs observational data*, Teorie a praxe statistického zpracování dat, Pusté Žibřidovice, 26. - 28. 11. 2015.

 **JIRÁSKOVÁ, G.**: *On the boundary of regular languages*, Brzozowski 80; Waterloo, Canada, 24. 6. 2015.

 **KOCHOL, M.**: *Splitting Formulas for Tutte-Grothendiek Invariants on Graphs*, Workshop on New Directions for the Tutte Polynomial: Extensions, Interrelations, and Applications, Royal Holloway University of London, UK, 11-14.7.2015.

 **MACKO, T.**: The Borel Conjecture on aspherical manifolds, Glances at Manifolds, Krakow, July 2015.

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

 **HALUŠKA, J.**: Prednáška o možnosti aplikácie matematickej teórie farby pri konštrukcii televízorov, seminár Katedry informatiky FMFI UK (vedúci: A. Ferko, Z. Černeková), Bratislava, 2. 11. 2015.

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

 BEČKA, M.— FLATZ, M.— OKŠA, G.— **VAJTERŠIC, M.**: *NMF and SVD: Two cases of parallelization*, Lawrence Berkeley National Laboratory, Berkeley, USA, 2. 11. 2015.

 **HALUŠKA, J.**: *Obzor Dobrakovovho integrovania*, MÚ AVČR, Praha, 13. - 17. 7. 2015.

 **HOLÁ, Ľ.**: *Topological properties of the graph and fine topologies*, Mathematical Institute, University of Malta, Seminár, Malta, 20. 11. 2015.

 **HOLÁ, Ľ.**, KWIECINSKA, G.: *Topological convergence of set-valued maps and topological convergence of graphs*, Mathematical Institute, Akademia Pomorska, Slupsk, 15. 10. 2015.

 **PULMANNOVÁ, S.**: *Two projections on synaptic algebras*, University of Malta, Seminár, Malta, 13. 11. 2015.

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

 **BEČKA, M.— OKŠA, G.**: *New Approach to Local Computations in the Parallel One–Sided Jacobi SVD Algorithm*, PPAM 2015, Krakow, Poľsko, 6. - 9. 9. 2015.

 **BORSÍK, J.**: *Some classes of functions between continuous and quasicontinuous functions*, 4th International Eurasian Conference on Mathematical Sciences and Applications, Athens, Greece, 31. 8. - 3. 9. 2015.

 BUTKA, P.— PÓCSOVÁ, J.— **PÓCS, J.**: *Reduction Ratio for GOSCL constrained by Moore co-families on Object Set*, IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMI 2015), Herľany, Slovakia, 22. - 24. 1. 2015.

 BUTKA, P.— PÓCSOVÁ, J.— **PÓCS, J.**: *On intent stability index for One-Sided Concept Lattices*, 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2015), Timisoara, Romania, 21. - 23. 5. 2015.

 BUTKA, P.— PÓCSOVÁ, J.— **PÓCS, J.**: *Experimental Study on Reduction of One-Sided Concept Lattice Based on Subsets Quality Measure*, 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2015), Timisoara, Romania, 21. - 23. 5. 2015.

 **ČEVOROVÁ, K.**: *Square on ideal, closed and free languages*, Descriptional Complexity of Formal Systems 2015, Waterloo, Canada, 24. - 27. 6. 2015.

 FABŠIČ, T—GROŠEK, O.— **NEMOGA, K.**—ZAJAC, P.: *On Constructing Invertible Circulant Binary n x n - Matrices with n2/2 Ones*, Central European Conference on Cryptology, Klagenfurt, Austria, 8. - 10. 7. 2015.

 **FRIČ, R.**: *Notes on real functions in generalized probability*, XXIX International Summer Conference on Real Functions Theory, Niedzica, Poland, 6. - 11. 9. 2015.

 **FRIČ, R.** — JEDINÁK, D.: *Invariants around us*, Mathematics in Nature and Arts, Nowy Sacz, 14. - 15. 5. 2015.

 **GREGOR, T.**: *Multi-polar Fourier series*, XXIX International Summer Conference on Real Functions Theory, Niedzica, Poľsko, 6. - 11. 9. 2015.

 **GRENDÁR, M.** — ŠPITALSKÝ, V.: *Contingency tables and the PP algorithm*, ODAM, Olomouc, 20. - 22. 5. 2015.

 **HAJOSSY, R.** — **MRAČKA, I.** — **ŽÁČIK, T.**: *Depressurization of a gas reservoir by a pipe of arbitrary length*, PSIG Annual Meeting held in New Orleans, Louisiana, USA, 12. - 15. 5. 2015.

 **HALUŠKA, J.**: *On the topology on some vector fields inspired with the polar HSV-RGB theory of colour*, 29. Int. Summer Conf. on real funtions theory,Niedica, 6-11.2015.

 **HALUŠKOVÁ, E.**: *Monounary algebras with easy direct limits*, AAA 89, Drážďany, 26. 2. - 2. 3. 2015.

 **HALUŠKOVÁ, E.**: *On uniform direct limit systems of algebras*, AALCS 19, Zakopane, 11. - 15. 3. 2015.

 **HALUŠKOVÁ, E.**: *Monounary algebras with SEKP*, SSAOS 2015, Srní, ČR, 28. 8. - 3. 9. 2015.

 **HOLÁ, Ľ.** — HOLÝ, D.: *Minimal usco and minimal cusco maps*, ICRAPAM 2015 - International Conference on Recent Advances in Pure and Applied Mathematics, Istanbul, 3. - 6. 6. 2015.

 **HOLÁ, Ľ.**, **NOVOTNÝ, B.**: *Cardinal invariants of the Vietoris topology on the space of minimal cusco maps*, International Eurasian Conference on Mathematical Sciences and Applications, Athens, 31. 8. - 3. 9. 2015.

 **HOLÁ, Ľ.** — HOLÝ, D.: *Minimal usco and minimal cusco maps and compactness*, International Eurasian Conference on Mathematical Sciences and Applications, Athens, 31. 8. - 3. 9. 2015.

 **JENČOVÁ, A.**: *Optimal input states for discrimination of quantum channels (poster)*, Central European Quantum Information Processing Workshop, Telč, ČR, 18. - 21. 6. 2015.

 **JENČOVÁ, A.**: *Characterization of sufficient quantum channels*, BIRS workshop Beyond I.I.D. in information theory, Banff, Alberta, Canada, 5. - 10. 7. 2015.

 **JENČOVÁ, A.**: *A-extreme points of generalized state spaces*, Noncommutative Workshop, Krakow, Poland, 20.-25. 9. 2015.

 JIRÁSEK, J. — **JIRÁSKOVÁ, G.**: The boundary of prefix-free languages, DLT 2015, Liverpool, Anglicko, 27. - 30. 7. 2015.

 JIRÁSEK, J. JR. — **JIRÁSKOVÁ, G.** — SZABARI, A.: *Operations on self-verifying automata*, CSR 2015, Listvyanka, Rusko, 13. - 17. 7. 2015.

 KOŠČOVÁ, M.— MAČUTEK, J.— **WIMMER, G.**: *Partial summations divide discrete distributions into two classes*, PROBASTAT 2015, Smolenice, 29. 6. - 3. 7.2015.

 **MACKO, T.**: *The additivity of the rho-invariant*, Winter School in Geometry and Physics, Srní, ČR, 17. - 24. 1. 2015.

 **MACKO, T.**: *The additivity of the rho-invariant*, Glances at Manifolds, Krakow, 17. - 20. 7. 2015.

 **MACKO, T.**: *The total surgery obstruction (výveska)*, Panorama of Mathematics, Bonn, 21. - 23. 10. 2015.

 **MALÍČKOVÁ, M.** — **WIMMER, G.**: *Testing flatness*, ODAM 2015, Olomouc, 20. - 25. 5. 2015.

 **MLYNÁRČIK, P.**: *Complement on Free and Ideal Languages*, Descriptional Complexity of Formal Systems 2015, Waterloo, Canada, 24. - 27. 6. 2015.

 **NOVOTNÝ, B.** — **HOLÁ, Ľ.**: *Bornologies and Function Spaces*, 2nd International Conference on Recent Advances in Pure and Applied Mathematics, Istanbul – Turecko, 1. - 8. 6. 2015.

 **NOVOTNÝ, B.** — **HOLÁ, Ľ.**: *Minimal CUSCO maps and cardinal invariants*, XXIX International Summer Conference on Real Functions Theory, Niedzica – Poľsko, 6. - 11. 9. 2015.

 **PALMOVSKÝ, M.** — ŠEBEJ, J.: *Star-complement-star on prefix-free languages*, Descriptional Complexity of Formal Systems 2015, Waterloo, Canada, 24. - 27. 6. 2015.

 **PÓCS, J.**: *Fuzzy concept analysis with preference relations*, 7th European Symposium on Computational Intelligence and Mathematics (ESCIM 2015), Cadiz, Spain, 7. - 10. 10. 2015.

 **PULMANNOVÁ, S.**: *MV-pairs and state operators*, Topology, Algebra and Categories in Logic, TACL 2015, Ischia, Italy, 20. - 27. 6. 2015.

 **PULMANNOVÁ, S.**: *Ideals and congruences in generalized pseudoeffect algebras*, The Summer School on General Algebra and Ordered Sets, SSAOS 2015, 29. 8.- 4. 9. 2015, Srní, ČR.

 **STRAUCH, O.**: *Distribution functions of sequences*, 22nd Czech and Slovak Internacional Conference on Number Theory, Liptovský Ján, 30. 8. - 4. 9. 2015.

 **VAJTERŠIC, M.** — DI STOLFO, P.: *Fast algorithm for the fourth-order elliptic problem based on orthogonal matrix decomposition*, 11th International Conference on Parallel Processing and Applied Mathematics (PPAM 2015), Krakow, Poland, 6. - 9. 9.2015.

 **WIMMER, G.**: Modely kolektívneho rizika, STAKAN 2015, Konference STAtističtí KANtoři, Hotel Čarták, Soláň, ČR, 9. - 11. 11.2015

 **WIMMER, G.** — WITKOVSKÝ, V. — KÖNING, R.: *An algorithm for demodulation of correlated quadrature interferometer signals*, MEASUREMENT 2015, Smolenice, 25. - 28. 5. 2015.

 WITKOVSKÝ, V. — **WIMMER, G.**: *Exact statistical inference by using numerical FFT inversion of the characteristic function*, ODAM 2015, Olomouc, 20. - 25. 5. 2015.

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

 **GREGOR, T.**: *Fourier series as multi-stimuli and operations with them*, 16. Konferencia košických matematikov, Herľany, 25. - 28. 3. 2015.

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

 FRIČ, R.: Sčítať či odčítať, UMB v Banskej Bystrici, Aká si mi krásna, Banská Bystrica, 3. 3. 2015.

 FRIČ, R.: Poznámky o súčinoch D-posetov, MÚ SAV, Seminár z kvantových štruktúr, Bratislava, 22. 9. 2015.

 FRIČ, R.: Quantum and fuzzy structures for probability foundations, MFF UK v Prahe, Seminár Katedry softvérového inžinierstva, Praha, 2. 12. 2015.

 FRIČ, R.: Relationships between integral theory and probability, MÚ AV ČR, Seminár o diferenciálnych rovniciach a a teórii integrálu, Praha, 3. - 4. 12. 2015.

 FRIČ, R.: Categorical approach to probability, University of Latvia, Seminar "Many valued mathematical structures", Riga, 9. 12. 2015.

 GREGOR, T.: Polarizované Fourierove rady, Interný seminár MÚ SAV, d.p. Košice, 19. 3. 2015.

 GREGOR, T.: Zovšeobecnená Einteinova operácia, Seminár z analýzy, ÚMV PF UPJŠ, Košice, 15. 6. 2015.

 GREGOR, T.: Vlnová rovnica a Fourierove rady, Seminár z analýzy, ÚMV PF UPJŠ, Košice, 27. 10. 2015.

 GRENDÁR, M.— ŠPITALSKÝ, V.: Shape-constrained density estimation by Maximum Likelihood, Univerzita Palackého, Olomouc, Seminar of DMAAM, 16. 3. 2015.

 JENČOVÁ, A.: Comparison of noisy quantum channels, Seminar talk, Imperial College, London, 26. 11. 2015.

 JIRÁSKOVÁ, G.: O prvočíslach a Riemannovej hypotéze, Matematický piatok, Opava, Česká republika, 15. 5. 2015.

 MACKO, T.: Algebraic L-theory, Bonn research seminar Topology, Bonn, April 2015.

 MACKO, T.: L-groups via chain complexes I, II, Seminar Arbeitsgruppe Lueck, Bonn, March 2015.

 MACKO, T.: The total surgery obstruction, Trimester program on homotopy theory, Hausdorff Institute of Mathematics, Bonn, August 2015.

 MACKO, T.: The total surgery obstruction, Topology seminar, University Bochum, December 2015.

 MACKO, T.: Fake lens spaces, Riemann Topology Seminar, Goettingen, November 2015.

 MLYNÁRČIK, P.: Jazyky a stroje, Slezská univerzita, Opava, Pátek s matematikou a fyzikou pro středoškoláky, Opava, 15. 5. 2015.

 NEMOGA, K.: Postquantum cryptology, Tel Aviv University, 2. - 7. 5. 2015.

 NEMOGA, K. — ŽÁČIK, T.: Gas Transportation – modelling, optimization, security, KONNECT, Istanbul, 21. – 22. 9. 2015.

 NEMOGA, K. — ŽÁČIK, T.: Leak detection and localization methods, Joint Scientific Workshop TÜBITAK - SAS on Research Cooperation, TÜBITAK , Gebze, Turecko, 14. - 15. 4. 2015.

 NEMOGA, K.: Slovenská asociácia pre Rímsky klub a jej activity v druhom desaťročí 21.storočia, konferencia Rímsky klub a jeho activity v druhom desaťročí 21.storočia, Bratislava, SAV, 24. 9. 2015.

 NEMOGA, K.: Globálne prognózy Rímskeho klubu, Globálna kríza a scenáre budúcnosti, Bratislava, SAV, 25. 11. 2015.

 PLOŠČICA, M.: Critical points for congruence lattices, Rényiho ústav Maďarskej Akadémie Vied, Budapešť, 2. 2. 2015.

 STRAUCH, O.: Rovnomerne rozdelené postupnosti, seminár z Teórie čísel, MÚ SAV, 30.10.2015.

 STRAUCH, O.: Integrovanie pomocou rovnomerne rozdelených postupnotí, seminár "Teória čísel a jej aplikácie", Ostrava - Malenovice, ČR, 11. - 14. 11. 2015.

 STRAUCH, O.: Dôkaz súvislosti množiny distribučných funkcií postupností, seminár "Teória čísel a jej aplikácie", Ostrava - Malenovice, ČR, 11. - 14. 11. 2015.

 VAJTERŠIC, M.: Efficient biharmonic solver based on the splitting principle, Department of Computer Science, University of Haifa, Israel, 15. 4. 2015.

 VINCEKOVÁ, E.: How do preideals define new structures on generalized effect algebras, seminár "Aká si mi krásna" na FPV UMB, Banská Bystrica, 23. 6. 2015.

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

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2015**

**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 2015 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 2h Experti hodnotiaci národné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Dvurečenskij Anatolij | APVV | 3 |
| Frič Roman | VEGA, APVV | 2 |
| Nemoga Karol | APVV | 1 |

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

Počet autorov hesiel: 1

**2.10. Iné informácie k vedeckej činnosti.**

**Ostatné dosiahnuté výsledky:**

 Náš paralelný algoritmus na výpočet SVD sa implementoval na japonskom superpočítači a ukazuje sa byť efektívnejším ako štandartný algoritmus zo známej knižnice ScaLAPACK.

 Okrem toho sme navrhli a otestovali vynechanie výpočtu Gramovej matice a nové dynamické kritérium konvergencie pre lokálne SVD v jednostrannej blokovej Jacobiho metóde. Toto síce vedie k úplnému vynechaniu potreby maticového násobenia, ale celkový čas výpočtu to nezlepší. Napriek tomu tento prístup ešte môže mať potenciál pre verziu s variabilným (malým) blokovým faktorom.

