

Matematický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2018**

Bratislava
január 2019

Obsah osnovy Správy o činnosti organizácie SAV za rok 2018

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Matematický ústav SAV

Riaditeľ: doc. RNDr. Karol Nemoga, CSc.

Zástupca riaditeľa: prof. RNDr. Anatolij Dvurečenskij, DrSc.

Vedecký tajomník: Mgr. Marek Hyčko, PhD.

Predseda vedeckej rady: Mgr. Anna Jenčová, DrSc.

Člen snemu SAV: doc. RNDr. Karol Nemoga, CSc.

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Názvy a adresy detašovaných pracovísk:

- **Oddelenie informatiky Matematického ústavu SAV**
Dúbravská cesta 9, 841 04 Bratislava
- **Detašované pracovisko Matematického ústavu SAV v Košiciach**
Grešákova 6, 040 01 Košice
- **Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**
Žumbierska 1, 974 11 Banská Bystrica

Vedúci detašovaných pracovísk:

- **Oddelenie informatiky Matematického ústavu SAV**
doc. Ing. Gabriel Okša, CSc.
- **Detašované pracovisko Matematického ústavu SAV v Košiciach**
doc. RNDr. Roman Frič, DrSc.
- **Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**
prof. RNDr. Beloslav Riečan, DrSc. (do 13. 8. 2018)
prof. RNDr. Roman Nedela, DrSc. (od 14. 8. 2018)

Typ organizácie: Rozpočtová od roku 1959

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

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

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2018 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2018 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

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

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

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	1	3	3	3	4	1	8	7	6
Ženy	0	0	4	0	2	2	1	3	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

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

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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

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

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

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

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

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

V r. 2018 sme pokračovali v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

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

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

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

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

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2018

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

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2018

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

*

1. Operačný program: 313000 - Operačný program Výskum a inovácie

Žiadateľ: Matematický ústav SAV

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

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-10

Kód žiadosti: NFP313010T634

Požadovaná výška NFP: 1 239 037,76 €

Podané: 23.11.2018

2.

Operačný program: 313000 - Operačný program Výskum a inovácie

Žiadateľ: Matematický ústav SAV

Názov projektu: *Matematická podpora kvantových technológií*

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-09

Kód žiadosti: NFP313010T683

Požadovaná výška NFP: 1 087 916,53 €

Podané: 23. 11. 2018

3.

Stimuly:

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

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

Požadovaná celková čiastka: 1 329 136,03 EUR

Požadovaná čiastka pre MÚ SAV: 272 504,00 EUR

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

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty 7. RP EÚ a Horizont 2020	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)	0	1	-	-	-	-	-	10000
9. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2018

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	A	B
Počet podaných projektov Horizont 2020		

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

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

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

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Bežiacie vlny v PT-symetrických nelineárnych metamateriáloch

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

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

Projekt: VEGA 2/0153/16

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

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

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

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

Project: VEGA 2/0153/16

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

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Vlastnosť SEKP pre monounárne algebry

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

Autor: E. Halušková

Projekt: VEGA 2/0044/16

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

Strong Endomorphism Kernel Property for monounary algebras

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

Author: E. Halušková

Projekt: VEGA 2/0044/16

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

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Evakuácia dvoch robotov z viacerých neznámych brán na kruhu

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

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

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

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

Projekt: NSERC Discovery grant

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

Evacuating two robots from multiple unknown exits in a circle

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

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

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

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

Projects: NSERC Discovery grant

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

2.3.2. Aplikačný typ

Passívne memristorové synaptické okruhy

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

koincidenčnú adaptáciu. Kombinácia týchto spôsobov adaptácie je jedným možným riešením problému katastrofického zabúdania v neurónových sieťach.

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

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

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

Passive memristor synaptic circuits

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

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

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

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

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Zovšeobecnená polynomiálna komparatívna kalibrácia: Odhady parametrov a aplikácie

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

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

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

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

Generalized Polynomial Comparative Calibration: Parameter Estimation and Applications

Described were methods and algorithms, based on using the classical regression approach used for the errors-in-variable model and applied it for the comparative calibration with the generalized polynomial calibration function. The present approach is based on strictly metrologist

considerations. The inputs quantities are fully characterized by their state-of-knowledge distributions, derived from the associated uncertainty budgets of the direct measurements from the calibration experiment, which allows to combine type A and type B methods of evaluation of the measurements, as well as to incorporate correlated measurements with the comparative calibration, i.e. with the situation when both variables entering the calibration experiment are subject to errors (including the used measurement standard). On a real example is the whole procedure illustrated. Appendixes incorporate all needed theoretical results.

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

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

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

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Využitie učenia posilňovaním pri riadení prepravy plynu

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

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

Projekt: 1235 Optimalizácia prepravy plynu tranzitným plynovodom

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

Reinforcement learning utilization in gas transport control

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

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

Project: 1235 Gas transport optimization through transit pipelines

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

2.3.3. Medzinárodné vedecké projekty

Šarkany a reziduované zväzy

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

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

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

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

Kites and residuated lattice

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

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

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

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

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Rozsahy akceptačných stavových zložitostí jazykov

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

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

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

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

The Ranges of Accepting State Complexities of Languages

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

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

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

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

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O generujúcich množinách klonovacích agregačných funkcií na konečných zväzoch

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

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

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

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

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

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

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

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

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

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2018/ doplňky z r. 2017
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	1 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	1 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	39 / 4
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)	28 / 1
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	6 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	3 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	2 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	1 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	1
18. Ostatné vydané periodiká	2
19. Zostavovateľské práce knižného charakteru (FAI)	2 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2017 (zdroj JCR) <i>Počet článkov / doplnky 2016</i>	13 / 0	15 / 3	9 / 1	8 / 0	45 / 4
Podľa SJR z r. 2017 (zdroj Scimago) <i>Počet článkov / doplnky 2016</i>	20 / 1	23 / 2	14 / 1	8 / 0	65 / 4

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2017/ doplnky z r. 2016
Citácie vo WOS (1.1, 2.1)	961 / 12
Citácie v SCOPUS (1.2, 2.2)	69 / 2
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	23 / 5
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	74
Prednášky a vývesky na domácich vedeckých podujatiach	7

Účasť a vedenie seminárov

Interný seminár o výsledkoch detašovaného pracoviska MÚ SAV v Košiciach

vedúci: R. Frič

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

účasť: G. Jirásková, P. Mlynárčik

Seminár z kvantových logík

vedúci: A. Dvurečenskij, S. Pulmannová

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

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

Seminár z topológie a teórie množín na PF UPJŠ

vedúci: L. Bukovský (PF UPJŠ)

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

Seminár o fuzzy logike a pravdepodobnosti na PF UPJŠ

vedúci: S. Krajčí (PF UPJŠ)

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

Seminár z usporiadaných štruktúr na PF UPJŠ

vedúci: D. Studenovská-Jakubíková (PF UPJŠ)

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

Set-Valued Analysis

vedúci: Ľ. Holá

účast': B. Novotný

Seminár z teoretickej informatiky

vedúci: G. Jirásková

účast': G. Jirásková

Seminár z algebraickej a diferenciálnej topológie na FMFI UK

vedúci: T. Macko

referáty: T. Macko (4x)

Seminár z algebraickej geometrie na FMFI UK

vedúci: P. Chalmoviansky (FMFI UK)

referáty: T. Macko

Seminár z algebraickej a diferenciálnej topológie

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

vedúci: M. Čadek (MU Brno), T. Macko

referáty: T. Macko

účast': J. Korbaš

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

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

účast': J. Pócs

Konvexné štruktúry a kategórie na MÚ SAV

vedúci: G. Jenča (SvF STU, Bratislava)

referáty: A. Jenčová (2x), M. Plávala

účast': S. Pulmannová

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. **DVUREČENSKIĀ, A.:** *EMV-algebras-Extended MV-algebras*, Algebra and Substructural Logics, Take 6 (AsubL Take 6), Cagliari, Taliansko, 10.–15. 6. 2018.
2. **JENČOVÁ, A.:** *Incompatible measurements in general probabilistic theories*, Quantum Information Theory and Mathematical Physics 2018, Budapešť, Maďarsko, 20.–23. 9. 2018.
3. **JENČOVÁ, A.:** *Rényi relative entropies and sufficiency of quantum channels*, Beyond I.I.D. in Information Theory, Isaac Newton Institute, Cambridge, UK, 23.–27. 7. 2018.
4. **JENČOVÁ, A.:** *A geometric view on quantum incompatibility*, Three Days in quantum Mechanics, Genoa, Taliansko, 6.–8. 6. 2018.
5. **JIRÁSKOVÁ, G.:** *Deterministic blow-ups of nondeterministic finite automata*, International Workshop DLT's Satellite Workshop 2018, Kyoto, Japan, 5.–7. 9. 2018.
6. **NEDELA, R.:** *Skew morphisms of cyclic groups and regular dessins*, International Workshop on Symmetries of Graph and Networks 2018 (IWSGN 2018), Sanya, China, 25. 1.–3. 2. 2018.
7. **NEDELA, R.:** *Skew morphisms of groups, regular maps and dessins*, The Third International Conference On Group Actions and Transitive Graphs, SUSTECH, Shenzhen, China, 12.–14. 10. 2018.