 Boli skúmané maximálne aditívne a maximálne multiplikatívne triedy pre rôzne triedy funkcií.

 Zaoberali sme sa všeobecnými podmienkami postačujúcimi pre jednoznačnú riešiteľnosť okrajovej úlohy pre systémy lineárnych funkcionálnych diferenciálnych rovníc vyššieho rádu. Trieda študovaných rovníc pozostáva najmä z lineárnych rovníc s transformovaným argumentom, integrálno-diferenciálnych rovníc a neutrálnych rovníc.

 Študovali sa grupy, ktoré sú vybavené L-reláciou, kde L je fixované Heytingová algebra. Získali sa popisy L-usporiadaných a L-zväzovo usporiadaných grúp.

 Študovali sa regulárne Gleasonovske miery (konečne aditívne miery, regulárne miery, sigma-aditívne miery) na logike Hilbertovho priestoru z pohľadu zovšeobecnených efektových algebier.

 V poslednej dobe sa ukázal zaujímavý vzťah niektorých dôležitých algebrických a kvantových štruktúr na jednej strane a čiastočne usporiadaných grúp a l-grúp na strane druhej. Takáto situácia vzniká pri popise efektových a pseudo efektových algebier, MV-algebier a pseudo MV-algebier, lineárne usporiadaných pseudo BL-algebier alebo pri konštrukcii kite peudo BL-algebier, kite pseudo efektových algebier.Lexicografické pseudo efektové algebry sú pseudo efektové algebry, ktoré sú intervalom v lexikografickom súčine H x G unitálnej po-grupy (H,u) s po-grupou. Našli sa podmienky, kedy takéto algebry vieme charakterizovať.

 Študovali sme algebrické vlastnosti systémov množín súvisiacich s rovnomernou konvergenciou postupností charakterov kružnicovej grupy a topologické vlastnosti zodpovedajúcich systémov spojitých transformácií kružnice. Charakterizovali sme stabilné páry určené Galoisovou konexiou medzi uzavretými podgrupami grupy spojitých funkcií a systémami uzavretých podmnožín kružnice. Skúmali sme oddeľovanie analytických podgrúp kružnice od komnožín F-sigma množinami.

 Študovala sa existencia riešení pre rôzne typy frakcionálnych diferenciálnych a diferenčných rovníc.

 Získali sa bifurkácie periodických riešení pre nespojité diferenciálne rovnice.

 Vyšetrovala sa existencia bežiacich vĺn v nelineárnych magnetických materiáloch.

 Vyšetrovala sa riaditeľnosť, pozorovateľnosť a stabilita nelineárnych systémov.

 Študovalo sa numerické správanie kvalitatívnych vlastností dynamických systémov.

 Dokázala sa bifurkácie homoklinických riešení v elektronických obvodoch typu RLC.

 Zaviedli sme novú doménu zovšeobecnenej pravdepodobnosti, ktorá je definovaná pomocou čiastočnej operácie súčtu a je ekvivalentná D-posetom fuzzy množín. Rozšírenie na binárnu operáciu vedie na Łukasiewiczove operácie, bold algebry a fuzzy pravdepodobnosť.

 Popísali sme stavy na súčinoch.

 Ukázali sme, že IF-pravdepodobnosť sa dá študovať v rámci fuzzy pravdepodobnosti.

 Zaviedli sme tenzorovú modifikáciu fuzzy pravdepodobnosti.

 Získalo sa prepojenie teórie multi-polarity s Fourierovými radmi. Študovali sme zovšeobecnené komplexné čísla a bikomplexné čísla z pohľadu mulit-polarity.

 Bolo ukázané, že Bayesovský Hilbertov priestor, zavedený van den Boogaartom a kol. v r. 2014 je reštriktívny v tom zmysle, že v ňom nemusí existovať MAP odhad, ktorý existuje vždy.

 Bol zavedený trojpolárny HSV-RGB farebný priestor. Boli na ňom zavedené operácie sčítania, odčítania, násobenia a (čiastočného) delenia. V ňom achromatická šedé odtiene tvoria ideál. Faktorizujúc priestor cez ideál, dostaneme pole. Prvok (t.j. jednotlivá farba) v podieli je trojica triangulárnych koeficientov. Množina všetkých triangulárnych koeficientov je podmnožina polopoľa parabolických-komplexných funkcií.

 Nech A je algebra a f je jej endomorfizmus. Hovoríme, že f je silný, ak f zachováva všetky kongruencie algebry A. Algebra A má vlastnosť SEKP, ak každá kongruencia algebry A je jadrom silného endomorfizmu tejto algebry. Algebra A má vlastnosť EKP, ak každá kongruencia algebry A je jadrom nejakého endomorfizmu tejto algebry. Vlastnosti EKP a SEKP sú v literatúre študované napr. pre polozväzy, distributívne zväzy, p-algebry, Ockhamove, de Morganove a Stoneove algebry. My sme popísali všetky monounárne algebry, ktoré majú EKP a všetky konečné monounárne algebry, ktoré majú SEKP.

 Definovali sa a študovali sa základné vlastnosti hyper efektových algebier.

 Pomocou konvexnej štruktúry množín kvantových zariadení bola zavedená tzv. hraničnosť ich vnútorných bodov a bol dokázaný jej vzťah s rozlíšiteľnosťou zariadení. Pre prípad kvantových kanálov bolo dokázané, že najlepšie odlíšiteľný kanál od daného kanála je vždy unitárny.

 Halmosova veta o dvoch projekciách bola zovšeobecnená pre projekciu a efekt v synaptickej algebre.

 Bolo zavedené zovšeobecnenie C\*-konvexity, tzv. A-konvexita, a bolo dokázané, že extremálne body a faces množiny procesových POVM sú charakterizované A-extremalitou, resp. A-faces, implementujúcich POVM.

 Bola zistená zložitosť operácie hranica jazyka na triede bezpredponových jazykov.

 Bola študovaná zložitosť operácií na jazykoch reprezentovaných tzv. self-verifying automatmi.

 Využijúc lineárnu algebru sme vytvorili všeobecný prístup k viacerým problémom týkajúcich sa nikde nulových tokov v grafoch ako sú ohraničenia pre minimálne protipríklady pre hypotézu o 5-toku a vety o štyroch farbách.

 Dosiahnuté výsledky sa týkajú najmä určenia charakteristického rangu reálnych vektorových fibrácií, osobitne kanonickej orientovanej vektorovej fibrácie nad orientovanou Grassmannovou varietou orientovaných podpriestorov v euklidovskom priestore. Použila sa nová efektívna metóda, vypracovaná J. Korbašom. Bola určená kohomologická dĺžka niekoľkých nekonečných systémov orientovaných Grassmannových variet orientovaných podpriestorov v euklidovskom priestore.

 Odvodila sa úplná funkcionálna formula, vyjadrujúcu (Z/2Z)-Bettiho čísla orientovaných Grassmannových variet 3-rozmerných orientovaných vektorových podpriestorov v n-rozmernom euklidovskom priestore, v rozsahu určenom charakteristickým rangom kanonickej 3-rozmernej orientovanej vektorovej fibrácie nad touto varietou.

 Študovala sa reťazcová dualita pre kategórie nad diskovými komplexami.

 Študovala sa L-teória kategórií komplexov nad diskovými komplexami s lokálnou dualitou a získala sa tak homologická teória

 V bezsúradnicovom prístupe k teórii chirurgií bol pochopený rozdiel medzi homotopickými triedami 1-rozmerných kvadratických komplexov, triedami stabilných izomorfizmov rozštiepených formácií a triedami stabilných izomorfizmov formácií.

 Skúmali sme nedeteministickú zložitosť doplnku regulárnych jazykov na špeciálnych triedach - free jazykoch a ideáloch.

 Získali sme nové paralelné usporiadania pre paralelnú blokovú Jacobiho metódu pre SVD veľkých matíc.

 Dokázala sa asymptotická kvadraticka konvergencia pre klasickú sériovú blokovú Jacobiho metódu na EVD Hermitovských matíc.

 Bol rozpracovaný topologický analóg metódy zdvíhania polozväzových diagramov pomocou Con funktoru. Táto metóda slúži na určovanie kongruenčne kritických bodov medzi dvoma triedami algebier.

 Pomocou tolerancií boli charakterizované konečné zväzy, ktoré majú malý klon agregačných funkcií, t.j. agregačné funkcie sú iba isté typy polynómov.

 Ukázali, že frakcionálne diferenčné rovnice nemôžu mať periodické riešenie, ale môžu mať S-asymptoticky periodické riešenia.

 Vo forme maticových polynómov stupňa závislého od času sme odvodili reprezentáciu riešenia neutrálnej diferenciálnej rovnice s oneskorením a lineárnymi časťami definovanými po dvoch komutujúcimi maticami.

 Študovali sme problém relatívnej riaditeľnosti pre diferenčné rovnice s oneskorením a viacerými riadiacimi funkciami.

 Ukazali sme vzťahy medzi MV-pármi so stavovými operátormi a stavovými MV-algebrami, podobné vzťahom medzi MV-pármi a MV-algebrami.

 Ukázali sme, že nutná a postačujúca podmienka k tomu, aby zovšeobencená pseudoefektová algebra mala binárnu unitizáciu, je existencia tzv. unitizujúceho automorfizmu. Našli sme vzťah medzi ideálmi zovšeobecnenej efektovej algebry a ideálmi v jej unitizácii vzhľadom na daný unitizujúci automorfizmus.

 Ukázali sme vzťah medzi stavovými operátormi na konvexných efektových algebrách a podmienenými strednými hodnotami v algebrickom i probabilistickom zmysle.

 Ukázali sme, že efektový tribe, v ktorom všetky funkcie sú merateľné vzhľadom na sigma-algebru generovanú jeho charakteristickými funkciami, je tribe, a monotónne sigma-úplná efektová algebra s RDP, ktorej efektový tribe v Loomisovej-Sikorského reprezentácii má uvedenú vlastnosť, je MV-algebra.

 Klasifikácia princípov nezávislých od ZFC, ktorých dôsledkom je kofinalita ideálu Laverovych nulových množín väčšia ako kontinuum.

 Urobili sme prehľadovú prácu, 70 strán, o distribučných funkciách postupností.

 Urobili sme prehľadovú prácu, 40 strán, o blokových postupnostiach.

 Rýchly algoritmus na riešenie prvého okrajového biharmonického problému na obdĺžnikovej oblasti založený na princípe rozštiepenia biharmonického operátora. Experimenty prevedené pre rôzne rozmery siete až po veľkosť 10 000x10 000. Celkový výpočtový čas algoritmu ako aj počet potrebných iterácii je v súlade s teoretickým výsledkom.

 Navrhli sa viaceré nové heuristiky pre minimalizáciu dvojstránkového priesečníkového čísla grafov. Na štandardných testovacích vzorkách grafov sa ukázalo, že navrhnuté heuristiky predčia doteraz najlepšie známe heuristiky.

 Vypracovala sa teória modelov kolektívneho rizika v neživotnom poistení. Analyzovalo sa 72 modelov kolektívneho rizika. Vypracovala sa teória stanovenia distribučnej funkcie pre model kolektívneho rizika numerickou inverziou charakteristickej funkcie.

 Našli sa niektoré spoločné vlastnosti rozdelení za účelom ich spájania do tried rozdelení, charakterizácia týchto tried a generovanie náhodných čísel.

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

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

 Vyvinuli sa metódy a algoritmy pre kombinovanie informácie z nezávislých zdrojov pre vyjadrenie neistôt v meraní a pre metrologické aplikácie.

**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 2015

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2015** | | | | **Počet ukončených doktorantúr v r. 2015** | | | | | |
|  | **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** | 6 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| **Interná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Externá** | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 8 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| **Súhrn** | 10 | | 2 | | 1 | | 1 | | 0 | |

**3.2. Zmena formy doktorandského štúdia**

Tabuľka 3b Počty preradení

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Z formy** | **Interná z prostriedkov SAV** | **Interná z prostriedkov SAV** | **Interná z iných zdrojov** | **Interná z iných zdrojov** | **Externá** | **Externá** |
| **Do formy** | **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 2015 úspešnou obhajobou

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Meno doktoranda** | **Forma DŠ** | **Mesiac, rok nástupu na DŠ** | **Mesiac, rok obhajoby** | **Číslo a názov študijného odboru** | **Meno a organizácia školiteľa** | **Fakulta udeľujúca vedeckú hodnosť** |
| Ing. Igor Mračka | interné štúdium hradené z prostriedkov SAV | 9 / 2010 | 8 / 2015 | 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 programov s uvedením VŠ**

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

|  |  |  |  |
| --- | --- | --- | --- |
| **Názov študijného programu (ŠP)** | **Názov študijného odboru (ŠO)** | **Číslo ŠO** | **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 odborových komisií   študijných programov   doktorandského štúdia** | **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) | Ing. Igor Mračka, PhD. (PhD., 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) | Ondrej Šuch, PhD., M.Sc. (doc., Žilinská univerzita v Žiline) |
| 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) |  |
| 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. Ferdinand Chovanec, CSc. (pravdepodobnosť a matematická štatistika) | prof. RNDr. Beloslav Riečan, DrSc. (Fakulta riadenia a informatiky ŽU) |  |
| prof. RNDr. Július Korbaš, CSc. (geometria a topológia) | RNDr. Imrich Vrťo, DrSc. (Prírodovedecká fakulta UPJŠ) |  |
| doc. RNDr. Miroslav Repický, CSc. (informatika) | prof. RNDr. Gejza Wimmer, DrSc. (Fakulta prírodných vied UMB) |  |
| prof. RNDr. Beloslav Riečan, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |
| prof. RNDr. Beloslav Riečan, DrSc. (matematická analýza) |  |  |
| doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (aplikovaná matematika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (informatika) |  |  |
| RNDr. Imrich Vrťo, DrSc. (teória vyučovania informatiky) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (kvantitatívne metódy v ekonómii) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (metrológia) |  |  |
| prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika) |  |  |

**3.5. Údaje o pedagogickej činnosti**   
Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 8 | 2 | 6 | 1 |
| **Celkový počet hodín v r. 2015** | 601 | 171 | 633 | 48 |

*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** | 12 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 42 |
|
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 9 |
|
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 12 |
|
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 11 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 8 |
|
| **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** | 11 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 3 |
|

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

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

**J. Borsík:** Mgr. Juraj Holos (FPV UMB B. Bystrica) - 9.1.4 Matematická analýza - interný doktorand (úspešne ukončené r. 2015)

**S. Dobrev:** Mgr. Milan Pĺžik (FMFI UK Bratislava) - 9.1.9 Aplikovaná matematika - interný doktorand (úspešne ukončené r. 2015)

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

**R. Frič:** Mgr. Jana Havlíčková (FMFI UK Bratislava) - 9.1.7 Geometria a topológia - interný doktorand (úspešne ukončené r. 2015)

**M. Grendár:** Mgr. Roman Nedela, ml. (FPV UMB Banská Bystrica) - 9.1.11 Pravdepodobnosť a matematická štatistika - interný doktorand

**G. Jirásková:** Mgr. Juraj Šebej (PF UPJŠ Košice) - 9.2.1 Informatika - interný doktorand

**J. Korbaš:** Mgr. Tomáš Rusin (FMFI UK Bratislava) - 9.1.7 Geometria a topológia - 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 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
31st Spring conference on Computer Graphics, Smolenice, 40 účastníkov, 27.04.-29.04.2015

Tradičné medzinárodné stretnutie stretnutie zamerané na všetky aspekty počítačovej grafiky.

22. Česko-slovenská medzinárodná konferencia z teórie čísel, Liptovský Ján, 50 účastníkov, 31.08.-04.09.2015

Medzinárodné stretnutie s viac ako 40 ročnou tradíciou odborníkov zo všetkých oblastí teórie čísel.

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**   
   
32nd Spring conference on Computer Graphics/32nd Spring conference on Computer Graphics, Smolenice, 40 účastníkov, 27.04.-29.04.2016, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

Tradičné medzinárodné stretnutie stretnutie zamerané na všetky aspekty počítačovej grafiky.

16th Central European Conference on Cryptology (CECC)/16th Central European Conference on Cryptology (CECC), Piešťany, 40 účastníkov, 22.06.-24.06.2016, (Karol Nemoga, 02/ 5751 0401, karol.nemoga@mat.savba.sk)

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

30th International Summer Conference on Real Functions Theory/30. medzinárodná konferencia z teórie reálnych funkcií, Stará Lesná, 80 účastníkov, 04.09.-09.09.2016, (Ján Borsík, 055/ 622 8291, borsik@saske.sk)

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

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Typ výboru** | **Programový** | **Organizačný** | **Programový i organizačný** |
| **Počet členstiev** | 10 | 2 | 2 |

**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)

Ondrej Šuch, PhD., M.Sc.

International Phonetics Association (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 | 10 |
| Vajteršic Marian | The Research Foundation - Flanders (FWO) | 1 |

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

**a) Vyslania v rámci centrálnych dohôd**

*Oto Strauch*

V rámci APVV SK-CZ 0075-11 sa zúčastnil seminára "Teória čísel a jej aplikácie"

v Ostrava-Malenovice, ČR, 11. - 14. 11. 2015. Predniesol 2 prednášky:

 Integrovanie pomocou rovnomerne rozdelených postupnotí.

 Dôkaz súvislosti mnoźiny distribučných funkcií postupností.

**c) Ostatné vyslania**

*Martin Bečka*

Salzburg, 11.3.-14.3.2015, 4,

Podarilo sa úspešne preniesť nami vyvinutý paralelný program na výpočet SVD na japonský superpočítač K (resp. FX10). Program sa vyladil pre tento počítač a výsledky ukázali, že pracuje efektívnejšie ako program z najznámejšej paralelnej knižnice lineárnej algebry ScaLAPACK. Spolupráca s prof. Yamamotom z univerzity v Kobe.

*Stefan Dobrev*

21.7. - 25.7., Carleton University, Ottawa, Kanada. Spolupráca s Dr. Kranakisom a jeho doktorandom.

1.8. - 9.8., Simon Fraser University, Vancouver, Kanada. Spolupráca s Dr. Stachom a Dr. Maňuchom.

24.11 - 26.11., Univeristy of Ottawa, Ottwa, Kanada: Vedecká spolupráca s Dr. Santorom a Dr. Flocchini.

27.11 - 30.11., Concordia University, Montreal, Kanada. Vedecká spolupráca s Dr. Opatrným a Dr. Narayanan.

*Ján Haluška*

Medzinárodný Slovensko-Ukrainský spoločný projekt "Vector valued measures and integration in polarized vector spaces" je zatiaľ cestovne neaktívny vzhľadom na známu politickú situáciu na Ukraine.

*Ľubica Holá*

Malta, 17.11.- 23. 11. 2015, 6 dní, na pozvanie Prof. D. Buhagiara a E. Chetcutiho, prednáška Topological properties of the graph and fine topologies.

*Anna Jenčová*

Imperial College, London, 22.-28. 11. 20155, 7 dní, spolupráca s B. Zegarlinskim, prednáška na seminári.

*Martin Kochol*

Viedeň, Rakúsko, 15. - 18. 9. 2015, 4 dni, návšteva Dr. Hoffmanna-Ostenhofa a TU.

Viedeň, Rakúsko, 15.12.2015, 1 deň, návšteva knižnice TU.

*Tibor Macko*

Mathematisches Institut, Universitaet Bonn, Nemecko, postdoktorálny študijný pobyt, 1.1.2015-31.12.2015, aktívna účasť na seminároch, príležitostná pedagogická činnosť, 1 kniha a 2 preprinty v príprave.

*Gabriel Okša*

Salzburg, marec 2015, 5 dní: spolupráca na dôkaze asymptotickej kvadratickej konvergencie sériovej blokovej Jacobiho metódy na EVD hermitovských matíc.

*Miroslav Ploščica*

Maďarská Akadémia Vied Budapešť, 1. 2. - 6. 2. 2015, spolupráca s E. T. Schmidtom na problematike semimodulárnych zväzov.

*Sylvia Pulmannová*

Malta, 11.11.- 16. 11. 2015, 6 dní, na pozvanie Prof. D. Buhagiara a E. Chetcutiho, prednáška Two projections in synaptic algebras.

*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. 2015 sústreďovala na plnenie úloh vyplývajúcich z vedeckých grantov. Všetci vedeckí a odborní pracovníci sú riešiteľmi grantových úloh VEGA, spolu 18 grantov, kde je ústav hlavným riešiteľom a 8 grantov, kde sa ústav zmluvne podieľa na riešení. Okrem toho sa v r. 2015 na ústave riešili 3 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. pokračovala v Programe Štipendium SAV. V r. 2015 Dr. Giselle Monteiro, Brazília, získala prestížny grant SASPRO, ktorý udeľuje SAV, na jeden rok so začiatkom riešenia jar 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.

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. 2015 nastúpil jeden interný doktorand. 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 rámci Slovenska spolupracuje so spoločnosťou eustream, a.s., v roku 2015 bol riešený projekt pre zdokonalenie vyvinutých softvérových produktov (Amadeus MARTI Studio a MartiD), zameraných na výpočet optimálneho nastavenia plynovodu na tranzit plynu. Dlhodobo spolupracuje aj 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 šiesty ročník Dňa otvorených dverí na MÚ SAV v rámci Týždňa vedy, keď v r. 2013 , 2014 aj v r. 2015 prišiel enormný počet záujemcov zo stredných škôl v Bratislave do MÚ SAV. Ústav sa zapojil aj do projektu popularizácie vedy na základných školách, ktorý garantuje SAV. Na ZŠ v Pezinku mal prednášku prof. A. Dvurečenskij. K. Nemoga mal prednášku “Čaro matematiky, Bratislava v číslach, kde všade je matematika? Potrebujeme ju?“ pre stredoškolákov v rámci cyklu populárno-náučných prednášok odborníkov zo SAV pre školy v zriaďovateľskej pôsobnosti BSK.

**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:** 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:** Elektrotechnická fakulta ŽU

**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:** Fakulta riadenia a informatiky ŽU

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

**Začiatok spolupráce:** 2006

**Zameranie:** pedagogika, veda a výskum

**Zhodnotenie:** členstvo v Akademickom senáte, členstvo vo Vedeckej rade.

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

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

**Začiatok spolupráce:** 2002

**Zameranie:** pedagogika, veda a výskum

**Zhodnotenie:** spoločný výskum, výuka, spoluorganizovanie konferencií, príprava spoločných publikácií, spolupráca v projektoch VEGA a APVV, pomoc pri zvyšovaní kvalifikácie, príprava spoločných príspevkov na medzinárodných konferenciách.

**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:** členstvo v Atestačnej komisii, 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 humanitných vied ŽU

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

**Začiatok spolupráce:** 2012

**Zameranie:** veda a výskum

**Zhodnotenie:** Pedagogická činnosť

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

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

**Začiatok spolupráce:** 2012

**Zameranie:** pedagogika, veda a výskum

**Zhodnotenie:** členstvo vo VR, členstvo v Akademickom senáte, výuka, spolupráca vo vedeckých grantoch, príprava spoločných publikácií, výchova mladých vedeckých pracovníkov.

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

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

**Začiatok spolupráce:** 2010

**Zameranie:** grafy a grafové algoritmy

**Zhodnotenie:** vedenie grantu VEGA 2/0118/10 Toky a farbenie grafov

**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): trvá

Objem získaných prostriedkov v bežnom roku (€): 49000

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

Zhodnotenie: Boli zdokonalené a zrýchlené výpočty optimálneho nastavenia tranzitnej sústavy pre prepravu plynu. Výpočty boli zaradené do aktívneho používania na dispečerskom pracovisku v Nitre.

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

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

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2004

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

Objem získaných prostriedkov v bežnom roku (€): 0

Stručný opis výstupu/výsledku: Pokračovala spolupráca s firmou ttc, s.r.o. (bývalé CSE-Controls), Nitra, týkajúca sa vývoja algoritmov na odhaľovanie únikov plynu z potrubí a ich počítačovej implementácie.

Zhodnotenie: Pokračovalo sa v riešení úloh pre moduly na sledovanie únikov. Súčasne sa pokračovalo v účasti v medzinárodných tendroch na získanie zákaziek.

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

V aplikačnej sfére sme v roku 2015 spolupracovali formou účasti našich pracovníkov na riešení konkrétnych úloh s Ministerstvom obrany SR a Národným bezpečnostným úradom. Riešené boli úlohy IT bezpečnosti.   
 **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. | panel European Research Council pre granty mladých matematikov, Brusel | člen |
|  | 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**

**Názov expertízy:** Expert na štatistiku

**Adresát expertízy:** Odbor plánovania a metodiky, Sekcia auditu a kontroly, Ministerstvo financií SR

**Spracoval:** doc. Mgr. Marián Grendár, PhD.

**Stručný opis:**

\* Implementácia a nastavenie štatistických a neštatistických metód na výber vzorky v informačných systémoch orgánu auditu (MF SR) v súlade s legislatívou a metodickými usmerneniami Európskej komisie;   
   
\* Súčinnosť pri implementácii štatistických a neštatistických metód do metodických postupov a usmernení orgánu auditu v súlade s požiadavkami Európskej komisie;   
   
\* Súčinnosť pri komunikácii (elektronickej, ústnej, písomnej) orgánu auditu s Európskou komisiou v oblasti štatistiky;   
   
\* Odborné školenia pre zamestnancov orgánu auditu za oblasť implementovaných štatistických a neštatistických metód používaných orgánom auditu;

**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** |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. | Člen Predsedníctva APVV | člen |

**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. |  | IN | Latinák ako kat? Herec bude rozhodovať o mladých talentoch | www.pluska.sk | 10.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | TL | Talentované deti dostanú šancu získať finančnú podporu na rozvoj | sme | 10.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Talentované deti dostanú šancu získať finančnú podporu na rozvoj | www.teraz.sk | 10.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Talentované deti môžu opäť získať finančnú podporu | www.aktualne.sk | 11.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Talentované deti môžu opäť získať finančnú podporu | www.dennikn.sk | 11.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Talentované deti Slovenska majú opäť šancu získať finančnú podporu na rozvoj | www.tvnoviny.sk | 11.9.2015 |
| prof. RNDr. Anatolij Dvurečenskij, DrSc. |  | IN | Zomrel prof. RNDr. Ján Jakubík, DrSc.– nestor slovenských matematikov | http://www.sav.sk/index.php?lang=sk&doc=services-news&source\_no=20&news\_no=6107 | 25.11.2015 |
| doc. RNDr. Rudolf Hajossy, CSc. |  | PB | Pravouhlé trojuholníky spod Babylonskej veže, Deň otvorených dverí MÚ SAV Bratislava | Bratislava | 11.11.2015 |
| RNDr. Emília Halušková, CSc. |  | IN | Európsky deň rodičov a škôl 2015, prednáška Möbiova páska | http://www.gjak.sk/?page=europsky\_den\_2015 | 11.12.2015 |
| RNDr. Emília Halušková, CSc. |  | IN | Európsky týždeň vedy a techniky | http://matejka.edupage.org/blog2/?jwid=jw1&bid=blog2&wid=jw1\_comp\_BlogModule\_0&g=comp\_BlogModule\_0&bid=blog2&aid=2 | 26.11.2015 |
| RNDr. Emília Halušková, CSc. |  | PB | Möbiova páska | EGJAK, Košice | 16.11.2015 |
| RNDr. Emília Halušková, CSc. |  | PB | Möbiova páska | ESŠ Liptovský Mikuláš | 10.11.2015 |
| RNDr. Emília Halušková, CSc. |  | IN | Möbiova páska | http://esslm.sk/mobiova-paska/ | 30.11.2015 |
| RNDr. Emília Halušková, CSc. |  | PB | Möbiova páska | ZŠ Demänovská, Liptovský Mikuláš | 23.11.2015 |
| RNDr. Emília Halušková, CSc. |  | PB | Möbiova páska | ZŠ J. D. Matejovie, Liptovský Hrádok | 11.11.2015 |
| RNDr. Galina Jirásková, CSc. |  | PB | O prvočíslach a Riemannovej hypotéze | Matematický piatok, Opava | 15.5.2015 |
| Mgr. Peter Mlynárčik |  | PB | Deň otvorených dverí na MÚ SAV, Matematika v hre, hra v matematike. | Matematický ústav SAV, Grešáková 6, Košice | 12.11.2015 |
| Mgr. Peter Mlynárčik |  | PB | Pátek s matematikou a fyzikou pro středoškoláky, Jazyky a stroje | Slezská univerzita, Opava, Česká republika | 15.5.2015 |
| Ing. Igor Mračka, PhD. |  | PB | Katastrofické zlyhanie plynovodu z pohľadu matematika, Deň otvorených dverí MÚ SAV Bratislava | Bratislava | 11.11.2015 |
| doc. RNDr. Karol Nemoga, CSc. |  | PB | Prednáška: Čaro matematiky, Bratislava v číslach, kde všade je matematika? Potrebujeme ju? | Prednáška pre stredoškolákov v sídle BSK Sabinovská 16, Bratislava | 21.5.2015 |
| doc. Ing. Gabriel Okša, CSc. |  | PB | Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární, Deň otvorených dverí MÚ SAV | Bratislava | 11.11.2015 |
| prof. RNDr. Beloslav Riečan, DrSc. |  | iné | Básnická zbierka Heleny Cmarkovej (hudobné vystúpenie) | Štátna vedecká knižnica, Banská Bystrica | 10.12.2015 |
| prof. RNDr. Beloslav Riečan, DrSc. |  | iné | Hudba v dobe Ľudovíta Štúra (hudobné vystúpenie) | Štátna vedecká knižnica, Banská Bystrica | 28.9.2015 |
| prof. RNDr. Beloslav Riečan, DrSc. |  | PB | Július Sommer a Július Letňan | Kuzmányho kruh | 30.11.2015 |
| prof. RNDr. Beloslav Riečan, DrSc. |  | TL | Múdrosť v trápení, trápenie v múdrosti | Tvorba 25, 2015, č. 2, str. 32 | 2015 |
| prof. RNDr. Beloslav Riečan, DrSc. |  | TL | Svedok rozkvetu slovenskej matematiky | MY, banskobystrické noviny | 15.12.2015 |
| Mgr. Miriam Semjanová |  | PB | Vedia mravce matematiku?, Deň otvorených dverí MÚ SAV Bratislava | Bratislava | 11.11.2015 |
| prof. RNDr. Marian Vajteršic, DrSc. |  | RO | HIgh Performance Computing und Parallelverarbeitung | Salzburg | 16.6.2015 |
| Mgr. Peter Mlynárčik | RNDr. Emília Halušková, CSc. | PB | Malý matematický krúžok | Matematický ústav SAV, Košice | 20 |

*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 | 14 | tlač | 3 | TV | 0 |
| rozhlas | 1 | internet | 9 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 2 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9c Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| Rímsky klub a jeho activity v druhom desaťročí 21.storočia | domáca | Bratislava | 24.09.-24.09.2015 | 40 |
| Globálna kríza a scenáre budúcnosti | domáca | Bratislava | 25.11.-25.11.2015 | 50 |
| 31st Spring conference on Computer Graphics | medzinárodná | Smolenice | 27.04.-29.04.2015 | 40 |
| 22. Česko-slovenská medzinárodná konferencia z teórie čísel | medzinárodná | Liptovský Ján | 31.08.-04.09.2015 | 50 |

**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 | 0 | 1 |

**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)

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.

Discontinuity, Nonlinearity and Complexity (funkcia: editor)

Communications in Mathematical Analysis (funkcia: editor)

Differential Equations & Applications (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. Mgr. Marián Grendár, PhD.

Acta Mathematica Universitatis Mathiae Belii (funkcia: redaktor)

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)

Mathematica Bohemica (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

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)

Reports on Mathematical Physics (funkcia: člen)

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 )

Forum Statisticum Slovacum (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 Association for Research in Information Technologies (AARIT) (funkcia: podpredseda)

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-Universitaet 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)

Slovenská štatistická a demografická spoločnosť (funkcia: člen výboru)

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

Matematický ústav mal v roku 2015 pokračujúcu zmluvnú spoluprácu s Jednotou slovenských matematikov a fyzikov a Slovenskou štatistickou a demografickou spoločnosťou. Celkový objem zmluvných prostriedkov bol spolu 6530,- EUR.