8. **NEDELA, R.:** *Graph coverings and harmonic morphisms on graphs*, 30th Workshop on Topological Graph Theory, Yokohama, Japonsko, 24.–26. 10. 2018.
9. **PLÁVALA, M.:** *Incompatibility in general probabilistic theory*, IQSA Quantum Structures 2018, Kazaň, Rusko, 16.–20. 7. 2018.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. **HOLÁ, Ľ.— HOLÝ, D.:** *Compactness in function spaces*, Univerzita v Perugii, Department of Mathematics and Computer Sciences, 20. 11. 2018.
2. **PLÁVALA, M.:** *No-free-information principle in general probabilistic theories*, Perimeter Institute for Theoretical Physics, Waterloo, Kanada, 4. 12. 2018.
3. **VAJTERŠIC, M.:** *Fast biharmonic solver based on orthogonal matrix decomposition*, Blavatnik School of Computer Science, Tel Aviv University, Tel Aviv, Izrael, 8. 5. 2018.
4. **VAJTERŠIC, M.:** *Parallelization approaches for SVD based on block Jacobi methods*, Department of Computer Sciences, Hebrew University, Jerusalem, Izrael, 9. 5. 2018.
5. **VAJTERŠIC, M.:** *Image reconstruction and retrieval with parallel Singular Value Decomposition (SVD)*, Faculty of Information Technology, Czech Technical University, Prague, ČR, 4. 6. 2018.
6. **VAJTERŠIC, M.:** *Parallel nonnegative matrix factorization (NMF) and its applications*, Faculty of Information Technology, Czech Technical University, Prague, ČR, 6. 6. 2018.
7. **VAJTERŠIC, M.:** *Matrix decomposition methods applied to selected problems of parallel numerics*, Polish-Japanese Academy of Information Technology, Warsaw, Poľsko, 14. 6. 2018.
8. **VAJTERŠIC, M.:** *Some examples and notes on algorithms for parallel computers*, Slovak Technical University in Bratislava, Faculty of Informatics and Information Technology, Bratislava, 1. 10. 2018.
9. **VAJTERŠIC, M.:** *Some examples of algorithms for parallel supercomputers*, Faculty of Natural Sciences, Matej Bel University, Banská Bystrica, 8. 11. 2018.

2.6.4. Prednášky na medzinárodných vedeckých podujatiach

1. **BABICOVÁ (rod. ŠTIBEROVÁ), D.:** *Stochastic independence/dependence in fuzzified probability theory*, 19th International Student Conference on Applied Mathematics and Informatics, ISCAMI 2018, Malenovice, ČR, 10.–13. 5. 2018.
2. **BEČKA, M.:** *New preconditioning for the parallel one-sided block-Jacobi SVD algorithm*, PMAA '18, Zurich, 27.–29. 6. 2018.
3. **BORSÍK, J.:** *Points of uniform convergence and quasicontinuity*, 32nd International Summer Conference on Real Functions Theory 2018, Stará Lesná, 2.–7. 9. 2018.
4. **BUTKA, P.— PÓCS, J.— PÓCSOVÁ, J.:** *Isotone Galois connections and generalized one-sided concept lattices*, MISSI 2018, Wroclaw, 12-14.9.2018.
5. **ČUNDERLÍKOVÁ, K.:** *The Pickands-Balkema-de Haan theorem for intuitionistic fuzzy events*, 22th International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulgaria, 12.–13. 5. 2018.
6. **ČUNDERLÍKOVÁ, K.:** *Convergence of intuitionistic fuzzy observables*, The 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets to the memory of Professor Beloslav Riečan (1936-2018), IWIFSGN'2018 Warsaw, Poland, 27.–28. 9. 2018.
7. **ĐURIŠ, S.— ĐURIŠOVÁ, Z.— WIMMER, G.— ADAM, P.:** *Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material*, XXII World Congress of the International Measurement

- Confederation (IMEKO), Institute of Measurement and Control, Waterfront Centre in Belfast, UK, 3.–6. 9. 2018.
8. ĎURIŠ, S.— ĎURIŠOVÁ, Z.— **WIMMER, G.**— WITKOVSKÝ, V.— PAVLÁSEK, P.— PALENČÁR, J. : *Determination of certified value and its uncertainty by several methods showed on gaseous primary reference material of ethanol in nitrogen prepared by gravimetric method*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.
 9. **ELIAŠ, P.**: *A Galois connection related to restrictions of continuous real functions*, 32nd International Summer Conference on Real Functions Theory, Stará Lesná, 2.–7. 9. 2018.
 10. FLATZ, M.— KUTIL, R.— **VAJTERŠIC, M.**: *Parallelization of the hierarchical alternating least squares algorithm for nonnegative matrix factorization*, 4th International Forum Research and Technologies for Society and Industry (IEEE RTSI 2018), Palermo, Italy, 10.–13. 9. 2018.
 11. **FRIČ, R.**: *Product of measurable spaces and applications*, The 32nd International Summer School on Real Functions Theory Stará Lesná, 2.–7. 9. 2018.
 12. **FRIČ, R.**— **PAPČO, M.**: *Fuzzy stochastic channel and asymmetrical stochastic independence I*, The 14th International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, 28. 1.–2. 2. 2018.
 13. **FRIČ, R.**— **PAPČO, M.**: *Fuzzy stochastic channel and asymmetrical stochastic independence II*, The 14th International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, 28. 1.–2. 2. 2018.
 14. HALAŠ, R.— MESIAR, R.— **PÓCS, J.**: *Composition based generation of aggregation functions on real interval*, FSTA 2018, Liptovský Ján, 28.1.-2.2.2018
 15. HALAŠ, R.— MESIAR, R.— **PÓCS, J.**: *A note on generating sets for aggregation clones on finite lattices*, ISAS 2018, Valladolid, 2.–5. 7. 2018.
 16. HALAŠ, R.— **PÓCS, J.**: *On some algebraic properties of discrete Sugeno integrals: composition and associativity*, MDAI 2018, Palma de Mallorca, 15.–18. 10. 2018.
 17. **HALUŠKA, J.**: *The Euclidean space E_3 as an algebraic field*, AALCS XXII, Zakopane, Poľsko, 5.–10. 3. 2018.
 18. **HALUŠKOVÁ, E.**: *The endomorphism kernel property for (non-connected) monounary of algebras*, AAA95, Bratislava, 8.–11. 2. 2018.
 19. **HALUŠKOVÁ, E.**: *On limit closed classes of algebras*, AALCS XXII, Zakopane, Poľsko, 5.–10. 3. 2018.
 20. **HALUŠKOVÁ, E.**: *Some monounary algebras with EKP*, SSAOS, Špindleruv Mlýn, Česko, 2.–7. 9. 2018.
 21. HOLZER, M.— **HOSPODÁR, M.**: *The range of state complexities of languages resulting from the cut operation*, DLT's Satellite Workshop in Kyoto, Japonsko, 5.–7. 9. 2018.
 22. **HOSPODÁR, M.**— **JIRÁSKOVÁ, G.**— **KRAJŇÁKOVÁ, I.**: *Operations on Boolean and alternating finite automata*, CSR 2018, Moskva, Rusko, 6.–10. 6. 2018.
 23. **HOSPODÁR, M.**— **PALMOVSKÝ, M.**: *Nondeterministic complexity of power and positive closure on subclasses of convex languages*, DLT's Satellite Workshop in Kyoto, Japonsko, 5.–7. 9. 2018.
 24. **HYČKO, M.**: *Hyper pseudo effect algebras*, FSTA 2018, Liptovský Ján, 29. 1.–2. 2. 2018.
 25. **JENČOVÁ, A.**: *Rényi relative entropies and noncommutative L_p -spaces*, 18th Workshop: Noncommutative Probability, Operators Algebras, Random Matrices and Related Topics, with Applications, Bedlewo, Poľsko, 15.–21. 7. 2018.
 26. **JENČOVÁ, A.**: *Sufficiency of quantum channels by Rényi divergences*, Quantum Statistics and Related Topics, Lodz, Poľsko, 6.–8. 12. 2018.