**10. Činnosť knižnično-informačného pracoviska**

**10.1. Knižničný fond**

Tabuľka 10a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | | 26 612 |
| z toho | knihy a zviazané periodiká | 26 612 |
| audiovizuálne dokumenty | - |
| elektronické dokumenty (vrátane digitálnych) | - |
| mikroformy | - |
| iné špeciálne dokumenty - dizertácie, výskumné správy | - |
| Počet titulov dochádzajúcich periodík | | 74 |
| z toho zahraničné periodiká | | 68 |
| Ročný prírastok knižničných jednotiek | | 241 |
| v tom | kúpou | 34 |
| darom | 15 |
| výmenou | 192 |
| bezodplatným prevodom | - |
| Úbytky knižničných jednotiek | | - |
| Knižničné jednotky spracované automatizovane | | - |

**10.2. Výpožičky a služby**

Tabuľka 10b Výpožičky a služby

|  |  |  |
| --- | --- | --- |
| **Výpožičky spolu** | | 74 |
| z toho | odborná literatúra pre dospelých | 58 |
| výpožičky periodík | 3 |
| prezenčné výpožičky | 13 |
| MVS iným knižniciam | | 1 |
| MVS z iných knižníc | | - |
| MMVS iným knižniciam | | - |
| MMVS z iných knižníc | | - |
| Počet vypracovaných bibliografií | | - |
| Počet vypracovaných rešerší | | - |

**10.3. Používatelia**

Tabuľka 10c Užívatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 35 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 61 |

**10.4. Iné údaje**

Tabuľka 10d Iné údaje

|  |  |
| --- | --- |
| On-line katalóg knižnice na internete ( 1=áno, 0=nie) | 0 |
| Náklady na nákup knižničného fondu v € | 2 620,83,- |

**10.5. Iné informácie o knižničnej činnosti**

V roku 2015 bol zabezpečený prístup do oboch svetových databáz matematických publikácií – ZentralBlatt MATH (FIZ Karlsruhe GmbH) a MethSciNet (Mathematical Reviews, American Mathematical Society). Prístup do ZentralBlatt MATH bol zdarma ako súčasť práce Slovenskej jednotky redakcie, ktorú zabezpečuje Matematický ústav SAV.

Knižnica ústavu zabezpečuje obstarávanie fondu knižnice a jeho využívanie. Trend posledných desaťročí – prechod na elektronické publikovanie sa ďalej prehĺbil. Prístup ku vedeckej literatúre sa realizuje prevažne cez služby CVTI (prístup ku elektronickým databázam vydavatelstiev ako Springer a podobne).

**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. 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 31.12.2015 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** | 1 012 277,23,- | 911 232,- | 770,30,- | 100 274,93,- | 770,30,- |
| **Bežné výdavky** |  |  |  |  |  |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 543 689,77,- | 522 894,- | 770,30,- | 20 025,47,- | - |
| poistné a príspevok do poisťovní (620) | 195 794,73,- | 189 194,- | - | 6 600,73,- | - |
| tovary a služby (630) | 226 502,73,- | 152 854,- | - | 73 648,73,- | - |
| z toho: časopisy | 26 068,- | 26 068,- | - | - | - |
| VEGA projekty | 70 843,- | 70 843,- | - | - | - |
| MVTS projekty | - | - | - | - | - |
| CE | - | - | - | - | - |
| vedecká výchova | 2 880,- | 2 880,- | - | - | - |
| bežné transfery (640) | 46 290,- | 46 290,- | - | - | - |
| z toho: štipendiá | 45 565,- | 45 565,- | - | - | - |
| transfery partnerom projektov | 27 385,79,- | 6530,- | - | 20855,79,- | - |
| **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 31.12.2015 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 132 750,23,- | - | 101 045,23,- |
| **Nedaňové príjmy** | 132 750,23,- | - | 101 045,23,- |
| **v tom:** |  |  |  |
| príjmy z prenájmu | - | - | - |
| príjmy z predaja výrobkov a služieb | 11 964,- | - | - |
| iné | 2 581,- | - | - |
| **Granty a transfery (mimo zdroja 111)** | 118 205,23,- | - | 101 045,23,- |
| **v tom:** |  |  |  |
| **tuzemské** | 118 205,23,- | - | 101 045,23,- |
| **z toho: APVV** | 80 954,07,- | - | 80 954,07,- |
| **iné** | 20 091,16 | - | 20 091,16,- |
| zahraničné | - | - | - |
| z toho: projekty rámcového programu EÚ | 770,30,- | - | 770,30,- |
| iné | 17 160,- | - | - |

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

Od. 1.7.2010 sa spojili komisie pre obhajobu doktorských dizertačných prác, takže dnes existujú už len tri matematické komisie pre obhajobu DrSc. a Matematický ústav 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 a v r. 2014 vyše 540 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 a v r. 2013 stúpol IF(2012) na 0,394 , IF(2013) stúpol na 0,451 a vlani IF(2014)=0,409.

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

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2014 vyšiel 9. ročník. Adresa je [http://udt.mat.savba.sk](http://udt.mat.savba.sk/) a [http://www.boku.ac.at/MATH/udt](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). Od roku 2016 predpokladáme 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 je spolu s Jednotou slovenských matematikov a fyzikov a Fakultou prírodných vied Univerzity Konštantína filozofa v Nitre. 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 2015**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**15.1.2. Iné domáce ocenenia**

**Hromkovič Juraj**

Vyslanec dobrej vôle 2015

*Oceňovateľ: Ministerstvo zahraničných vecí*

*Opis: Šírenie dobrého mena Slovenska v zahraničí.*

**Korbaš Július**

Zlatá medaila

*Oceňovateľ: Fakulta matematiky, fyziky a informatiky UK*

**Wimmer Gejza**

Pamätná medaila FPV UMB

*Oceňovateľ: FPV UMB*

*Opis: Medaila udelená pri príležitosti 20. výročia založenia FPV UMB*

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

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

**o slobodnom prístupe k informáciám**

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

 zákona č. 43/1970 Zb.,

 zákonač. 92/1977 Zb.,

 zákonač. 7/1990 Zb.,

 zákona č. 291/1992 Zb.,

 zákonač. 11/1993 Z.z.,

 zákonač. 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](http://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](file:///\\MUSAVSRV\exchange\hycko\ustav\2016\VV2015\www.mat.savba.sk) ([www.sav.sk](file:///\\MUSAVSRV\exchange\hycko\ustav\2016\VV2015\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 2015 došlo ku poklesu celkových výdavkov Matematického ústavu SAV o 5,8% oproti roku 2014, ale v rozpočtových výdavkov došlo ku nárastu o 2,0 %. V oblasti miezd sme zaznamenali stagnáciu (celkový nárast o 1,26 % bol dotovaný z mimorozpočtových zdrojov). V oblasti výdavkov na odvody je situácia zhruba rovnaká ako v mzdách, lebo tieto približne lineárne kopírujú mzdy.

V tovaroch a službách bol pokles o 20,2 % spôsobený nižšími mimorozpočtovými zdrojmi. V projektoch VEGA sme zaznamenali nárast o 20,74 %. Tento nárast bol daný tým, že v roku 2014 bolo viazanie rozpočtu SAV, a krátenie VEGA projektov až 26,4 %,

Keď hodnotíme finančnú situáciu roku 2015, potom je treba spomenúť stabilizačnú dohodu SAV, ktorá zabezpečuje rozpočet SAV na roky 2015-2017 vo výške 60 mil. €. Táto dohoda:

 Prináša určitý kľud a stabilitu, nie je nutné s napätím čakať, či nie je treba 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 miezd. Pre rok 2016 to napríklad znamená pokles o 1-2 pracovníkov.

Pozitívne hodnotíme dofinancovanie projektov APVV za rok 2014 a vypísanie všeobecnej výzvy v roku 2015. Celkove je ale situácia v APVV neuspokojivá. Neujasnené a nestabilné financovanie zo strany štátu je trestuhodné. Ohlasovanie reforiem, ktoré by mali vyriešiť situáciu je zahmlievanie problému. To, čo je potrebné, je stabilný prisun prostriedkov a zvýšenie úspešnosti žiadateľov.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám vďaka projektu NISPEZ CVTI (Centrum vedecko-technických informácií) a činnosti Ústrednej knižnice SAV. Matematický ústav SAV zabezpečil prístup do databázy Zentralblatt MATH, Nemecko a prístup do MathSci, USA.V roku 2016 pre nedostatok prostriedkov prístup do MathSci rušíme.

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

**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. |  | doc. RNDr. Ľubica Holá, DrSc. |

**Prílohy**   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2015**

**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. Mgr. Marián Grendár, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5686) | 20 | 0.20 |
| 6. | [doc. RNDr. Ján Haluška, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5687) | 100 | 1.00 |
| 7. | [Mgr. Anna Jenčová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2380) | 100 | 1.00 |
| 8. | [RNDr. Galina Jirásková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5691) | 100 | 1.00 |
| 9. | [prof. RNDr. Július Korbaš, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3819) | 3 | 0.03 |
| 10. | [doc. RNDr. Karol Nemoga, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2369) | 100 | 1.00 |
| 11. | [doc. Ing. Gabriel Okša, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5701) | 100 | 1.00 |
| 12. | [doc. RNDr. Milan Paštéka, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6691) | 3 | 0.03 |
| 13. | [doc. RNDr. Miroslav Ploščica, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5702) | 25 | 0.25 |
| 14. | [doc. RNDr. Miroslav Repický, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5707) | 100 | 1.00 |
| 15. | [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 | 0.83 |
| 4. | [RNDr. Peter Eliaš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5682) | 100 | 1.00 |
| 5. | [doc. RNDr. Rudolf Hajossy, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6702) | 32 | 0.32 |
| 6. | [RNDr. Emília Halušková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5688) | 100 | 0.73 |
| 7. | [Mgr. Marek Hyčko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5521) | 100 | 1.00 |
| 8. | [doc. RNDr. Ferdinand Chovanec, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6700) | 3 | 0.03 |
| 9. | [doc. RNDr. Mária Jurečková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6699) | 3 | 0.03 |
| 10. | [Mgr. Sándor Kelemen, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7219) | 40 | 0.13 |
| 11. | [Mgr. Tibor Macko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5697) | 100 | 0.00 |
| 12. | [Ing. Igor Mračka, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7987) | 100 | 0.33 |
| 13. | [Mgr. Branislav Novotný, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5700) | 100 | 1.00 |
| 14. | [Mgr. Martin Papčo, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8050) | 5 | 0.03 |
| 15. | [RNDr. Jozef Pócs, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5704) | 100 | 0.54 |
| 16. | [RNDr. Michal Pospíšil, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6622) | 20 | 0.20 |
| 17. | [Mgr. Ladislav Stacho, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5714) | 100 | 0.00 |
| 18. | [Ondrej Šuch, PhD., M.Sc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5716) | 25 | 0.25 |
| 19. | [Ing. Ľubomír Török, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5722) | 100 | 1.00 |
| 20. | [Mgr. Elena Vinceková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5727) | 100 | 1.00 |
| 21. | [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** | | | |
| 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) | 100 | 1.00 |
| 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. Katarína Pastorková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10167) | 60 | 0.15 |
| 5. | [Ing.arch. Terézia Sedláková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6653) | 100 | 1.00 |
| 6. | [Mgr. Anton Sedliak](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6652) | 100 | 0.67 |
| 7. | [Mgr. Miriam Semjanová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9749) | 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. | [Dušan Ďuriš](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6704) | 10 | 0.11 |
| 3. | [Jana Galbová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10283) | 60 | 0.45 |
| 4. | [Silvia Gavorová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5684) | 100 | 1.00 |
| 5. | [Ivana Geriaková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2423) | 100 | 1.00 |
| 6. | [Pavel Grebeči](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6703) | 100 | 0.71 |
| 7. | [Ivana Hudecová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7230) | 60 | 0.45 |
| 8. | [Judita Klimentová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6697) | 13 | 0.13 |
| 9. | [Mária Malaščuková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2388) | 100 | 1.00 |
| 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**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [prof. RNDr. Ján Jakubík, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5690) | 24.11.2015 | 0.05 |
| **Odborní pracovníci s VŠ vzdelaním** | | | |
| 1. | [Ing. Martin Bayer](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3815) | 28.2.2015 | 0.08 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Anna Kimličková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6698) | 30.4.2015 | 0.04 |
| 2. | [Silvia Zabadalová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3772) | 30.9.2015 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Soňa Mayerová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7634) | 30.9.2015 | 1.00 |

**Zoznam doktorandov**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Kristína Čevorová | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Mgr. Tomáš Gregor | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 3. | Ing. Michal Hospodár | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 4. | Mgr. Miriam Malíčková | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 5. | Mgr. Peter Mlynárčik | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 6. | Mgr. Matúš Palmovský | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 7. | Mgr. Martin Plávala | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 8. | Mgr. Anton Sedliak | 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. | Ing. Peter Kanas | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |
| 2. | Ing. Jozef Tomeček | Fakulta matematiky, fyziky a informatiky UK | 9.1.9 aplikovaná matematika |

***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:*   
[3] Tomáš Gregor and Ján Haluška: Generalization of Einstein numbers by adding new dimensions to domains preserving commutativity and associativity. Journal of Advanced Mathematics and Applications, 4 (2015), 3–10.   
   
   
   
**2.) Výskum neurčitosti a príslušných informácií pomocou algebraických štruktúr** *(Dealing with uncertain and imprecise information through algebraic structures)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Beloslav Riečan |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
   
**Projekty národných agentúr**

**Programy: VEGA**

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

|  |  |
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| **Zodpovedný riešiteľ:** | Ján Borsík |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0050/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 1702 € |

*Dosiahnuté výsledky:*   
Boli vyšetrované kvázispojité funkcie s množinou bodov nespojitosti miery nula.   
   
1. J. Borsík: Quasicontinuous functions with small set of discontinuity points prijatá ako kapitola do monografie Modern Real Analysis   
   
**2.) Grafovo-teoretické a algoritmické problémy v distributívnych a senzorických sieťach** *(Theoretical and algorithmic topics in distributed networks)*

|  |  |
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| **Zodpovedný riešiteľ:** | Stefan Dobrev |
| **Trvanie projektu:** | 1.1.2012 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0136/12 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 8509 € |

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

|  |  |
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| **Zodpovedný riešiteľ:** | Michal Fečkan |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0029/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 5538 € |

*Dosiahnuté výsledky:*   
1. BABAJANOV, Bazar - FEČKAN, Michal - URAZBOEV, Gayrat. On the periodic Toda lattice with a self-consistent source. In Communications in nonlinear science and numerical simulation, 2015, vol. 22, p. 1223–1234.   
   
2. BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting singularities in nonlinear RLC circuits. In Nonlinear Analysis: theory, Methods & Applications, 2015, vol. 116, p. 26–36.

3. DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Nonexistence of periodic solutions and S-asymptotically periodic solutions in fractional difference equations. In Applied Mathematics and Computation, 2015, vol. 257, p. 230–240.   
   
4. WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Nonlocal impulsive fractional differential inclusions with fractional sectorial operators on Banach spaces. In Applied Mathematics and Computation, 2015, vol. 257, p. 103–118.   
   
5. POSPÍŠIL, Michal - DIBLIK, J. - FEČKAN, Michal. On relative controllability of delayed difference equations with multiple control functions. In AIP Conference Proceedings, 2015, vol. 1648, art. no. UNSP 130001.   
   
6. WANG, JinRong - DENG, JianHua - FEČKAN, Michal. Exploring s-e-Condition and applications to some Ostrowski type inequalities via Hadamard fractional integrals. In Mathematica Slovaca, 2014, vol. 64, no. 6, p. 1381–1396.   
   