27. **JIRÁSKOVÁ, G.**— OKHOTIN, A.: *State complexity of unambiguous operations on deterministic finite automata*, Descriptive Complexity of Formal Systems 2018, Halifax, Canada, 25.–27. 7. 2018.
28. **JIRÁSKOVÁ, G.**— OKHOTIN, A.: *Towards exact state complexity bounds for input-driven pushdown automata*, Developments in Language Theory 2018, Tokyo, Japan, 10.–14. 9. 2018.
29. **KORBAŠ, J.**: *An explicit formula for the cup-length of $SO(n)$* , CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.
30. **MACKO, T.**: *On the cardinality of the manifold set*, CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.
31. **MICHALÍKOVÁ, A.**— **RIEČAN, B.**: *On some methods of probability*, 22th International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulgaria, 12.–13. 5. 2018 (prezentovala A. Michalíková).
32. **MICHALÍKOVÁ, A.**— **RIEČAN, B.**: *On states on fuzzy MV-algebra*, 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets (IWIFSGN'2018), Warsaw, Poland, 27.–28. 9. 2018 (prezentovala A. Michalíková).
33. **NEDELA, R.**: *Cayley cubic graphs of small girth*, CLX Seminar, Mikulov, ČR, 5.–8. 2. 2018.
34. **NEDELA, R.**: *Hamilton cycles in cubic Cayley graphs of small girth*, Graphs, Groups and More, Koper, Slovenia, 20. 5.–3. 6. 2018.
35. **NEDELA, R.**: *Representation of the automorphism group of a graph in the automorphism group of its Jacobian*, CSASC 2018, Slovak University of Technology in Bratislava, 11.–14. 9. 2018.
36. **NOVOTNÝ, B.**— **HOLÁ, Ľ.**: *Space of real-valued minimalusco maps*, The 32nd International Summer Conference on Real Functions Theory, Stará Lesná, 2.–7. 9. 2018.
37. **NOVOTNÝ, B.**— **HOLÁ, Ľ.**: *Properties of the space of minimal convexusco maps*, 2018 International Conference on Topology and its Applications, Nafpaktos, Greece, 7.–11. 7. 2018 (Prezentoval B. Novotný).
38. **OKŠA, G.**— YAMAMOTO, Y.— **BEČKA, M.**— **VAJTERŠIČ, M.**: *Asyptotic quadratic convergence of the two-sided parallel block-Jacobi SVD algorithm*, PMAA18, Zurich, Switzerland, 27.–29. 6. 2018.
39. **PLÁVALOVÁ, E.**— ROASEV, A.: *The method of relative velocity calculation for the study of very young asteroid families and pairs*, XXXth General Assembly of the International Astronomical Union, Vienna, 20.–31. 8. 2018.
40. **PLOŠČICA, M.**: *Congruence FD-maximal algebras*, Summer School on General Algebra and Ordered Sets, Špindlerův Mlýn, ČR, 2.–9. 9. 2018.
41. **RÁBOŇOVÁ, P.**— **WIMMER, G.**: *Konfidenčné oblasti pre koeficienty kalibračnej funkcie*, ROBUST 2018, 20. zimná škola JČMF. Rybník, ČR, 21.–26. 1. 2018.
42. **RIEČAN, B.**: *On states on fuzzy sets*, FSTA 2018, Liptovský Ján, 28. 1.–2. 2. 2018.
43. **VINCEKOVÁ, E.**: *Ideals, congruences and RDP on unitizations of generalized pseudo effect algebras*, AAA 95, Bratislava, 9.–11. 2. 2018.
44. **WIMMER, G.**— **PAVLÁSEK, P.**— **PALENČÁR, R.**— **ŽURIŠ, S.**— **PALENČÁR, J.**— **MANIUR, M.I.**: *Possibilities in improving platinum resistance thermometer calibration*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.
45. **WIMMER, G.**— **WITKOVSKÝ, V.**: *Revisited S4 from EA-4/02. Calibration of a gauge block of nominal length 50 mm*, Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018), Kochubey Center, Pushkin, St. Petersburg, Russia, 158-159, VNIIM – D.I. Mendeleyev Institute for Metrology, St. Petersburg, Russia, 29.–31. 5. 2018.

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

2.6.5. Prednášky na domácich vedeckých podujatiach

1. **BABICOVÁ** (rod. **ŠTIBEROVÁ**), **D.:** *Od klasickej ku deliteľnej pravdepodobnosti*, 50. konferencia slovenských matematikov, Jasná, 22.–25. 11. 2018.
2. **ČUNDERLÍKOVÁ, K.:** *A memorial to Professor Beloslav Riečan*, Workshop on Intuitionistic fuzzy sets in memoriam Beloslav Riečan, Banská Bystrica, 26. 9. 2018.
3. **ČUNDERLÍKOVÁ, K.:** *Upper and lower limits and m -almost everywhere convergence of intuitionistic fuzzy observables*, Workshop on Intuitionistic fuzzy sets in memoriam Beloslav Riečan, Banská Bystrica, 26. 9. 2018.
4. **HALUŠKOVÁ, E.:** *On real functions and monounary algebras*, 19. konferencia košických matematikov, Herľany, 12.–14. 4. 2018.
5. **HALUŠKOVÁ, E.:** *Monounárne algebry a reálne funkcie*, 50. konferencia košických matematikov, Jasná pod Chopkom, 23.–25. 11. 2018.
6. **HOLZER, M.**— **HOSPODÁR, M.:** *Complexity of languages resulting from the cut operation in the unary case*, NCMA 2018, Košice, 21.–22. 8. 2018.
7. **HOSPODÁR, M.**— **PALMOVSKÝ, M.:** *Nondeterministic complexity of power and positive closure on subclasses of convex languages*, NCMA 2018, Košice, 21.–22. 8. 2018.

2.6.6. Prednášky na významných vedeckých inštitúciách

1. **BABICOVÁ** (rod. **ŠTIBEROVÁ**), **D.:** *State as a linearization and a stochastic (in)dependence in the generalized probability theory*, Research Centre for Quantum Social and Cognitive Science (IQSCS), University of Leicester - IQSCS seminar, Leicester, UK, 2. 3. 2018.
2. **JIRÁSKOVÁ, G.:** *Operations on languages represented by unambiguous finite automata*, Department of Computer Science, University of Saskatchewan, seminár, Saskatoon, Canada, 7. 8. 2018.
3. **JIRÁSKOVÁ, G.:** *Operations on languages represented by unambiguous finite automata*, Department of Computer Science, Kyoto Sangyo University, seminár, Kyoto, Japan, 8. 9. 2018.
4. **MACKO, T.:** *On the cardinality of the manifold set*, Masarykova Univerzita, Brno, ČR, 23. 3. 2018.
5. **NEDELA, R.:** *Linear representations of automorphism groups, Jacobians and Homology groups of graphs*, Tohoku University, Sendai, Japonsko, 30. 10. 2018.
6. **NEMOGA, K.:** *Postquantum secure group communication*, Otvárací seminár projektu NATO SPS SPS G5448 "Secure Communication in the Quantum Era", Univ. Malta, Malta, 27. 7. 9.–1. 10. 2018.
7. **PLÁVALA, M.:** *Introduction to general probabilistic theories*, University of Turku, Turku, Fínsko, 15. 2. 2018.
8. **PLÁVALA, M.:** *No-free-information principle in general probabilistic theories*, University of Turku, Turku, Fínsko, 28. 5. 2018.
9. **VAJTERŠIČ, M.:** *ERASMUS+ Course on HPC Methods and Applications*, Tel Aviv University, Blavatnik School of Computer Science, Tel Aviv, 8.–17. 5. 2018.
10. **VAJTERŠIČ, M.:** *ERASMUS+ Course on Parallel Algorithms for HPC*, Czech Technical University, Faculty of Information Technology, Prague, ČR, 4.–8. 6. 2018.