7. KORBAŠ, Július. The characteristic rank and cup-length in oriented Grassmann manifolds. In Osaka Journal of Mathematics, 2015, vol. 52, no. 4, p. 1163–1172.   
   
8. POSPÍŠIL, Michal - ŠKRIPKOVÁ, L. Representation of solution of neutral differential equations with delay and with linear parts defined by pairwise permutable matrices. In Miskolc Mathematical Notes, 2015, vol. 16, no. 1, p. 423–438.   
   
9. HAJOSSY, R. — MRAČKA, I. — ŽÁČIK, T.: Depressurization of a gas reservoir by a pipe of arbitrary length, PSIG Annual Meeting held in New Orleans, Louisiana, USA, 12. - 15. 5. 2015.   
   
**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: 2690 € |

*Dosiahnuté výsledky:*   
Zaviedli sme novú doménu zovšeobecnenej pravdepodobnosti, ktorá je definovaná pomocou čiastočnej operácie súčtu a je ekvivalentná D-posetom fuzy množín. Rozšírenie na binárnu operáciu vedie na Łukasiewiczove operácie, bold algebry a fuzy pravdepodobnos. Popísali sme stavy na súčinoch.   
   
Ukázali sme, že IF-pravdepodobnosť sa dá študovať v rámci fuzy pravdepodobnosti. Zaviedli sme tenzorovú modifikáciu fuzy pravdepodobnosti.   
   
1. Roman Frič , Martin Papčo: On Probability Domains III, International Journal of Theoretical Physics 2015, Volume 54, pp 4237–4246.

2. Václav Skřivánek, Roman Frič: Generalized Random Events, International Journal of Theoretical Physics, 2015, Volume 54, pp 4386–4396.   
   
   
**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: 4255 € |

*Dosiahnuté výsledky:*   
   
   
**6.) Topologické štruktúry na priestoroch funkcií** *(Topological structures on functional spaces)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0018/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 4255 € |

*Dosiahnuté výsledky:*   
V článku Ľ. Holá, B. Novotný, Topology of uniform convergence and Čech-Stone compactification, J. Math. Anal. Appl. 424 2015, 470-474, skúmame hustotu topológie rovnomernej konvergencie na priestore reálne-hodnotových spojitých funkcií na Tichonovskom priestore X vzhľadom na dva iné kardinálne invarianty. Jedným je váha Čech-Stoneovej kompaktifikácie priestoru X a druhým je stupeň kompaktnosti priestoru X. Pre metrizovateľné alebo pseudokompaktné priestory X sme našli vzťah vo forme vzorca a pre spočítateľne parakompaktný normálny priestor sme našli odhady.   
   
1. Ľ. Holá, B. Novotný, Topology of uniform convergence and \v Cech-Stone compactification, Journal of Mathematical Analysis and Applications, 424 (2015), 470–474.   
   
2. Ľ. Holá, An embedding in the Fell topology, Topology and its Applications, 180 (2015), 161-166.   
   
3. Ľ. Holá, L. Zsilinszky, Completeness properties of the graph topology, Topology Proceedings 46 (2015), 1–14.   
   
4. Ľ. Holá, D. Holý, New characterizations of minimal cusco maps, Rocky Mountain Math. J. 44 (2014), 1851-1866.

5. Ľ. Holá, A.K. Mirmostafaee, Z. Piotrowski, Points of openness and closedness of some mappings, Banach J. Math. Anal. 9 (2015), 243–252   
   
6. Ľ. Holá, D. Holý, Minimal usco and minimal cusco maps, Khayyam J. Math. 01/2015.   
   
   
**7.) Algebraická a pravdepodobnostná teória čísela ich aplikácie** *(Algebraic and probabilistic number theory and their applications)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Stanislav Jakubec |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | VEGA 2/0146/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | VEGA: 8538 € |

*Dosiahnuté výsledky:*   
1. S. Jakubec, M. Paštéka, A. Schinzel: Class number of real Abelian fields, J. Number Theory 148 (2015), 365–371.   
   
2. Š. Porubský, O. Strauch, A common structure nk's for which nk\_ mod 1 -> x, Publ. Math. Debrecen 86 (2015), no. 3–4, 493–502, DOI:10.5486/PMD.2015.7128.   
   
3. O. Strauch, Statistically convergent sequences, Ab igne ignem (To 75th birthday of Bela Laszlo), Eds: A. Komzsik, T. Szabo (2015), 81–96, ISBN 978-80-558-0792-8 EAN 9788055807928.   
   
4. O. Strauch, Some applications of distribution functions of sequences, Uniform Distribution Theory 10 (2015), no. 2, 117–183.   
   
5. V. Baláž, J. Fialová, M. Hofer, O. M. R. Iac, O. Strauch, The asymptotic distribution function of the 4-dimensional shifted van de Corput sequence, Tatra Mt. Math. Publ. 64 (2015), pp. 20, to appear.   
   
6. O. Strauch, Distribution functions of ratio sequences. An expository paper. Tatra Mt. Math. Publ. 64 (2015), pp. 55, submitted.   
   
**8.) 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: 6807 € |

*Dosiahnuté výsledky:*   
   
   
**9.) Výskum mikroštruktúr, elektrických a optických vlastností polovodičovo-dielektrických systémov**

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| **Zodpovedný riešiteľ:** | Mária Jurečková |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 1/0853/13 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Elektrotechnická fakulta, ŽU |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
   
**10.) 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: 1703 € |

*Dosiahnuté výsledky:*   
ABC   
   
KOCHOL, M.: Quantitative Methods for Nowhere-Zero Flows and Edge-Colorings, in: M. Dehmer, F. Emmert-Streib, Quantitative Graph Theory: Theoretical Foundations and Applications, pp. 141–180, Chapman and Hall/CRC Press, Boca Raton, FL, 2015.   
   
AFE   
   
KOCHOL, M.: Splitting Formulas for Tutte-Grothendiek Invariants on Graphs, Workshop on New Directions for the Tutte Polynomial: Extensions, Interrelations, and Applications, Royal Holloway University of London, UK, 11-14.7.2015.

**11.) Paralelné blokové algoritmy pre kanonické dekompozície tenzorov** *(Parallel block algorithms for the canonical decomposition of tensors)*

|  |  |
| --- | --- |
| **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: 6807 € |

*Dosiahnuté výsledky:*   
   
   
**12.) Reprezentačné a klasifikačné problémy algebraických štruktúr** *(Representation and classification problems in the theory of algebraic structures)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Miroslav Ploščica |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0028/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 2269 € |

*Dosiahnuté výsledky:*   
1. Bol rozpracovaný topologický analóg metódy zdvíhania polozväzových diagramov pomocou Con funktoru. Táto metóda slúži na určovanie kongruenčne kritických bodov medzi dvoma triedami algebier.   
   
2. Pomocou tolerancií boli charakterizované konečné zväzy, ktoré majú malý klon agregačných funkcií, t.j. agregačné funkcie sú iba isté typy polynómov.   
   
3. Popísali sme všetky monounárne algebry, ktoré majú EKP a všetky konečné monounárne algebry, ktoré majú SEKP. Algebra A má vlastnosť EKP (SEKP), ak každá kongruencia algebry A je jadrom (silného) endomorfizmu tejto algebry.

**13.) Matematické modely kvantových štruktúr a neurčitosti** *(Mathematical models of quantum structures and uncertainty)*

|  |  |
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| **Zodpovedný riešiteľ:** | Sylvia Pulmannová |
| **Trvanie projektu:** | 1.1.2012 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0059/12 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 10665 € |

*Dosiahnuté výsledky:*   
1. Pulmannová, S., Vinceková, E: MV-pairs and state operators. Fuzzy Sets and Systems 260 (2015) 62–76. ADCA   
   
2. Foulis, D.J., Pulmannová, S.: Unitizing a generalized pseudo effect algebra. Order 32 (2015) 189–204. ADEA   
   
3. Jenčová, A., Pulmannová, S.: Effect algebras with state operators. Fuzzy Sets and Systems 260 (2015) 43—61. ADCA   
   
4. Foulis, D.J, Jenčová,a., Pulmannová,S.: Two projections in a synaptic algebra. Linear Algebra and Its Applications 478 (2015) 162–187. ADCA   
   
5. Foulis, D.J., Jenčová, A., Pulmannová, S.: A projection and an effect in a synaptic algebra, Linear Algebra and its Applications 485 (2015) 417–441. ADCA   
   
6. Pulmannová, S., Vinceková, E.: Remarks on effect tribes, Kybernetika 51(2015), 739–746. ADCA   
   
7. D.J. Foulis, S. Pulmannová, E. Vinceková: Unitizations of generalized pseudo effect algebras and their ideals, Order, DOI 10.1007/s11083-015-9368-6. ADEA   
   
8. A. Dvurečenskij, H-perfect pseudo MV-algebras and their representations, Math. Slovaca 65 (2015), 761–788. DOI: 10.1515/ms-2015-0054 SCI   
   
9. A. Dvurečenskij, States on quantum and algebraic structures and their integral representation, Fuzzy Sets and Systems 259 (2015), 56–67. DOI 10.1016/j.fss.2013.11.005 CC   
   
10. R. A. Borzooei, A. Dvurečenskij, O. Zahiri, State BCK-algebras and state-morphism BCK-algebras, Fuzzy Sets and Systems 244 (2014), 86–105. DOI:10.1016/j.fss.2013.12.007 CC   
   
11. A. Dvurečenskij, On a new construction of pseudo effect algebras, Soft Computing 19 (2015), 517–529. DOI: 10.1007/s00500-014-1468-5 CC   
   
12. R.A. Borzooei, A. Dvurečenskij, O. Zahiri, L-ordered and L-lattice ordered groups, Inform. Sci. 314 (2015), 118–134. DOI: 10.1016/j.ins.2015.03.072 CC   
   
13. A. Dvurečenskij, On a new construction of pseudo BL-algebras, Fuzzy Sets and Systems 271 (2015), 156–167. DOI: 10.1016/j.fss.2014.10.014 CC   
   
14. A. Dvurečenskij, Quantum structures versus partially ordered groups, Inter. J. Theor. Phys. 54 (2015), 4260–4271. DOI: 10.1007/s10773-014-2479-9 CC   
   
15. A. Dvurečenskij, Lexicographic pseudo MV-algebras, J. Appl. Logic13 (2015), 825–841. DOI: 10.1016/j.jal.2015.10.001 CC   
   
   
**14.) Kvantovo-informatické konvexné štruktúry** *(Quantum-theoretical convex structures)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Michal Sedlák |
| **Zodpovedný riešiteľ v organizácii SAV:** | Anna Jenčová |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2015 |
| **Evidenčné číslo projektu:** | 2/0125/13 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 2000 € |

*Dosiahnuté výsledky:*   
   
**15.) Rozdelenie postupností a ich aplikácie, aditívne miery množín prirodzených čísel** *(Distributions of Sequences and Their Applications, Additive Measures of Natural Numbers)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Oto Strauch |
| **Trvanie projektu:** | 1.1.2012 / 31.12.2015 |
| **Evidenčné číslo projektu:** | VEGA 1/1022/12 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Univerzita J. Selyeho |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
**16.) 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: 7800 € |

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

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| **Zodpovedný riešiteľ:** | Andrea Zemánková |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | VEGA 2/0049/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 2127 € |

*Dosiahnuté výsledky:*   
   
   
**Programy: APVV**

**18.) Neurčitosť z pohľadu pravdepodobnosti, algebry, samoadjungovaných operátorov a kvantových štruktúr** *(Uncertainity from point of view of probability, algebra, selfadjoint operatorov and qunatum structures)*

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| **Zodpovedný riešiteľ:** | Anatolij Dvurečenskij |
| **Trvanie projektu:** | 1.7.2012 / 31.12.2015 |
| **Evidenčné číslo projektu:** | APVV-0178-11 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | APVV: 33815 € |

*Dosiahnuté výsledky:*   
1. A. Dvurečenskij, How do l-groups and po-groups appear in algebraic and quantum structures? In: F. Montagna et al., ``Petr Hajek on Mathematical Fuzzy Logic", Series: Outstanding Contributions to Logic, vol. 6, ISBN 978-3-319-06232-7, Springer 2015, pp. 177—206. DOI: 10.1007/978-3-319-06233-4-9 SCI   
   
2. A. Dvurečenskij, H-perfect pseudo MV-algebras and their representations, Math. Slovaca 65 (2015), 761–788. DOI: 10.1515/ms-2015-0054 SCI   
   
3. A. Dvurečenskij, States on quantum and algebraic structures and their integral representation, Fuzzy Sets and Systems 259 (2015), 56–67. DOI 10.1016/j.fss.2013.11.005 CC   
   
4. A. Dvurečenskij, On a new construction of pseudo effect algebras, Soft Computing 19 (2015), 517–529. DOI: 10.1007/s00500-014-1468-5 CC   
   
5. R. A. Borzooei, A. Dvurečenskij, O. Zahiri, L-ordered and L-lattice ordered groups, Inform. Sci. 314 (2015), 118–134. DOI: 10.1016/j.ins.2015.03.072 CC   
   
6. A. Dvurečenskij, On a new construction of pseudo BL-algebras, Fuzzy Sets and Systems 271 (2015), 156–167. DOI: 10.1016/j.fss.2014.10.014 CC   
7. A. Dvurečenskij, Quantum structures versus partially ordered groups, Inter. J. Theor. Phys. 54 (2015), 4260–4271. DOI: 10.1007/s10773-014-2479-9 CC   
   
8. A. Dvurečenskij, Lexicographic pseudo MV-algebras, J. Appl. Logic 13 (2015), 825–841. DOI: 10.1016/j.jal.2015.10.001 CC   
   
9. Pulmannová, S., Vinceková, E: MV-pairs and state operators. Fuzzy Sets and Systems 260 (2015) 62–76. CC   
   
10. Foulis, D.J., Pulmannová, S.: Unitizing a generalized pseudo effect algebra. Order 32 (2015) 189–204. CC   
   
11. Jenčová, A., Pulmannová, S.: Effect algebras with state operators. Fuzzy Sets and Systems CC (2015) 43–61. CC   
   
12. Foulis, D.J, Jenčová, A., Pulmannová, S.: Two projections in a synaptic algebra. Linear Algebra and Its Applications CC (2015) 162–187. CC   
   
13. Foulis, D.J., Jenčová, A., Pulmannová, S.: A projection and an effect in a synaptic algebra, Linear Algebra and its Applications CC (2015) 417–441. CC   
   
14. Pulmannová, S., Vinceková, E.: Remarks on effect tribes, Kybernetika 51, no. 5 (2015) 739–746. CC   
   
15. A. Mesiarová-Zemánková, M. Hyčko, Aggregation on Boolean multi-polar space: Knowledge-based vs. category-based ordering, Information Sciences 309 (2015), 163–179. CC   
   
16. G. Jenča, Effect algebras are the Eilenberg-Moore category for the Kalmbach monad, Order, 32 (2015) 439–448. SCI   
   
17. R. Frič, M. Papčo, On probability domains III., Inter. J. Theor. Phys. 54 (2015), 4237–4246. CC   
   
**19.) Funkcionálne priestory, bornológie, hyperpriestory a topologické štruktúry** *(Function spaces, bornologies, hyperspaces and topological structures)*

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| **Zodpovedný riešiteľ:** | Ľubica Holá |
| **Trvanie projektu:** | 1.7.2012 / 31.12.2015 |
| **Evidenčné číslo projektu:** | APVV-0269-11 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Matematický ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 20797 € |

*Dosiahnuté výsledky:*   
V článku Ľ. Holá, B. Novotný, Topology of uniform convergence and Čech-Stone compactification, J. Math. Anal. Appl. 424 2015, 470-474, skúmame hustotu topológie rovnomernej konvergencie na priestore reálne-hodnotových spojitých funkcií na Tichonovskom priestore X vzhľadom na dva iné kardinálne invarianty. Jedným je váha Čech-Stoneovej kompaktifikácie priestoru X a druhým je stupeň kompaktnosti priestoru X. Pre metrizovateľné alebo pseudokompaktné priestory X sme našli vzťah vo forme vzorca a pre spočítateľne parakompaktný normálny priestor sme našli odhady.   
1. Ľ. Holá, B. Novotný, Topology of uniform convergence and Čech-Stone compactification, Journal of Mathematical Analysis and Applications, 424 (2015), 470–474.   
   