2.6.7. Ostatné prednášky a vývesky

1. **MRAČKA, I.—ŽÁČIK, T.—HAJOSSY, R.—HYČKO, M.:** *Reinforcement learning in gas transport control*, PSIG 2018, Deer Valley, Utah, USA, 15.–18. 5. 2018 (prezentoval I. Mračka).
2. **NEMOGA, K.:** *Challenges and Opportunities for Europe*, Open Data in Science, Brusel, Belgicko, 31. 1. 2018.
3. **NEMOGA, K.:** *Open Science publishing in Slovakia*, ALLEA Workshop: Ethical aspects of Open Access: A Windy Road, Brusel, Belgicko, 1. 2. 2018.

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

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

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2018 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Plávala Martin	AXA Nadačný fond v Nadácii Pontis	20

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

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

2.11. Iné informácie k vedeckej činnosti.

Ostatné dosiahnuté výsledky:

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

- Navrhli a implementovali sme nový paralelný algoritmus na výpočet SVD, ktorý je pre dobre podmienené matice rýchlejší ako najrýchlejší z algoritmov knižnice SCALAPACK.
- Boli charakterizované body rovnomernej konvergenzie pre kvázispojité funkcie.
- Bola dokázaná Pickandsova-Balkemaova-de Haanova veta pre intuicionistické fuzzy udalosti. Ide o druhú dôležitú vetu z teórie extrémnych hodnôt, ktorá je časťou štatistiky. Podarilo sa zaviesť horné a dolné limity a sformulovať konvergenciu skoro všade pomocou stavov a horných a dolných limit pre postupnosť intuicionistických fuzzy pozorovateľných.
- Zaoberali sme sa modelom Stieltjesovej struny na fixovanom intervale s nelokálnymi okrajovými úlohami. Našli sme optimálne podmienky pre jeho jednoznačnú riešiteľnosť.
- Využívajúc jedno-jednoznačný vzťah medzi pozorovateľnými a spektrálnymi rozkladmi na σ -úplných MV-efektových algebrách sme definovali súčet pozorovateľných. Vzhľadom k Olsonovskému usporiadaniu, systém všetkých ohraničených pozorovateľných tvorí Dedekindovskú σ -l-grupu so silnou jednotkou.
- Definujeme usporiadanie na množine ohraničených Markovovských jadier združených s tribom fuzzy množín. Ukázali sme, že vzhľadom k tomuto usporiadaniu, množina ohraničených Markovovských jadier je Dedekindovská σ -úplná l-grupa. Definujeme tiež súčet ohraničených Markovovských jadier takže množina ohraničených Markovovských jadier je zväzovo usporiadaná semigrupa.
- Študovali sme pozorovateľné na monotónne σ -úplných Dedekindovských efektových algebrách a ukázali sme podmienky, kedy spektrálny rozklad implikuje existenciu odpovedajúcej pozorovateľnej.
- Študovali sme stavy na pseudo MV-algebrách s hodnotami v Rieszovom priestore.
- Skúmali sme materiálne implikácie vo zväzových efektových algebrách.
- Študoval sa vzťah medzi injektívnymi MV-algebrami a epi-úplnými MV-algebrami. Ukázali sme, že trieda deliteľných MV-algebier sa zhoduje s triedou epi-úplných MV-algebier.
- Pre novú triedu, zvanú EMV-algebry, sme definovali voľné EMV-algebry na množine generátorov X . Ak X je konečná množina, potom voľná EMV-algebra nad X je ekvivalentná s voľnou EMV-algebrou na X . Ak X je nekonečná množina, platí to isté ale pre tzv. slabú voľnú EMV-algebru.
- Študovali sme Galoisovu konexiu určenú rozširovaním spojitých reálnych funkcií. Boli popísané úplné zväzy generované touto konexiou intervalmi reálnych funkcií a charakterizované systémy funkcií generujúce príslušné zväzy.
- Ukázali sme existenciu bežiacich vln v analytickom ako aj numerickom tvare pre modely metamateriálov. Pomocou teórie bifurkácií sme skúmali jednorozmerný systém nekonečne veľa spriahnutých nelineárnych elektronických obvodov.
- Pomocou pojmu stochastického kanálu boli popísané vlastnosti spoločného experimentu, pričom určujúcu pozorovateľnú možno interpretovať ako podmienenú pravdepodobnosť.
- Nech X je lokálne kompaktný topologický priestor, (Y, d) ohraničene kompaktný topologický priestor a $LB(X, Y)$ je priestor všetkých lokálne ohraničených funkcií z X do Y . Charakterizujeme kompaktné podmnožiny priestoru $LB(X, Y)$ vybaveného topológiou rovnomernej konvergenzie na kompaktoch.
- Klamúca množina pre regulárny jazyk je špeciálna množina dvojíc reťazcov, ktorej veľkosť poskytuje dolnú hranicu na počet stavov v ľubovoľnom nedeterministickom konečnom automate akceptujúcom daný jazyk. Upravili sme túto metódu klamúcej množiny v prípade, ak viac počiatočných stavov môže ušetriť jeden stav. Tieto vylepšenia sú: klamúca množina pre automat, $\{q\}$ -lema, trim-lema a lema o dosiahnuteľných a kodosiahnuteľných množinách pre doplnok.
- Skúmali sme popisnú zložitosť základných regulárnych operácií na jazykoch reprezentovaných booleovskými a alternujúcimi automatmi. Konkrétne, uvažujeme operácie rozdielu, symetrického rozdielu, uzáveru, zrkadlového obrazu, ľavého kvocientu a pravého kvocientu a dostaneme tesné horné hranice $m+n$, $m+n$, $2n$, $2n$, m a $2m$ pre booleovské

automaty, a $m+n+1$, $m+n$, $2n$, $2n$, $m+1$ a $2m+1$, pre alternujúce konečné automaty. Na popísanie witnessov pre symetrický rozdiel používame ternárnu abecedu. Všetky ostatné witnessy sú definované nad binárnou alebo unárnou abecedou, o ktorej dokazujeme, že je optimálna.

- Skúmali sme stavovú zložitosť jazykov, ktoré sú výsledkom operácie strojového zreťazenia dvoch unárnych regulárnych jazykov reprezentovaných minimálnymi deterministickými konečnými automatmi s m a n stavmi. Ukážeme, že iba zložitosti nanajvyš $2m-1$ a medzi n a $m+n-2$ môžu byť dosiahnuté, zatiaľ čo ak $2m$ je menej ako $n-1$, potom zložitosti od $2m$ do $n-1$ nemôžu byť dosiahnuté.
- Skúmanie ďalších vlastností hyper pseudo efektových algebier.
- Bolo dokázané, že spektrálna efektová algebra má buď práve jeden alebo nespočítateľne veľa kontextov. Študovali sa aj ďalšie vlastnosti: našli sme podmienku, za ktorej je množina ostrých prvkov ortomodulárnym zväzom.
- Pre atomické von Neumannove algebry sme dokázali, že ak existuje normálny verný invariantný stav pre daný kanál, potom jeho decoherence-free podalgebra je oborom hodnôt vernej normálnej podmienenej strednej hodnoty, z čoho vyplývajú jej špeciálne vlastnosti, napr., je vždy atomická. Skúmali sme aj štruktúru tejto podalgebry, jej vzťah s podalgebrou pevných bodov kanálu a s tým súvisiaci pojem periódy pre reducibilné kanály.
- Dokázali sme, že tenzorový súčin (v kategórii efektových algebier) dimenzných efektových algebier je dimenzná efektová algebra.
- Zistili sme zložitosť jednoznačných operácií na deterministických automatoch.
- Upresnili sme horné a dolné odhady na zložitosť operácií na vstupom riadených zásobníkových automatoch.
- Získali sme presnú hodnotu stavovej zložitosti kombinovanej operácie star-complement-star.
- Študovali sme rekurzívne redukcie grafov pre ktoré je každý 3-zafarbiteľný lokálne súvislý podgraf nahradený trojuholníkom pričom vrcholy s rovnakou farbou sú redukované do jedného vrcholu. Existuje jedno-jednoznačná korešpondencia medzi 3-farbeniami pôvodného grafu a výsledného grafu vzniknutom po redukcii. Pomocou tohto princípu charakterizujeme triedy 3-zafarbiteľných grafov a zavádzame polynomiálne algoritmy ktoré rozpoznávajú grafy z týchto tried a vytvárajú 3-farbenia grafov z týchto tried.
- Skúmali sme problém vektorových polí na projektívnych Stiefelových varietach a problém určenia explicitnej formuly pre pohárovú dĺžku týchto variet (2 články).
- Boli dotiahnuté detaily v štúdiu akcie grupy homotopických ekvivalencií $hAut(X)$ na štruktúrnej množine variety $S(X)$, v jednoducho súvislom prípade, v nejednoducho súvislom prípade, aj v hladkej verzii.
- Študovali sme štruktúrnú množinu $S(L \times D)$ súčinu $L \times D$ šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Nadviazali sme na predchádzajúce práce a ukázali sme zovšeobecnenie formuly C.T.C. Walla pre rho-invariant šošovkového priestoru na prípad, keď máme súčin $L \times D$ šošovkového priestoru a disku. Túto formulu sme potom použili pri našich výpočtoch. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny $S(L \times S)$ súčinu $L \times S$ šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.
- V nadväznosti na prípravné práce z minulého roku, sme pri chirurgických prekážkach v párných aj v nepárnych dimenziách dosiahli veľmi všeobecné formulácie pomocou lokálnych koeficientov. Výsledky budú v pripravovanej monografii o základoch teórie chirurgií. Týmto sme odstránili niektoré chyby, ktoré sa tradične objavovali v mnohých prácach v tejto oblasti.
- Študovali sme priestor konvexných minimálnych usco zobrazení. Jeho vlastnosti ako úplná metrizovateľnosť, prvá a druhá axioma spočítateľnosti. Prvky tohto priestoru sú multifunkcie, ktoré sú dôležité napr. pri štúdiu subdiferenciálov konvexných funkcií. Preskúmali sme aproximáciu konvexných minimálnych usco zobrazení spojitými funkciami.

- Bola dokázaná asymptotická kvadratická konvergencia sériového a paralelného blokového Jacobiho algoritmu pre SVD matíc s dynamickým orderingom.
- Preskúmali sme kongruenčnú FD-maximálnosť pre viaceré typy algebier, predovšetkým pre také, v ktorých priesečovo ireducibilné kongruencie tvoria usporiadanú množinu dĺžky najviac 2.
- Boli študované rôzne generujúce množiny agregáčného klonu a taktiež klonu idempotentných agregáčnych funkcií na konečných zväzoch. Ako jeden z hlavných výsledkov bola dosiahnutá redukcia doposiaľ známeho minimálneho počtu generátorov príslušných klonov.
- Na zovšeobecnených pseudoefektových algebrách bol zavedený nový typ kongruencie, tzv. R1-kongruencie, ktoré sú v 1-1 korešpondencii s R1-ideálmi. Boli nájdene podmienky, za ktorých kongruencie a ideály môžu byť rozšírené na unitizáciu zovšeobecnenej pseudoefektivej algebry.
- Bol ukázaný vzťah medzi Banachovými synaptickými algebrami a JB-algebrami, resp. AJW-algebrami.
- Alternatívne parciálne usporiadanie, tzv. spektrálne usporiadanie, bolo zavedené na synaptických algebrách. Bolo ukázané, že Banachova synaptická algebra je vzhľadom na toto usporiadanie Dedekindov σ -úplný zväz.
- Získali sa výsledky o kardinálnych invariantoch topologických priestorov nerozlišujúcich ideálové konvergencie postupností spojitých reálnych funkcií.
- Použili sme paralelizovanie algoritmu HALS (Hierarchical Alternative Least Squares) na výpočet NMF (Nonnegative Matrix Factorization).
- Vybudoval sa model komparatívnej kalibrácie s polynomicou kalibračnou funkciou. Model pripúšťa uvažovať možnosť korelovaných meraní, pričom sa uvažujú okrem kolísania dát (s normálnym rozdelením – neistoty typu A) aj korekcie typu B (s expertným určením rozdelenia). Z matematicko-štatistického pohľadu po linearizovaní modelu dostávame lineárny model s chybami v premenných. Určil sa najlepší lineárny nevychýlený odhad parametrov kalibračnej funkcie ako aj jeho kovariančná matica.
- Bol navrhnutý alternatívny pohľad na riešenie Príkladu S4 (kalibrácia meradla nominálnej dĺžky 50 mm) z technického doporučenia EA-4/02 a výsledky boli získané (i) pomocou metrologickej normy GUM, (ii) MCM metódou (pomocou Monte Carlo simulácií) a (iii) Metódou CFA (Characteristic Function Approach) založenej na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. Porovnávali sa jednotlivé výsledky a uviedli sa niektoré nové matematické výsledky.
- Dobudoval sa model komparatívnej kalibrácie (prípady, keď merania kalibrovaným prístrojom aj etalónom sú zaťažené chybami) s polynomicou kalibračnou funkciou. Predpokladá sa len kolísanie meraní (bez korekcií). Ukázané sú dve rôzne cesty získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou Kenwardových a Rogerových aproximácií. Získané konfidenčné oblasti sú simulačne porovnávané. Popísaný je aj proces merania kalibrovaným prístrojom.
- Zaoberali sme sa kalibráciou plynnej zmesi etanolu v dusíku o neznámej koncentrácii. Ako matematicko-štatistický model kalibrácie sa použil model s chybami v premenných. Po linearizácii prechádza tento model na lineárny regresný model s lineárnymi podmienkami na parametre. V tomto modeli sa určil najlepší lineárny nevychýlený odhad parametrov kalibračnej priamky spolu s kovariančnou maticou tohto odhadu. Marginálne rozdelenia pravdepodobnosti jednotlivých parametrov boli určené numerickou inverziou ich charakteristických funkcií a ďalej sa generovali náhodné výbery zo združeného rozdelenia využitím gaussovskej kopuly. Združené rozdelenie sa použilo pri určení hodnoty lineárnej kombinácie parametrov kalibračnej priamky, teda hodnoty neznámej koncentrácie.
- Plynne zmesi etanolu v dusíku sa pripravujú pomocou gravimetrickej metódy. Kvapalná zložka – etanol – sa pridáva do fľaše vzduchotesnou injekčnou striekačkou. Presné množstvo

pridanej kvapaliny je určené vážením striekačky. Uvedené sú aplikovateľnosti rôznych prístupov pre analýzu neistôt ako metóda GUM-u, metóda Monte Carlo a metóda prístupu cez charakteristické funkcie.

- Analyzátory dychu sú meracie prístroje, ktoré na Slovensku musia byť overené. Overovanie sa realizuje použitím certifikovaného referenčného materiálu zmesi etanolu v dusíku v 4 úrovniach koncentrácie etanolu. Predložený bol prehľad krokov, ktoré kontrolujú nadväznosť merania od procesu verifikácie až po nadväznosť použitého referenčného materiálu na SI jednotku hmoty kg. Každý jednotlivý krok je popísaný aj so svojimi neistotami.
- Vybudoval sa model komparatívnej kalibrácie s polynomicou kalibračnou funkciou. Model pripúšťa uvažovať možnosť korelovaných meraní, pričom sa uvažujú okrem kolísania dát (s normálnym rozdelením – neistoty typu A) aj korekcie typu B (s expertným určením rozdelenia). Z matematicko-štatistického pohľadu po linearizovaní modelu dostávame lineárny model s chybami v premenných. Určil sa najlepší lineárny nevychýlený odhad parametrov kalibračnej funkcie ako aj jeho kovariančná matica.
- Bol navrhnutý alternatívny pohľad na riešenie Príkladu S4 (kalibrácia meradla nominálnej dĺžky 50 mm) z technického doporučenia EA-4/02 a výsledky boli získané (i) pomocou metrologickej normy GUM, (ii) MCM metódou (pomocou Monte Carlo simulácií) a (iii) Metódou CFA (Characteristic Function Approach) založenej na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. Porovnávali sa jednotlivé výsledky a uviedli sa niektoré nové matematické výsledky. Tento výsledok „Revisited S4 from EA-4/02. Calibration of a gauge block of nominal length 50 mm“ bol prezentovaný na International Seminar Mathematics, statistics and computation to support measurement quality (MSCSMQ 2018), May 29 - 31, 2018, D.I.Mendeleyev Institute for Metrology (VNIIM), St.Petersburg, Russia.
- Dobudoval sa model komparatívnej kalibrácie (prípady, keď merania kalibrovaným prístrojom aj etalónom sú zaťažené chybami) s polynomicou kalibračnou funkciou. Predpokladá sa len kolísanie meraní (bez korekcií). Ukázané sú dve rôzne cesty získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou Kenwardových a Rogerových aproximácií. Získané konfidenčné oblasti sú simulačne porovnávané. Popísaný je aj proces merania kalibrovaným prístrojom. Tento výsledok „Konfidenčné oblasti pre koeficienty kalibračnej funkcie“ bol prezentovaný na medzinárodnej konferencii ROBUST 2018, 20. zimná škola JČMF : Rybník 21.-26. ledna 2018 a publikovaný „Confidence Region for calibration Function Coefficients“ v Measurement Science review, 18, (2018), No.6, 227-235.
- Študovali sme rekurzívne redukcie grafov pre ktoré je každý 3-zafarbitelný lokálne súvislý podgraf nahradený trojuholníkom pričom vrcholy s rovnakou farbou sú redukované do jedného vrchola. Existuje jedno-jednoznačná korešpondencia medzi 3-farbeniami pôvodného grafu a výsledného grafu vzniknutom po redukcii. Pomocou tohto princípu charakterizujeme triedy 3-zafarbitelných grafov a zavádzame polynomiálne algoritmy ktoré rozpoznávajú grafy z týchto tried a vytvárajú 3-farbenia grafov z týchto tried.
- Bola navrhnutá metóda generovania binárnych cirkulantných matic s predpísaným počtom jednotiek pre potreby McElieceovho kryptosystému. Boli navrhnuté teoretické modely pre analýzu vlastností funkcie náhodného povrchu. Modely boli riešené implementáciou štatistických metód, Fourierovej analýzy a multifraktálvej analýzy.
- Experimentálne boli študované procesy Ramanovského rozptylu a určované spektrálne reflektancie v UV-VIS spektrálnej oblasti v hemisférickom usporiadaní.
- Optimalizáciou počiatočného odhadu stochastickými metódami a spresnením teoretického modelu simplexovými a gradientnými optimalizačnými algoritmi, boli teoretické modely optimalizované voči experimentálnym údajom.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2018