2. Ľ. Holá, An embedding in the Fell topology, Topology and its Applications, 180 (2015), 161–166.   
   
3. Ľ. Holá, L. Zsilinszky, Completeness properties of the graph topology, Topology Proceedings 46 (2015), 1–14.   
   
4. Ľ. Holá, D. Holý, New characterizations of minimal cusco maps, Rocky Mountain Math. J. 44 (2014), 1851–1866.   
   
5. Ľ. Holá, A. K. Mirmostafaee, Z. Piotrowski, Points of openness and closedness of some mappings, Banach J. Math. Anal. 9 (2015), 243–252.   
   
6. Ľ. Holá, D. Holý, Minimal usco and minimal cusco maps, Khayyam J. Math. 01/2015.   
   
7. M. Repický, Sets of points of symmetric continuity, Archive for Mathematical Logic, 54 (2015), issue 7, 803–824. DOI 10.1007/s00153-015-0441-z.   
   
8. M. Repický, A proof of the independence of the Axiom of Choice from the Boolean Prime Ideal Theorem, Commentationes Mathematicae Universitatis Carolinae 56 (2015), no. 4, 543–546.   
   
9. J. Borsík, Maximal classes for some families of Darboux-like and quasicontinuous-like functions, in: Monograph on the Ocassion 100th Birthday Anniversary of Zygmunt Zahorski, Wydawnictwo Politechniki Slaskiej, Gliwice 2015, 155–168, ISBN 978-83-7880-206-8.   
   
   
**20.) Automatizované spravovávanie trasologických objektov** *(Automatic processing of traceology objects)*

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| **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: 9106 € |

*Dosiahnuté výsledky:*

**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:** | Eustream, a.s.: 17160 € |

*Dosiahnuté výsledky:*   
Publikácia v zborníku:   
1. HAJOSSY, R. — MRAČKA, I. — ŽÁČIK, T.: Depressurization of a gas reservoir by a pipe of arbitrary length, PSIG Annual Meeting held in New Orleans, Louisiana, USA, 12. - 15. 5. 2015.   
   
**Programy: Iné projekty**

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

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

**AAB Vedecké monografie vydané v domácich vydavateľstvách**

|  |  |
| --- | --- |
| AAB01 | WIMMER, Gejza - PALENČÁR, R. - WITKOVSKÝ, Viktor - ĎURIŠ, S. Vyhodnotenie kalibrácie meradiel : Štatistické metódy pre analýzu neistôt v metrológii. Recenzenti: L. Kubáček, M. Terek, M. Dovica. Bratislava : Nakladateľstvo STU, 2015. xviii, 173 s. ISBN 978-80-227-4374-7. |

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

|  |  |
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| 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. |

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

|  |  |
| --- | --- |
| ABC01 | BORSÍK, Ján. Maximal classes for some families of Darboux-like and quasicontinuous-like functions. Rec. O. Artemovych, C. Bagiński et al. In Monograph on the Occasion of 100th Birthday Anniversary of Zygmunt Zahorski. - Gliwice : Wydawnictwo Politechniki Śląskiej, 2015, s. 155-168. ISBN 978-83-7880-206-8. |
| ABC02 | DVUREČENSKIJ, Anatolij. How do l-groups and po-groups appear in algebraic and quantum structures? In Petr Hájek on Mathematical Fuzzy Logic, Series: Outstanding Contributions to Logic, vol. 6. - Switzerland : Springer, 2015, s. 177-206. ISBN 978-3-319-06232-7. |
| ABC03 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - SZABARI, Alexander. Operations on self-verifying finite automata. In Computer Science - Theory and Applications : LNCS 9139, proceedings. - Springer, 2015, p. 231-261. ISBN 978-3-319-20296-9. |
| ABC04 | KOCHOL, Martin. Quantitative methods for nowhere-zero flows and edge colorings. In Quantitative graph theory : mathematical foundations and applications. - Boca Raton : CRC Press, 2015, p. 141-180. ISBN 978-1-4665-8452-5. |
| ABC05 | KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. EllipseFit4HC: A Matlab algorithm for demodulation and uncertainty evaluation of the quadrature interferometer signals. In Advances in Mathematical and Computational Tools in Metrology and Testing X. - World Scientific, 2015, p. 211-218. ISBN 978-981-4678-61-2. |

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

|  |  |
| --- | --- |
| ADCA01 | ARCHDEACON, Dan - KOTRBČÍK, Michal - NEDELA, Roman - ŠKOVIERA, Martin. Maximum genus, connectivity, and Nebesky's Theorem. In Ars Mathematica Contemporanea, 2015, vol. 9, no. 1, p. 51-61. (0.741 - IF2014). (2015 - Current Contents, WOS). ISSN 1855-3966. |
| ADCA02 | BABAJANOV, Bazar - FEČKAN, Michal - URAZBOEV, Gayrat. On the periodic Toda lattice with a self-consistent source. In Communications in nonlinear science and numerical simulation, 2015, vol. 22, p. 1223-1234. (2.866 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1007-5704. Dostupné na internete: <http://ac.els-cdn.com/S1007570414004869/1-s2.0-S1007570414004869-main.pdf?\_tid=29957da2-5de1-11e5-99ef-00000aacb362&acdnat=1442565915\_d9acfa80671ebcf3f7a9d69322e3494f>. |
| ADCA03 | BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting singularities in nonlinear RLC circuits. In Nonlinear Analysis: theory, Methods & Applications, 2015, vol. 116, p. 26-36. (1.327 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0362-546X. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0362546X1400412X>. |
| ADCA04 | BORZOOEI, R.A. - DVUREČENSKIJ, Anatolij - ZAHIRI, O. L-ordered and L-lattice ordered groups. In Information Sciences, 2015, vol. 314, s. 118-134. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. |
| ADCA05 | DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Nonexistence of periodic solutions and S-asymptotically periodic solutions in fractional difference equations. In Applied Mathematics and Computation, 2015, vol. 257, p. 230-240. (1.551 - IF2014). (2015 - Current Contents). ISSN 0096-3003. |
| ADCA06 | DVUREČENSKIJ, Anatolij. Quantum structures versus partially ordered groups. In International Journal of Theoretical Physics, 2015, vol. 54, no. 12, p. 4260-4271. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748. |
| ADCA07 | DVUREČENSKIJ, Anatolij - JANDA, Jiří. Regular gleason measures and generalized effect algebras. In International Journal of Theoretical Physics, 2015, vol. 54, no. 12, p. 4313-4326. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-015-2509-2>. |
| ADCA08 | DVUREČENSKIJ, Anatolij. On a new construction of pseudo effect algebras. In Soft Computing, 2015, vol. 19, s. 517-529. (1.271 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1432-7643. |
| ADCA09 | DVUREČENSKIJ, Anatolij. Lexicographic pseudo MV-algebras. In Journal of Applied Logic, 2015, vol. 13, p. 825-841. (0.576 - IF2014). (2015 - Current Contents, WOS). ISSN 1570-8683. |
| ADCA10 | DVUREČENSKIJ, Anatolij. States on quantum and algebraic structures and their integral representation. In Fuzzy Sets and Systems, 2015, vol. 259, s. 56-67. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. |
| ADCA11 | DVUREČENSKIJ, Anatolij. On a new construction of pseudo BL-algebras. In Fuzzy Sets and Systems, 2015, vol. 271, s. 156-167. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. |
| ADCA12 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Two projections in a synaptic algebra. In Linear Algebra and its Applications, 2015, vol. 478, s. 162-187. (0.939 - IF2014). (2015 - Current Contents). ISSN 0024-3795. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S0024379515001858>. |
| ADCA13 | FOULIS, David J - JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. A projection and an effect in a synaptic algebra. In Linear Algebra and its Applications, 2015, vol. 485, p. 417-441. (0.939 - IF2014). (2015 - Current Contents). ISSN 0024-3795. Dostupné na internete: <http://www.sciencedirect.com/science/article/pii/S002437951500453X>. |
| ADCA14 | FRIČ, Roman - PAPČO, Martin. On probability domains III. In International Journal of Theoretical Physics, 2015, vol. 54, no. 12, p. 4237-4246. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-014-2471-4>. |
| ADCA15 | HALAŠ, Radomír - PÓCS, Jozef. Generalized one-sided concept lattices with attribute preferences. In Information Sciences, 2015, vol. 303, p. 50-60. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. |
| ADCA16 | HALAŠ, Radomír - PÓCS, Jozef. On lattices with a smallest set of aggregation functions. In Information Sciences, 2015, vol. 325, p. 316-323. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. |

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| ADCA17 | HOLÁ, Ľubica - HOLÝ, Dušan. New characterizations of minimal cusco maps. In Rocky Mountain Journal of Mathematics, 2014, vol. 44, no. 6, p. 1851-1866. (0.491 - IF2013). (2014 - Current Contents). ISSN 0035-7596. |
| ADCA18 | HOLÁ, Ľubica - NOVOTNÝ, Branislav. Topology of uniform convergence and Čech-Stone compactification. In Journal of Mathematical Analysis and Applications, 2015, vol. 424, s. 470-474. (1.120 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0022-247X. |
| ADCA19 | HU, Kan - NEDELA, Roman - ŠKOVIERA, Martin - WANG, Naer. Regular embeddings of cycles with multiple edges revisited. In Ars Mathematica Contemporanea, 2015, vol. 8, no. 1, p. 177-194. (0.741 - IF2014). (2015 - Current Contents, WOS). ISSN 1855-3966. |
| ADCA20 | JAKUBEC, Stanislav - PAŠTÉKA, Milan - SCHINZEL, A. Class number of real Abelian fields. In Journal of Number Theory, 2015, vol. 148, p. 365-371. (0.593 - IF2014). (2015 - Current Contents). ISSN 0022-314X. |
| ADCA21 | JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Effect algebras with state operator. In Fuzzy Sets and Systems, 2015, vol. 260, s. 43-61. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. |
| ADCA22 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina. On the boundary of regular languages. In Theoretical Computer Science, 2015, vol. 578, p. 42-57. (0.657 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-3975. |
| ADCA23 | KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. The statistical uncertainty of the Heydemann correction: A practical limit of optical quadrature homodyne interferometry. In Measurement Science and Technology, 2015, vol. 26, no. 8, p. 084004. (1.433 - IF2014). (2015 - Current Contents). ISSN 0957-0233. |
| ADCA24 | KORBAŠ, Július. The characteristic rank and cup-length in oriented Grassmann manifolds. In Osaka Journal of Mathematics, 2015, vol. 52, no. 4, p. 1163-1172. (0.402 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0030-6126. |
| ADCA25 | MAJERNÍK, Vladimír. A novel gravity model with the modified field. In Astrophysics and Space Science, 2015, vol. 357, no. 1, p. 1-3. (2.263 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-640X. |
| ADCA26 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - HYČKO, Marek. Aggregation on Boolean multi-polar space: Knowledge-based vs. category-based ordering. In Information Sciences, 2015, vol. 309, s. 163-179. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. |
| ADCA27 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Multi-polar t-conorms and uninorms. In Information Sciences, 2015, vol. 301, s. 227-240. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255. |
| ADCA28 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, Khurshid. Averaging operators in fuzzy classification systems. In Fuzzy Sets and Systems, 2015, vol. 207, s. 53-73. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. |
| ADCA29 | PÓCS, Jozef - PÓCSOVÁ, Jana. Basic theorem as representation of heterogeneous concept lattices. In Frontiers of Computer Science, 2015, vol. 9, no. 4, p. 636-642. (0.434 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 2095-2228. |
| ADCA30 | PUCHAŁA, Zbigniew - JENČOVÁ, Anna - SEDLÁK, Michal - ZIMAN, Mário. Exploring boundaries of quantum convex structures : Special role of unitary processes. In Physical Review A, 2015, vol. 92, no. 1, art. no. 012304. (2.808 - IF2014). (2015 - Current Contents). ISSN 1050-2947. |
| ADCA31 | PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. MV-pairs and state operators. In Fuzzy Sets and Systems, 2015, vol. 260, s. 62-76. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114. |

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| ADCA32 | REPICKÝ, Miroslav. Sets of points of symmetric continuity. In Archive for Mathematical Logic, 2015, vol. 54, no. 7, p. 803-824. (0.320 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0933-5846. |
| ADCA33 | SKŘIVÁNEK, Václav - FRIČ, Roman. Generalized random events. In International Journal of Theoretical Physics, 2015, vol. 54, no. 12, p. 4386-4396. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-015-2594-2>. |
| ADCA34 | ŠUCH, Ondrej - LINN, Eike - KLIMO, Martin - JANČOVIČ, Peter - FRÁTRIK, Milan - FRÖHLICH, Karol. On passive permutation circuits. In IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, vol. 5, no. 2, p. 173-182. (1.524 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 2156-3357. |
| ADCA35 | WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Nonlocal impulsive fractional differential inclusions with fractional sectorial operators on Banach spaces. In Applied Mathematics and Computation, 2015, vol. 257, p. 103-118. (1.551 - IF2014). (2015 - Current Contents). ISSN 0096-3003. |
| ADCA36 | WAWER, Mathias J. - LI, Kejie - GUSTAFSDOTTIR, Sigrun M. - LJOSA, Vebjorn - BODYCOMBE, Nicole E. - MARTON, Melissa A. - SOKOLNICKI, Katherine L. - BRAY, Mark-Anthony - KEMP, Melissa M. - WINCHESTER, Ellen - TAYLOR, Bradley - GRANT, George B. - HON, Suk-Yee C. - DUVALL, Jeremy - WILSON, Anthony J. - BITTKER, Joshua A. - DANČÍK, Vladimír - NARAYAN, Rajiv - SUBRAMANIAN, Aravind - WINCKLER, Wendy - GOLUB, Todd R. - CARPENTER, Anne E. - SHAMJI, Alykhan F. - SCHREIBER, Stuart L. - CLEMONS, Paul A. Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. In Proceedings of the National Academy of Sciences of the United States of America, 2014, vol. 111, no. 30, p. 10911-10916. (9.809 - IF2013). (2014 - Current Contents). ISSN 0027-8424. |
| ADCA37 | WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠ, S. On statistical methods for common mean and reference confidence intervals in interlaboratory comparisons for temperature. In International Journal of Thermophysics, 2015, vol. 36, no. 8, p. 2150-2171. (0.963 - IF2014). (2015 - Current Contents). ISSN 0195-928X. |
| ADCA38 | WITKOVSKÝ, Viktor - WIMMER, Gejza - DUBY, T. Logarithmic Lambert W × F random variables for the family of chi-squared distributions and their applications. In Statistics & Probability Letters, 2015, vol. 96, p. 223-231. (0.595 - IF2014). (2015 - Current Contents). ISSN 0167-7152. |

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

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| ADMA01 | D´AZEVEDO, Antonio Breda - CATALANO, Domenico - KARABÁŠ, Ján - NEDELA, Roman. Maps of Archimedean class and operations on dessins. In Discrete Mathematics, 2015, vol. 338, p. 1814-1825. (0.557 - IF2014). (2015 - WOS, SCOPUS). ISSN 0012-365X. |
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| ADMA06 | PORUBSKÝ, Štefan - STRAUCH, Oto. A common structure of $n\_k$'s for which $n\_k\alpha\bmod1\to x$. In Publicationes Mathematicae - Debrecen, 2015, vol. 86, no. 3-4, p. 493-502. (0.503 - IF2014). (2015 - WOS). ISSN 0033-3883. |
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| ADMB01 | BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, Marián. New dynamic orderings for the parallel one-sided block-jacobi SVD algorithm. In Parallel Processing Letters, 2015, vol. 25, no. 2, article number 1550003. (2015 - SCOPUS). ISSN 0129-6264. |
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| ADMB05 | POSPÍŠIL, Michal - DIBLIK, J. - FEČKAN, Michal. On relative controllability of delayed difference equations with multiple control functions. In AIP Conference Proceedings, 2015, vol. 1648, art. no. UNSP 130001. (2015 - WOS, SCOPUS). ISSN 0094-243X. |
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| ADNA05 | WANG, JinRong - DENG, JianHua - FEČKAN, Michal. Exploring s-e-Condition and applications to some Ostrowski type inequalities via Hadamard fractional integrals. JinRong Wang, JianHua Deng, Michal Fečkan. In Mathematica Slovaca, 2014, vol. 64, no. 6, p. 1381-1396. (0.451 - IF2013). (2014 - WOS, SCOPUS). ISSN 0139-9918. |