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

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie

3.2. Zmena formy doktorandského štúdia

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

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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2018 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
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Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	0

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

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

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

Tabuľka 3f Účasť na pedagogickom procese

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

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

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

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

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

Tabuľka 3h Aktivity pracovníkov na VŠ

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

3.7. Iné dôležité informácie k pedagogickej činnosti

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

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

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

G. Wimmer:

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

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

The 18th Central European Conference on Cryptology, Smolenice, 46 účastníkov, 06.06.-08.06.2018

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

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

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

21st International Conference on Descriptive Complexity of Formal Systems (DCFS 2019)/21. medzinárodná konferencia Popisná zložitost' formálnych systémov (DCFS 2019), Košice, 17.07.-19.07.2019, (Galina Jirásková, 055/ 622 82 91, jiraskov@saske.sk)

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

Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský/Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský, Košice, 09.09.-13.09.2019, (Peter Eliaš, 055/ 234 2202, elias@saske.sk, Miroslav Repický, 055 / 622 8291, repicky@saske.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Borsík Ján	0	0	1
Hospodár Michal	0	1	0
Jirásková Galina	3	0	1
Krajňáková Ivana	0	1	0
Mlynárčik Peter	0	1	0
Nedela Roman	0	0	2
Nemoga Karol	0	0	1
Novotný Branislav	0	1	0
Okša Gabriel	1	0	0
Palmovský Matúš	0	1	0
Vajtersíc Marian	1	0	0
Spolu	5	5	5

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Katarína Čunderlíková, PhD.

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)

International Quantum Structure Association (funkcia: člen výboru)

doc. RNDr. Roman Frič, DrSc.

International Quantum Structures Association (funkcia: člen)

RNDr. Alžbeta Michalíková, PhD.

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

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

doc. RNDr. Karol Nemoga, CSc.

IACR International Association for Cryptology (funkcia: člen)

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

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Bernoulli Society (funkcia: člen)

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

Matematische Hamburg Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

prof. RNDr. Marian Vajteršic, DrSc.

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

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Vajteršic Marian	The Research Foundation-Flanders (FWO)	1

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

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E. Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Vedná politika

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

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

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

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

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

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

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

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

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

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

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

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

6.1. Spolupráca s univerzitami/VŠ (fakultami)

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

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

Začiatok spolupráce: 1990

Zameranie: pedagogika, veda a výskum

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

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

Začiatok spolupráce: 1999

Zameranie: pedagogika, veda a výskum

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

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

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

Začiatok spolupráce: 2001

Zameranie: pedagogika, veda a výskum

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

Názov univerzity/vysokej školy a fakulty: Pedagogická fakulta TVU

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

Začiatok spolupráce: 2016

Zameranie: veda a výskum

Zhodnotenie: Spoločný grant VEGA 2/0006/16.

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

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

Začiatok spolupráce: 2000

Zameranie: pedagogika, veda a výskum

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

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta STU

Druh spolupráce (spoločné pracovisko alebo iné): pedagogická činnosť

Začiatok spolupráce: 2011

Zameranie: numerická analýza, algoritmy

Zhodnotenie: pedagogická činnosť

Názov univerzity/vysokej školy a fakulty: Strojnícka fakulta STU

Druh spolupráce (spoločné pracovisko alebo iné): APVV grant

Začiatok spolupráce: 2017

Zameranie: veda a výskum

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

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

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

Začiatok spolupráce: 2002

Zameranie: pedagogika, veda a výskum

Zhodnotenie: výuka, spolupráca vo vedeckých projektoch.

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

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

Začiatok spolupráce: 2002

Zameranie: pedagogika, veda a výskum

Zhodnotenie: výuka, spolupráca vo vedeckých projektoch.

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

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

Začiatok spolupráce: 2002

Zameranie: pedagogika, veda a výskum

Zhodnotenie: výuka, spolupráca vo vedeckých grantoch, seminár.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných a humanitných vied, 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

Zadávatel', odberateľ, zmluvný partner: MO SR

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

Začiatok spolupráce: 2013

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

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

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

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

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

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2004

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

Objem získaných prostriedkov v bežnom roku (€): 0

Stručný opis výstupu/výsledku:

Zhodnotenie:

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Slovenský metrologický ústav: spolupráca na APVV grante.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie

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

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

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

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
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8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	13	tlač	1	TV	0
rozhlas	0	internet	19	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

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

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Čunderlíková Katarína	0	0	1
Spolu	0	0	1

9.5. Členstvo v redakčných radách časopisov

doc. RNDr. Ján Borsík, CSc.

Mathematica Slovaca (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: editor)

RNDr. Katarína Čunderlíková, PhD.

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Mathematica (funkcia: člen redakčnej rady)
Indian Journal of Mathematics (funkcia: člen)
Mathematica Slovaca (funkcia: výkonný editor)
Military and Science (funkcia: člen redakčnej rady)
Obzory matematiky, fyziky a informatiky (funkcia: člen redakčnej rady)
Soft Computing (funkcia: editor)
Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Michal Fečkan, DrSc.

Communications in Mathematical Analysis (funkcia: editor)
Differential Equations & Applications (funkcia: editor)
Discontinuity, Nonlinearity and Complexity (funkcia: editor)
Dynamics of Partial Differential Equations (funkcia: editor)
Electronic Journal of Qualitative Theory of Differential Equations (funkcia: editor)
Journal of Applied Mathematics (funkcia: editor)
Journal of Applied Mathematics, Statistics and Informatics (JAMSI) (funkcia: editor)
Journal of Modeling, Simulation, Identification, and Control (funkcia: editor)
Mathematica Slovaca (funkcia: editor)
Mathematical Notes, Miskolc University (funkcia: editor)

doc. RNDr. Roman Frič, DrSc.

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

doc. RNDr. Ján Haluška, CSc.

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

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)
Mathematica Slovaca (funkcia: člen redakčnej rady)
Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Juraj Hromkovič, DrSc.

Computing and Informatics (funkcia: člen)
Grammars (funkcia: člen)
Pokroky matematiky, fyziky a astronomie (funkcia: člen)
RAIRO- Theoretical Information and Applications (funkcia: člen)

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

prof. RNDr. Roman Nedela, DrSc.

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

Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

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

Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)

Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

doc. PaedDr. Martin Papčo, PhD.

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

doc. RNDr. Miroslav Ploščica, CSc.

Algebra Universalis (funkcia: redaktor)

Mathematica Bohemica (funkcia: redaktor)

Mathematica Slovaca (funkcia: redaktor)

doc. RNDr. Sylvia Pulmannová, DrSc.

Algebra Universalis (funkcia: člen)

International Journal of Theoretical Physics (funkcia: člen)

Mathematica Slovaca (funkcia: vedúci redaktor)

Tatra Mountains Mathematical Publications (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Czechoslovak Mathematical Journal (funkcia: člen)

Mathematica Slovaca (funkcia: člen)

Obzory matematiky, fyziky, informatiky (funkcia: člen)

Pokroky matematiky, fyziky a astronómie (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: hlavný redaktor)

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

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Marian Vajteršic, DrSc.