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| ADNB01 | GREGOR, Tomáš. Three-polar space over the semi-field of double numbers. In Tatra Mountains Mathematical Publications, 2014, vol. 61, p. 163-173. (2014 - SCOPUS). ISSN 1210-3195. Dostupné na internete: <http://tatra.mat.savba.sk/>. |

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| AECA02 | DOBREV, Stefan - PLŽÍK, Milan. Improved Spanners in Networks with Symmetric Directional Antennas. In Algorithms for Sensor Systems : 10th International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics. - Berlin : Springer, 2015, s. 103-121. ISBN 978-3-662-46017-7. ISSN 0302-9743. |
| AECA03 | JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina. The boundary of prefix-free languages. In Developments in Language Theory : LNCS 9168, proceedings. - Springer, 2015, p. 300-312. ISBN 978-3-319-21499-3. |
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| AECA06 | PALENČÁR, Rudolf - ĎURIŠ, Stanislav - PAVLÁSEK, P. - DOVICA, M. - SLOSARČÍK, S. - WIMMER, Gejza. Least-squares method and type B evaluation of standard uncertainty. In Advances in Mathematical and Computational Tools in Metrology and Testing X. - World Scientific, 2015, p. 280-284. ISBN 978-981-4678-61-2. |
| AECA07 | RIEČAN, Beloslav - MICHALÍKOVÁ, Alžbeta. On the continuity of probability on IF sets. In Strenthennings Links between Data Analysis and Soft Computing, Advances in Intelligent Systems and Computing 315. Eds. Gzegorzewski, P. et al. - Springer, 2015, s. 63-70. ISBN 978-3-319-10765-3. |
| AECA08 | ŠUCH, Ondrej - BEŇUŠ, Štefan - TINAJOVÁ, Andrea. A new method to combine probability estimates from pairwise binary classifiers. In ITAT 2015 : Information Technologies - Applications and Theory : proceedings of the 15th conference. - Prague : Charles University in Prague, 2015, s. 194-199. ISBN 978-1515120650. ISSN 1613-0073. Dostupné na internete: <http://itat.ics.upjs.sk/uploads/ITAT\_2015.pdf>. |
| AECA09 | ŠUCH, Ondrej - BEŇUŠ, Štefan. A new proposal for metric in perceptual mulitdimensional scaling. In Proceedings of the 18th International Congress of Phonetic Sciences. - Glasgow : The University of Glasgow, 2015, s. 5. ISBN 978-0-85261-941-4. Názov z webovej stránky. Požaduje sa Acrobat Reader. Dostupné na internete: <http://www.icphs2015.info/pdfs/Papers/ICPHS0479.pdf>. |

**AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly / state v domácich monografiách alebo vysokoškolských učebniciach**

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| AFC06 | RIEČAN, Beloslav. Embedding of IF-states to MV-algebras. In Intelligent Systems'2014. - Springer, 2015, s. 157-162. ISBN 978-3-319-11312-8. ISSN 2194-5357. |

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| AFD02 | KOREC, Ivan - WIEDERMANN, Jiří. Deterministic verification of integer matrix multiplication in quadratic time. In SOFSEM 2014: theory and practice of computer science : proceedings, LNCS 8327. V. Geffert, B. Preneel, B. Rovan, J. Štuller, A.M. Tjoa (eds.). - Cham : Springer, 2014, s. 375-382. ISBN 978-3-319-04297-8. ISSN 0302-9743. |
| AFD03 | WIMMER, Gejza - WITKOVSKÝ, Viktor - KÖNING, R. An algorithm for demodulation of correlated quadrature interferometer signals. In MEASUREMENT 2015 : 10th International Conference on Measurement. Editors J. Maňka, M. Tyšler, V. Witkovský, I. Frollo. - Bratislava : Institute of Measurement Science, SAS, 2015, p. 17-20. ISBN 978-80-969672-9-2. |

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| AFG01 | KLIMO, Martin - LINN, Eike - ŠUCH, Ondrej - JANČOVIČ, Peter - FRÖHLICH, Karol - FRÁTRIK, Milan. Memory properties of MIN, MAX gates using memristor implementation. In E-MRS Spring Meeting 2014: symposium S- Memristor materials, mechanism and devices for unconventional computing [elektronický zdroj]. - Lille, 2014, [1 p.]. |
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**BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných**

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**BDMB Odborné práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS**

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| BDMB01 | DVUREČENSKIJ, Anatolij. Antonio Di Nola. In Mathematica Slovaca, 2015, vol. 65, no. 4, p. 727-729. (0.409 - IF2014). (2015 - WOS, SCOPUS). ISSN 0139-9918. |

**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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| GHG02 | DI STOLFO, Paolo - VAJTERŠIC, Marián. Fast algorithm for the fourth-order elliptic problem based on orthogonal matrix decomposition : technical report 2015-08 [elektronický zdroj]. Salzburg : Universität Salzburg, 2015. [12 p.]. Názov z internetu Adobe reader. Požaduje sa Adobe reader. Dostupné na internete: <http://www.uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/documents/Technical\_Reports/2015-08\_Stolfo\_Vajtersic.pdf>. |
| GHG03 | YAMAMOTO, Yusaku - OKŠA, Gabriel - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the serial block-Jacobi EVD algorithm for Hermitian matrices : technical report 2015-03 [elektronický zdroj]. Salzburg : Department of Computer Sciences, University of Salzburg, 2015. 15 p. Názov z obrazovky. Požaduje sa Acrobat Reader. Dostupné na internete: <http://uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/documents/Technical\_Reports/2015-03\_Yamamoto\_Oksa\_Vajtersic.pdf>. |

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

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| GII01 | DVUREČENSKIJ, Anatolij. Ocenili osobnosť slovenskej matematiky. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 3, s. 26. ISSN 0139-6307. |
| GII02 | DVUREČENSKIJ, Anatolij. Odišiel pán učiteľ Ladislav Jónáš. In Obzory matematiky, fyziky a informatiky, 2015, vol. 44, č. 3, s. 36-38. ISSN 1335-4981. |

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| AAA03 | DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. New Trends in Quantum Structures. Dordrecht : Kluwer Academic ; Bratislava : Ister Science, 2000. 541+xvi pp. ISBN 0-7923-6471-6. |

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| AED02 | RUŽIČKA, Peter - WIEDERMANN, Juraj - VRŤO, Imrich. Systolické systémy. In Distribuované a paralelné systémy : hl. úl. I-5-7 Matematická informatika. - Bratislava : Výskumné výpočtové stredisko, 1984, s. 11-185. |

Citácie:

*1. [3] CALUDE, C.C., FREIVALDS, R., KAZUO, I. Computing with new Resources : essays dedicated to Jozef Gruska on the occasion of his 80th birthday. Springer : 2014. Lecture Notes in Computer Science, vol. 8808, p. 1-473. ISSN 0302-9743.*

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| AED03 | WEISENPACHER, Peter - HALADA, Ladislav - GLASA, Ján - POLEDŇÁK, Pavel - OKŠA, Gabriel. Experimental and computational study of automobile fires. In 6th International Workshop on Grid Computing for Complex Problems : GCCP 2010 proceedings. Eds L. Hluchý, P. Kurdel, J. Sebestyénová. - Bratislava : Institute of Informatics SAS, 2010, p. 74-83. ISBN 978-80-970145-3-7. |

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*1. [9] VIITALA, N. - HYYPPÄ, M. Fire Cause Investigation And Fire Debris Analysis Review: 2010 to 2013. In 17th Interpol International Forensic Science Managers Symposium, Lyon 2013, p. 231-279., Google Scholar*

**\*AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch (aj konferenčných), monografiách**

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

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

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*1. [1.1] ALDEGHI, M. - MALHOTRA, S. - SELWOOD, D.L. - CHAN, A.W.E. Two-and Three-dimensional Rings in Drugs. In CHEMICAL BIOLOGY & DRUG DESIGN. ISSN 1747-0277, APR 2014, vol. 83, no. 4, p. 450-461., WOS*

*2. [1.1] ASAD, N. - SAMARAKOON, T.B. - ZANG, Q. - LOH, J.K. - JAVED, S. - HANSON, P.R. Rapid, Scalable Assembly of Stereochemically Rich, Mono- and Bicyclic Acyl Sultams. In ORGANIC LETTERS. ISSN 1523-7060, JAN 3 2014, vol. 16, no. 1, p. 82-85., WOS*

*3. [1.1] COMER, E. - DUVALL, J.R. - LEE, M.D. Utilizing diversity-oriented synthesis in antimicrobial drug discovery. In FUTURE MEDICINAL CHEMISTRY. ISSN 1756-8919, 2014, vol. 6, no. 17, p. 1927-1942., WOS*

*4. [1.1] IBBESON, B.M. - LARAIA, L. - ALZA, E. - O' CONNOR, C.J. - TAN, Y.S. - DAVIES, H.M.L. - MCKENZIE, G. - VENKITARAMAN, A.R. - SPRING, D.R. Diversity-oriented synthesis as a tool for identifying new modulators of mitosis. In NATURE COMMUNICATIONS. ISSN 2041-1723, JAN 2014, vol. 5., WOS*

*5. [1.1] KESAVAN, S. - MARCAURELLE, L.A. Translational synthetic chemistry. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, APR 2013, vol. 9, no. 4, p. 210-213., WOS*

*6. [1.1] KLEIN, J. - HEAL, J.R. - HAMILTON, W.D.O. - BOUSSEMGHOUNE, T. - TANGE, T.O. - DELEGRANGE, F. - JAESCHKE, G. - HATSCH, A. - HEIM, J. Yeast Synthetic Biology Platform Generates Novel Chemical Structures as Scaffolds for Drug Discovery. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, MAY 2014, vol. 3, no. 5, p. 314-323., WOS*

*7. [1.1] KOMBO, D.C. - TALLAPRAGADA, K. - JAIN, R. - CHEWNING, J. - MAZUROV, A.A. - SPEAKE, J.D. - HAUSER, T.A. - TOLER, S. 3D Molecular Descriptors Important for Clinical Success. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, FEB 2013, vol. 53, no. 2, p. 327-342., WOS*

*8. [1.1] KOUTSOUKAS, A. - PARICHARAK, S. - GALLOWAY, W.R.J.D. - SPRING, D.R. - IJZERMAN, A.P. - GLEN, R.C. - MARCUS, D. - BENDER, A. How Diverse Are Diversity Assessment Methods? A Comparative Analysis and Benchmarking of Molecular Descriptor Space. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, JAN 2014, vol. 54, no. 1, p. 230-242., WOS*

*9. [1.1] LISCIO, P. - CAMAIONI, E. - CAROTTI, A. - PELLICCIARI, R. - MACCHIARULO, A. From Polypharmacology to Target Specificity: The Case of PARP Inhibitors. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, DEC 2013, vol. 13, no. 23, p. 2939-2954., WOS*

*10. [1.1] MAHENDAR, V. - OIKAWA, H. - OGURI, H. Sequential [6+2], [2+2], and [3+2] annulations for rapid assembly of multiple fragments. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2013, vol. 49, no. 23, p. 2299-2301., WOS*

*11. [1.1] MCLEOD, M.C. - SINGH, G. - PLAMPIN, J.N. - RANE, D. - WANG, J.L. - DAY, V.W. - AUBE, J. Probing chemical space with alkaloid-inspired libraries. In NATURE CHEMISTRY. ISSN 1755-4330, FEB 2014, vol. 6, no. 2, p. 133-140., WOS*

*12. [1.1] MEDINA-FRANCO, J.L. - MENDEZ-LUCIO, O. - MARTINEZ-MAYORGA, K. The Interplay Between Molecular Modeling and Chemoinformatics to Characterize Protein-Ligand and Protein-Protein Interactions Landscapes for Drug Discovery. In BIOMOLECULAR MODELLING AND SIMULATIONS. ISSN 1876-1623, 2014, vol. 96, p. 1-37., WOS*

*13. [1.1] MILROY, L.G. - GROSSMANN, T.N. - HENNIG, S. - BRUNSVELD, L. - OTTMANN, C. Modulators of Protein-Protein Interactions. In CHEMICAL REVIEWS. ISSN 0009-2665, MAY 14 2014, vol. 114, no. 9, p. 4695-4748., WOS*

*14. [1.1] NILAR, S.H. - MA, N.L. - KELLER, T.H. The importance of molecular complexity in the design of screening libraries. In JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN. ISSN 0920-654X, SEP 2013, vol. 27, no. 9, p. 783-792., WOS*

*15. [1.1] ZHANG, H.M. - JEON, K.O. - BEN HAY, E. - GEIB, S.J. - CURRAN, D.P. - LAPORTE, M.G. Radical [3+2]-Annulation of Divinylcyclopropanes: Rapid Synthesis of Complex Meloscine Analogs. In ORGANIC LETTERS. ISSN 1523-7060, JAN 3 2014, vol. 16, no. 1, p. 94-97., WOS*

*16. [1.2] HUANG, Sheng He - XIA, Hongwei - CHI, Feng - KHALAF, Naila K. - JONG, Ambrose. Chemoinfectomics in drug design and development. In Anti-Infective Agents. ISSN 2211-3525, 2013, vol. 11, no. 2, p. 100-108., SCOPUS*

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| AEE03 | DVUREČENSKIJ, Anatolij - CHOVANEC, Ferdinand - RYBÁRIKOVÁ, E. Observables, measures, and atomic Dedekind σ-complete BCK-algebras. In Proc. EUROUSE-SC'99 Budapest. - Hungary : Technic. Univ. of Budapest, 1999, s. 89-94. |

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| AEE04 | DVUREČENSKIJ, Anatolij. On partial addition in pseudo MV-algebras. In Proc. Fourth Inter. Symp. on Econ. Inform. - Bucharest : INFOREC Printing House, 1999, s. 952-960. |

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*2. [3] CIUNGU, L.C. “Non-commutative Multiple-Valued Logic Algebras”. Springer, ISBN 978-3-319-01588-0 (Print) 978-3-319-01589-7 (Online), 2014.*

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*1. [1.1] CIUNGU, L.C. Submeasures on nuanced MV-algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, JUN 1 2014, vol. 244, p. 106-122., WOS*

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

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| AEF01 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. On some Complexity aspects of generalized one-sided concept lattices algorithm. In 10th IEEE Jubilee International Symposium on Applied Machine Intelligence and Informatics (SAMI 2012). - Herľany, Slovakia, 2012, s. 231-236. |

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*1. [1.1] KONECNY, J. - MEDINA, J. - OJEDA-ACIEGO, M. Multi-adjoint concept lattices with heterogeneous conjunctors and hedges. In ANNALS OF MATHEMATICS AND ARTIFICIAL INTELLIGENCE. ISSN 1012-2443, OCT 2014, vol. 72, no. 1-2, p. 73-89., WOS*

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| AEF02 | GRUSKA, Jozef. Descriptional complexity of context-free languages. In Proc. of MFCS'73. - High Tatras, 1973, s. 71-85. |

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*1. [1.1] FREUND, R. - PAUN, G. P Systems with Anti-Matter. In COMPUTING WITH NEW RESOURCES: ESSAYS DEDICATED TO JOZEF GRUSKA ON THE OCCASION OF HIS 80TH BIRTHDAY. ISSN 0302-9743, 2014, vol. 8808, p. 409-420., WOS*

*2. [1.1] KARHUMAKI, J. - OKHOTIN, A. On the Determinization Blowup for Finite Automata Recognizing Equal-Length Languages. In COMPUTING WITH NEW RESOURCES: ESSAYS DEDICATED TO JOZEF GRUSKA ON THE OCCASION OF HIS 80TH BIRTHDAY. ISSN 0302-9743, 2014, vol. 8808, p. 71-82., WOS*

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| AEF03 | OKŠA, Gabriel - BEČKA, Martin - VAJTERŠIC, Marián. Parallel SVD computation in updating problems of latent semantic indexing. In ALGORITMY 2002. 16th conference on scientific computing, Vysoké Tatry - Podbanské, Slovakia, September 8-13, 2002 : proceedings o contributed papers and posters. Editors: Angela Handlovičová, Zuzana Krivá, Karol Mikula, Daniel Ševčovič. - Bratislava : Slovak University o Technology : Faculty of Civil Engineering : Department of Mathematics and Descriptive Geometry, 2002, s. 113-120. ISBN 80-227-1750-9. |

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*1. [2.1] LIU, Y. - LI, M.Z. - KHAN, M. - QI, M. A MapReduce based distributed LSI for scalable information retrieval. In COMPUTING AND INFORMATICS. ISSN 1335-9150, 2014, vol. 33, no. 2, p. 259-280., WOS*

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| AEF04 | RIEČAN, Beloslav. On the probability on BL algebras. In Acta Mathematica 4. - Nitra : Univerzita Konštantína Filozofa, 2000, s. 3-13. ISBN 80–8050-350–8. |

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*1. [1.1] BOTUR, M. - KUHR, J. - RACHUNEK, J. On States and State Operators on Certain Basic Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, OCT 2014, vol. 53, no. 10, p. 3512-3530., WOS*

*2. [1.1] ZHOU, H.J. - ZHAO, B. Characterizations of Endomorphic Nuclei on R-0-Algebras (Nilpotent Minimum Algebras). In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2014, vol. 22, no. 1-2, p. 123-132., WOS*

*3. [3] CIUNGU, L.C. States on multiple-valued logic algebras. In Non-commutative multiple-valued logic algebras. Springer, 2014. ISBN 978-3-319-01588-0, p. 155-190.*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
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| AFC01 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. Comparison of Standard and Sparse-based Implementation of GOSCL Algorithm. In 13th IEEE International Symposium on Computational Intelligence and Informatics (CINTI 2012). - Budapest, Hungary, 2012, s. 67-71. |

Citácie:

*1. [1.1] BEDNAR, P. - SARNOVSKY, M. - DEMKO, V. RDF vs. NoSQL databases for the Semantic Web applications. In 2014 IEEE 12TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI). 2014, p. 361-364., WOS*

*2. [1.1] SARNOVSKY, M. - VRONC, M. Distributed boosting algorithm for classification of text documents. In 2014 IEEE 12TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI). 2014, p. 216-219., WOS*

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| AFC02 | BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. On Generation of One-Sided Concept Lattices from Restricted Context. In IEEE 10th Jubilee International Symposium on Intelligent Systems and Informatics (SISY 2012). - 2012, s. 111-115. |

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*1. [1.1] KRIDLO, Ondrej - OJEDA-ACIEGO, Manuel. Revising the link between L-Chu correspondences and completely lattice L-ordered sets. In ANNALS OF MATHEMATICS AND ARTIFICIAL INTELLIGENCE. ISSN 1012-2443, OCT 2014, vol. 72, no. 1-2, p. 91-113., WOS*

**AFD Publikované príspevky na domácich vedeckých konferenciách**

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

Citácie:

*1. [1.2] GASIENEC, L., LEVCOPOULOS, C., LINGAS, A. Efficiently correcting matrix products. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2014, vol. 8889, p. 53-64., SCOPUS*

**BCI Skriptá a učebné texty**

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| BCI01 | MESIAROVÁ-ZEMÁNKOVÁ, Andrea - KOMORNÍKOVÁ, M. Riešenie úloh lineárneho programovania pomocou programu Excel. Bratislava : FM UK, 2007. |

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*1. [3] VESELOVSKÁ, L. A Linear Programming Model of Integrating Flexibility Measures into Production Processes with Cost Minimization. In Journal of Small Business and Entrepreneurship Development, 2014, vol. 2, no. 1, p. 67-82. ISSN 2333-6374.*

*2. [3] VESELOVSKÁ, L. Linear programming model of production process optimization: a case study. In The Business & Management Review, 2014, vol. 5, no. 1, p. 211-219.*

**GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup**

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

Citácie:

*1. [1.1] HAN, P. - SONG, P.X. -K. - WANG, L. Longitudinal data analysis using the conditional empirical likelihood method. In CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE. ISSN 0319-5724, SEP 2014, vol. 42, no. 3, p. 404-422., WOS*

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| GHG02 | GRENDÁR, Marián - JUDGE, G.G. Consistency of empirical likelihood and maximum A-posteriori probability under misspecification : CUDARE Working Papers [elektronický zdroj]. Berkeley, CA : University of California, 2008. Dostupné na internete: <http://escholarship.org/uc/item/4b78z47x>. |

Citácie:

*1. [1.2] MITANKIN, P., GERDJIKOV, S., MIHOV, S. An approach to unsupervised historical text normalization. In ACM International Conference Proceeding Series, 2014. ISBN 978-145032588-2, p. 29-34., SCOPUS*

***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

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: Matematicka analýza 3

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 4

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Nelineárna funkcionálna analýza

Počet hodín za semester: 26

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

doc. RNDr. Roman Frič, DrSc.

Názov semestr. predmetu: Vybrané 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: 4

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

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Lineárna algebra II

Počet hodín za semester: 3

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

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Matematika v praxi II

Počet hodín za semester: 2

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

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Špeciálna ekonometria

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra aplikovanej matematiky a štatistiky

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Štatistika v prírodných vedách

Počet hodín za semester: 3

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 52

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 26

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Lineárna algebra a geom. (1)

Počet hodín za semester: 52

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Lineárna algebra a geom. (2)

Počet hodín za semester: 39

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 39

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav aplikovanej informatiky a matematiky   
doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 24

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: numerické metódy lineárnej algebry

Počet hodín za semester: 39

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, 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: Univerzita Palackého v Olomouci, ČR, Katedra algebry a geometrie PřF UP

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Matematická logika a teória množín

Počet hodín za semester: 3

Názov katedry a vysokej školy: Univerzita Palackého v Olomouci, ČR, Katedra algebry a geometrie PřF UP

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Computer Architecture

Počet hodín za semester: 60

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. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Parallel Processing

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: Matematická štatistika 2,4

Počet hodín za semester: 72

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Matematická štatistika 3

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: Pravdepodobnosť a štatistika

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: 96

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 24

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: MATLAB I, II

Počet hodín za semester: 52

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: numerické metódy lineárnej algebry

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (1)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Bayesovské metódy

Počet hodín za semester: 24

Názov katedry a vysokej školy: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika, Ústav matematiky a statistiky

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Mnohorozmenré štatistické metódy 1

Počet hodín za semester: 24

Názov katedry a vysokej školy: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika, Ústav matematiky a statistiky

Semináre:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Seminár z matematiky

Počet hodín za semester: 72

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

doc. Mgr. Marián Grendár, PhD.

Názov semestr. predmetu: Diplomový seminár

Počet hodín za semester: 2

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Seminár z algebraickej a diferenciálnej topológie

Počet hodín za semester: 26

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Seminár z algebraickej a diferenciálnej topológie

Počet hodín za semester: 26

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

Terénne cvičenia:

Individuálne prednášky:   
   
 ***Príloha E***

**Medzinárodná mobilita organizácie**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Karol Nemoga | 3 |
| Česko |  |  |  |  | Anatolij Dvurečenskij | 1 |
|  |  |  |  |  | Roman Frič | 17 |
|  |  |  |  |  | Ján Haluška | 5 |
|  |  |  |  |  | Emília Halušková | 7 |
|  |  |  |  |  | Marek Hyčko | 1 |
|  |  |  |  |  | Stanislav Jakubec | 2 |
|  |  |  |  |  | Anna Jenčová | 3 |
|  |  |  |  |  | Karol Nemoga | 2 |
|  |  |  |  |  | Jozef Pócs | 18 |
|  |  |  |  |  | Sylvia Pulmannová | 7 |
|  |  |  |  |  | Miriam Semjanová | 4 |
|  |  |  |  |  | Oto Strauch | 4 |
|  |  |  |  |  | Gejza Wimmer | 5 |
| Grécko |  |  |  |  | Ján Borsík | 8 |
|  |  |  |  |  | Ľubica Holá | 8 |
|  |  |  |  |  | Branislav Novotný | 8 |
| Izrael |  |  |  |  | Karol Nemoga | 6 |
| Kanada |  |  |  |  | Kristína Čevorová | 10 |
|  |  |  |  |  | Stefan Dobrev | 10 |
|  |  |  |  |  | Anna Jenčová | 7 |
|  |  |  |  |  | Galina Jirásková | 9 |
|  |  |  |  |  | Peter Mlynárčik | 9 |
|  |  |  |  |  | Matúš Palmovský | 9 |
| Maďarsko |  |  |  |  | Miroslav Ploščica | 6 |
| Malta |  |  |  |  | Ľubica Holá | 6 |
|  |  |  |  |  | Sylvia Pulmannová | 6 |
| Mexiko |  |  |  |  | Stefan Dobrev | 10 |
| Nemecko |  |  |  |  | Emília Halušková | 5 |
| Nórsko |  |  |  |  | Karol Nemoga | 6 |
| Poľsko |  |  |  |  | Martin Bečka | 6 |
|  |  |  |  |  | Ján Borsík | 6 |
|  |  |  |  |  | Roman Frič | 6 |
|  |  |  |  |  | Tomáš Gregor | 6 |
|  |  |  |  |  | Ján Haluška | 6 |
|  |  |  |  |  | Emília Halušková | 5 |
|  |  |  |  |  | Ľubica Holá | 12 |
|  |  |  |  |  | Anna Jenčová | 6 |
|  |  |  |  |  | Branislav Novotný | 6 |
|  |  |  |  |  | Gabriel Okša | 6 |
|  |  |  |  |  | Marian Vajteršic | 6 |
| Rakúsko |  |  |  |  | Martin Bečka | 4 |
|  |  |  |  |  | Martin Kochol | 5 |
|  |  |  |  |  | Karol Nemoga | 4 |
|  |  |  |  |  | Gabriel Okša | 7 |
| Rusko |  |  |  |  | Galina Jirásková | 3 |
| Taliansko |  |  |  |  | Karol Nemoga | 4 |
|  |  |  |  |  | Sylvia Pulmannová | 8 |
| Turecko |  |  |  |  | Ľubica Holá | 8 |
|  |  |  |  |  | Karol Nemoga | 7 |
|  |  |  |  |  | Branislav Novotný | 8 |
|  |  |  |  |  | Tibor Žáčik | 7 |
| USA |  |  |  |  | Stefan Dobrev | 16 |
|  |  |  |  |  | Igor Mračka | 8 |
|  |  |  |  |  | Anton Sedliak | 8 |
| Veľká Británia |  |  |  |  | Anna Jenčová | 7 |
|  |  |  |  |  | Galina Jirásková | 7 |
|  |  |  |  |  | Martin Kochol | 8 |
|  |  |  |  |  | Ondrej Šuch | 11 |
| **Počet vyslaní spolu** |  |  |  |  | **59** | **403** |

**(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** |
| Brazília |  |  |  |  | Dr. Giselle Monteiro | 1 |
| Česko | prof. RNDr. Štefan Porubský, DrSc. | 20 |  |  | doc. Mgr. Jan Kühr, PhD. | 1 |
|  |  |  |  |  | doc. Mgr. Michal Botur, PhD. | 1 |
|  |  |  |  |  | prof. RNDr. Radomír Halaš, PhD. | 2 |
|  |  |  |  |  | RNDr. Miroslav Kolařík, PhD. | 3 |
| Taliansko |  |  |  |  | Dr. Roberto Beneduci | 6 |
| **Počet prijatí spolu** | **1** | **20** |  |  | **6** | **14** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Česko | Geometry and Physics 2015 | Tibor Macko | 8 |
|  | CEQUIP 2015 | Anna Jenčová | 3 |
|  | ODAM 2015 | Marián Grendár | 3 |
|  |  | Gejza Wimmer | 6 |
|  | SSAOS 2015 | Emília Halušková | 7 |
|  |  | Sylvia Pulmannová | 7 |
|  | STAKAN 2015 | Gejza Wimmer | 3 |
|  | TPSZP 2015 | Marián Grendár | 3 |
| Grécko | IECMSA-2015 | Ján Borsík | 4 |
|  |  | Ľubica Holá | 4 |
|  |  | Branislav Novotný | 4 |
| Kanada | BIRS 2015 | Anna Jenčová | 6 |
|  | Brzozowski 80 | Galina Jirásková | 1 |
|  | DCFS 2015 | Kristína Čevorová | 4 |
|  |  | Peter Mlynárčik | 4 |
|  |  | Matúš Palmovský | 4 |
| Nemecko | AAA89 | Emília Halušková | 5 |
|  | PanMath 2015 | Tibor Macko | 3 |
| Poľsko | AALCS 19 | Emília Halušková | 5 |
|  | Glances@Manifolds | Tibor Macko | 4 |
|  | MNA 2015 | Roman Frič | 2 |
|  | nonComm 2015 | Anna Jenčová | 5 |
|  | PPAM 2015 | Martin Bečka | 4 |
|  |  | Marian Vajteršic | 4 |
|  | XXIX ISCRFT | Ján Borsík | 6 |
|  |  | Roman Frič | 6 |
|  |  | Tomáš Gregor | 6 |
|  |  | Ján Haluška | 6 |
|  |  | Branislav Novotný | 6 |
| Rakúsko | CECC 2015 | Karol Nemoga | 3 |
| Rumunsko | SACI 2015 | Jozef Pócs | 3 |
| Rusko | CSR 2015 | Galina Jirásková | 5 |
| Španielsko | ESCIM 2015 | Jozef Pócs | 4 |
| Taliansko | TACL 201|5 | Sylvia Pulmannová | 8 |
| Turecko | ICRAPAM 2015 | Ľubica Holá | 4 |
|  |  | Branislav Novotný | 4 |
| Veľká Británia | DLT 2015 | Galina Jirásková | 4 |
|  | WkShopTutte 2015 | Martin Kochol | 4 |
| **Spolu** | **26** | **38** | **172** |

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

Skratky použité v tabuľke C:

Geometry and Physics 2015 - Winter School Geometry and Physics 2015

AAA89 - 89th Arbeitstagung Allgemeine Algebra

AALCS 19 - Applications of Algebra and Logic in Computer Science XIX

BIRS 2015 - BIRS Worksop Beypnd I.I.D. in Information Theory

Brzozowski 80 - Brzozowski 80 - The Role of Theory in Computer Science

CECC 2015 - 15th Central European Conference on Cryptology

CEQUIP 2015 - Central European Information Processing Workshop 2015

CSR 2015 - 10th International Computer Science Symposium

DCFS 2015 - Descriptional Complexity of Formal Systems 2015

DLT 2015 - 19th International Conference on Developments in Language Theory

ESCIM 2015 - 7th European Symposium on Computational Intelligence and Mathematics

Glances@Manifolds - Glances at Manifolds

ICRAPAM 2015 - International Conference on Recent Advances in Pure and Applied Mathematics

IECMSA-2015 - 4th International Eurasian Conference on Mathematical Sciences and Applications

MNA 2015 - Mathematics in Nature and Arts

nonComm 2015 - Noncommutative Workshop

ODAM 2015 - Olomoucian Days of Applied Mathematics 2015

PanMath 2015 - Panorama of Mathematics 2015

PPAM 2015 - 11th International Conference on Parallel Processing and Applied Mathematics

SACI 2015 - 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics

SSAOS 2015 - Summer School on Algebra and Ordered Sets 2015

STAKAN 2015 - Konference STAtističtí KANtoři 2015

TACL 201|5 - Topology, Algebra and Categories in Logic 2015

TPSZP 2015 - Teorie a praxe statistického zpracování dat

WkShopTutte 2015 - Workshop on New Directions for the Tutte Polynomial: Extensions, Interrelations, and Applications

XXIX ISCRFT - XXIX International Summer Conference on Real Functions Theory