Computing and Informatics (CAI) (funkcia: člen redakčnej rady)
International Journal of Computer Science & Information Technology Applications (IJCSITA)
(funkcia: člen redakčnej rady)
Parallel Processing Letters (PPL) (funkcia: člen redakčnej rady)
Scalable Computing: Practice and Experience (SCPE) (funkcia: člen redakčnej rady)
Scientific Publications of the State University of Novi Pazar (funkcia: člen redakčnej rady)

RNDr. Imrich Vrťo, DrSc.

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

prof. RNDr. Gejza Wimmer, DrSc.

Ekonomika a informácia (funkcia: člen)
Glottometrics (funkcia: člen)
Mathematica Slovaca (funkcia: člen)
Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)
Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (funkcia: člen)

doc. RNDr. Ján Borsík, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Katarína Čunderlíková, PhD.

JSMF - Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Humboldtov klub (funkcia: člen)
Jednota slovenských matematikov a fyzikov (funkcia: člen výboru JSMF BA 1)
Učená spoločnosť SAV (funkcia: člen)

doc. RNDr. Roman Frič, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)
Slovenská matematická spoločnosť (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)
Slovenská matematická spoločnosť (funkcia: člen)

RNDr. Galina Jirásková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Martin Kochol, PhD., DSc.

Humboldtov klub na Slovensku (funkcia: člen)
Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Július Korbaš, CSc.

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

RNDr. Alžbeta Michalíková, PhD.

JSMF - Jednota slovenských matematikov a fyzikov (funkcia: člen)

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)
SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Eva Plávalová, PhD.

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

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Beloslav Riečan, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)
JSMF, pobočka Banská Bystrica (funkcia: predseda)
Učená spoločnosť SAV (funkcia: člen)

prof. RNDr. Marian Vajtersic, DrSc.

Austrian Centre for Scientific Computing (ACSC) (funkcia: vedúci sekcie)
Humboldtov klub v SR (funkcia: člen)
Jednota slovenských matematikov a fyzikov (JSMF) (funkcia: člen)
Stiftungs- und Foerderungsgesellschaft der Paris-Lodron-Universität Salzburg (funkcia: člen)

RNDr. Imrich Vrťo, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská genealogická a heraldická spoločnosť (funkcia: člen)

Slovenská informatická spoločnosť (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

P-SAPV (funkcia: člen výboru)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		26 804
z toho	knihy a zviazané periodiká	26 804
	audiovizuálne dokumenty	-
	elektronické dokumenty (vrátane digitálnych)	-
	mikroformy	-
	iné špeciálne dokumenty - dizertácie, výskumné správy	-
	Rukopisy, vzácne tlače	-
Počet titulov dochádzajúcich periodík		77
z toho zahraničné periodiká		67
Ročný prírastok knižničných jednotiek		122
v tom	kúpou	32
	darom	-
	výmenou	90
	bezodplatným prevodom	-
	náhradou	-
Úbytky knižničných jednotiek		-
Knižničné jednotky spracované automatizovane		-

Výraz „**v tom**“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		82
v tom z r. 1	prezenčné výpožičky	38
	absenčné výpožičky	44
v tom z r. 1	odborná literatúra pre dospelých	79
	výpožičky periodík	3
MVS iným knižniciam		-
MVS z iných knižníc		-
MMVS iným knižniciam		-
MMVS z iných knižníc		-
Počet vypracovaných bibliografií		-
Počet vypracovaných rešerší		10

10.3. Používatelia

Tabuľka 10c Používatelia

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

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	2 862,52,-

10.5. Iné informácie o knižničnej činnosti

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

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

doc. RNDr. Karol Nemoga, CSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

doc. RNDr. Roman Frič, DrSc.

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

doc. RNDr. Ľubica Holá, DrSc.

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

11.4. Členstvo v komisiách SAV

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)

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

- Komisia SAV pre ekonomické otázky (člen)

- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)

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

- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

11.5. Členstvo v orgánoch VEGA

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, DrSc.

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

prof. RNDr. Július Korbaš, CSc.

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

doc. Ing. Gabriel Okša, CSc.

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

12. Hospodárenie organizácie

12.1. Výdavky RO SAV

Tabuľka 12a Výdavky RO SAV (v €)

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

12.2. Príjmy RO SAV

Tabuľka 12b Príjmy RO SAV (v €)

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

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

Od 1.7.2011 sa spojili komisie pre obhajobu doktorských dizertačných prác, takže dnes existujú už len tri stále matematické komisie pre obhajobu DrSc. V r. 2017 bol vymenovaný prof. RNDr. A. Dvurečenskij, DrSc. za predsedu ad hoc komisie pre obhajoby doktorských dizertačných prác v odbore vedy a techniky 010108 Pravdepodobnosť a matematická štatistika a v sept. 2018 prebehla úspešne obhajoba doktorskej dizertačnej práce Mgr. A. Jenčovej, PhD.

Matematický ústav SAV sa venuje aktívne aj publikovaniu vedeckých matematických časopisov. Najväčšiu tradíciu má *Mathematica Slovaca*, časopis vydávaný už od roku 1951; je to medzinárodný (medzinárodná redakčná rada má 39 členov, z toho 18 zahraničných) a recenzovaný (karentovaný AMS) časopis, indexovaný v databáze SCI a SCOPUS. V roku 2008 prevzalo distribúciu časopisu vydavateľstvo Springer-Verlag v spolupráci so spoločnosťou Versita, teraz Versita De Gruyter. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

V r. 2007 začal byť časopis *Mathematica Slovaca* indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Počet zaslaných príspevkov sa v roku 2009 viac ako dva aj pol znásobil vzhľadom k r. 2007, a činil 284 príspevkov oproti 211 v r. 2008, v r. 2010 bolo 334 príspevkov a v r. 2011 to bolo 509 príspevkov, v r. 2013 vyše 500 príspevkov, v r. 2014 vyše 540 príspevkov, v r. 2015 a 2016 vyše 500 príspevkov. Preto sme aj v r. 2012 museli výrazne zvýšiť počet editorov. Vyše 75 % prác je zamietnutých. V r. 2010 *Mathematica Slovaca* získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2016)=0,314, päťročný impakt faktor 0,462 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,34 (Scimago Journal Ranking) a je v 3. kvartile. Počet zaslaných článkov v r. 2018 bol okolo 550.

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

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

alebo

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

Adresa časopisu na stránkach spoločnosti Versita bola

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

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

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

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

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

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

Doteraz vyšlo 71 zväzkov. Od zväzku 15 sú niektoré zväzky časopisu zaradené do Current Contents - Index to Scientific Book Contents CC / Physical, Chemical and Earth Sciences. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1992. Od vol. 41 v r. 2008 je indexovaný v databáze WOS (Web of Science) a CPCI (Conference Proceedings Citation Index). Od r. 2011 je tento časopis indexovaný aj v databáze Scopus. Jeho SJR (Scimago Journal Ranking) má hodnotu 0,36 a je v 3. kvartile.

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

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2018 vyšiel 13. ročník. Adresa je <http://udt.mat.savba.sk> a <http://www.boku.ac.at/MATH/udt>. Časopis vydávame spolu s BOKU University vo Viedni. Je to vysoko špecializovaný vedný časopis, ktorý uverejňuje prevažne príspevky zahraničných autorov (95 percent). V roku 2016 sa dohodla jeho distribúciu aj cez spoločnosť De Gruyter Sciendo na adrese

<https://content.sciendo.com/view/journals/udt/udt-overview.xml>.

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

Matematický ústav SAV sa spolu s Jednotou slovenských matematikov a fyzikov a Fakultou prírodných vied Univerzity Konštantína Filozofa v Nitre podieľa na príprave časopisu Obzory matematiky, fyziky a informatiky (ISSN: 1335-4981). Tento časopis je určený hlavne pre stredoškolských učiteľov matematiky, fyziky a informatiky.

Vydávanie (resp. spolupráca pri vydávaní) uvedených časopisov spolu s udržiavaním časopiseckej i knižnej vedeckej knižnice je popri vedeckej produkcii azda najvýznamnejšou aktivitou, ktorou ústav prispieva tak do pokladnice národnej kultúry ako aj medzinárodnej vedeckej spolupráce a vzájomného porozumenia.

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

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Nemoga Karol

Čestná plaketa Jura Hronca za zásluhy v matematických vedách

Oceňovateľ: Predsedníctvo SAV, Bratislava

15.1.2. Iné domáce ocenenia

Fečkan Michal

Vedec roka 2017

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

15.2. Medzinárodné ocenenia

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

Matematický ústav SAV z pohľadu zákona č. 211/2000 Z.z. o slobodnom prístupe k informáciám

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

- zákona č. 43/1970 Zb.,
- zákona č. 92/1977 Zb.,
- zákona č. 7/1990 Zb.,
- zákona č. 291/1992 Zb.,
- zákona č. 11/1993 Z.z.,
- zákona č. 75/1995 Z.z.

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

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

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

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

Organizačná štruktúra MÚ SAV:

- Matematický ústav SAV, Štefánikova 49, 814 73 Bratislava
- Oddelenie informatiky MÚ SAV, Dúbravská cesta 9, 841 04 Bratislava
- Detašované pracovisko MÚ SAV, Grešákova 6, 040 01 Košice
- Inštitút matematiky a informatiky MÚ SAV, Ďumbierska 1, 974 11 Banská Bystrica

Orgány MÚ SAV:

- Vedecká rada MÚ SAV
- rada riaditeľa MÚ SAV.

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

Financovanie MÚ SAV:

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

Ďalšími zdrojmi financovania pracoviska sú

- prostriedky štátneho rozpočtu získané na základe účasti vo verejnej súťaži vypísanej na účelové financovanie úloh výskumu a vývoja
- príjmy z vlastnej činnosti
- prostriedky z medzinárodných programov výskumu a vývoja

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

MÚ SAV je povinné zverejňovať aj

- označenie nehnuteľnej veci a hnutelnej 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 nadobúdaciú cenu na účely zverejnenia sa považujú, ak ide o vlastné zhotovenie, náklady na zhotovenie, a ak ide o bezodplatné nadobudnutie, cena obvyklá za obdobnú vec v mieste a čase nadobudnutia.

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

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

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

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

(2) Nezverejnenú informáciu ústav sprístupní na základe žiadosti o sprístupnenie informácie (ďalej len „žiadosť“). Žiadosť môže žiadateľ podať písomne, ústne, faxom, elektronickou poštou alebo iným technicky vykonateľným spôsobom. Zo žiadosti musí byť 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 ústav 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 ôsmich 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 byť označené číslom z centrálnej evidencie.

(11) V prípade, ak sa žiadosti nevyhoví, hoci len sčasti, vydá sa v lehote ôsmich 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:

1. 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.
2. O odvolaní proti rozhodnutiu ústavu rozhoduje riaditeľ ústavu, na základe vyjadrenia komisie, ktorú na tento účel ustanovil.
3. 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.
4. 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

1. zákon č. 74/1963 Zb. o Slovenskej akadémii vied v znení neskorších predpisov
2. zákon NR SR č. 278/1993 Z.z. o správe majetku štátu v znení neskorších predpisov
3. Matematický ústav 3. zákon NR SR č. 303/ 1995 Z.z. o rozpočtových pravidlách v znení neskorších predpisov
4. zákon č. 172/1990 Zb. o vysokých školách v znení neskorších predpisov
5. zákon č. 53/1964 Zb. o udeľovaní vedeckých hodností a o štátnej komisii pre vedecké hodnosti v znení neskorších predpisov
6. zákon č. 39/1977 Zb. o výchove nových vedeckých pracovníkov a o ďalšom zvyšovaní kvalifikácie v znení neskorších predpisov
7. vyhláška Československej akadémie vied č. 55/1977 Zb. o ďalšom zvyšovaní kvalifikácie a o hodnotení tvorivej spôsobilosti vedeckých pracovníkov
8. ostatné interné smernice / na internetovej stránke už sú uverejnené /

17. Problémy a podnety pre činnosť SAV

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

V tovaroch a službách sme zaznamenali nárast o 13,7 % (oproti poklesu 18 % v minulom roku) spôsobený vyššími prostriedkami získanými v APVV. V APVV sme zaznamenali nárast získaných prostriedkov o 66,7 %. V projektoch VEGA sme zaznamenali pokles o 2,2 %, ktorý bol spôsobený znížením kapacity riešiteľov.

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

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

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

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

Dôležité je:

- Zabezpečiť stabilné a zvyšujúce sa financovanie projektov APVV.
- Zlepšiť hodnotenie projektov.

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

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

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

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

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

Správu o činnosti organizácie SAV spracoval(i):

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
doc. RNDr. Karol Nemoga, CSc.

.....
Mgr. Anna Jenčová, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2018

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

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. RNDr. Anatolij Dvurečenskij, DrSc.	100	1.00
2.	doc. RNDr. Roman Frič, DrSc.	100	1.00
3.	doc. RNDr. Ľubica Holá, DrSc.	100	1.00
4.	prof. RNDr. Juraj Hromkovič, DrSc.	100	0.00
5.	RNDr. Stanislav Jakubec, DrSc.	50	0.75
6.	prof. RNDr. Roman Nedela, DrSc.	45	0.45
7.	doc. RNDr. Sylvia Pulmannová, DrSc.	100	1.00
8.	doc. RNDr. Oto Strauch, DrSc.	100	1.00
9.	prof. RNDr. Marian Vajteršic, DrSc.	100	0.00
10.	RNDr. Imrich Vrťo, DrSc.	50	0.50
11.	prof. RNDr. Gejza Wimmer, DrSc.	40	0.40
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Martin Kochol, PhD., DSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Martin Bečka, PhD.	100	1.00
2.	doc. RNDr. Ján Borsík, CSc.	100	1.00
3.	RNDr. Stefan Dobrev, PhD.	100	1.00
4.	prof. RNDr. Michal Fečkan, DrSc.	25	0.25
5.	doc. RNDr. Ján Haluška, CSc.	100	1.00
6.	Mgr. Anna Jenčová, DrSc.	100	1.00
7.	RNDr. Galina Jirásková, CSc.	100	1.00
8.	prof. RNDr. Július Korbaš, CSc.	3	0.03
9.	doc. RNDr. Karol Nemoga, CSc.	100	1.00
10.	doc. Ing. Gabriel Okša, CSc.	100	1.00
11.	doc. RNDr. Milan Paštéka, CSc.	3	0.03
12.	doc. RNDr. Miroslav Ploščica, CSc.	25	0.25
13.	RNDr. Michal Pospíšil, PhD.	20	0.20
14.	doc. RNDr. Miroslav Repický, CSc.	100	1.00

15.	Mgr. Andrea Zemánková, PhD.	100	0.00
Vedecí pracovníci			
1.	doc. RNDr. Vladimír Baláž, CSc.	1	0.01
2.	doc. Mgr. Pavol Bokes, PhD.	13	0.08
3.	RNDr. Katarína Čunderlíková, PhD.	3	0.02
4.	RNDr. Vladimír Dančík, PhD.	100	0.00
5.	Mgr. Nataliya Dilna, PhD.	100	0.33
6.	RNDr. Peter Eliaš, PhD.	100	1.00
7.	Mgr. Štefan Gyürki, PhD.	5	0.05
8.	doc. RNDr. Rudolf Hajossy, CSc.	32	0.32
9.	RNDr. Emília Halušková, CSc.	100	1.00
10.	Mgr. Marek Hyčko, PhD.	100	1.00
11.	doc. RNDr. Ferdinand Chovanec, CSc.	3	0.03
12.	doc. RNDr. Mária Jurečková, CSc.	3	0.03
13.	Mgr. Marek Košta, PhD.	100	0.08
14.	Mgr. Tibor Macko, PhD.	25	0.75
15.	RNDr. Alžbeta Michalíková, PhD.	3	0.02
16.	Mgr. Peter Mlynárčik, PhD.	3	0.01
17.	Ing. Igor Mračka, PhD.	100	1.00
18.	Mgr. Branislav Novotný, PhD.	100	1.00
19.	Mgr. Matúš Palmovský, PhD.	3	0.01
20.	doc. PaedDr. Martin Papčo, PhD.	5	0.05
21.	Mgr. Eva Plávalová, PhD.	3	0.01
22.	RNDr. Jozef Pócs, PhD.	100	1.00
23.	Mgr. Ladislav Stacho, CSc.	100	0.00
24.	Ondrej Šuch, PhD., M.Sc.	25	0.25
25.	Mgr. Elena Vinceková, PhD.	100	1.00
26.	RNDr. Tibor Žáčik, CSc.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	RNDr. Laura Husárová	40	0.40
2.	doc. Mgr. Ján Karabáš, PhD.	11	0.11
3.	Mgr. Ján Kysel	100	1.00
4.	RNDr. Alexandra Mojžišová, PhD.	100	0.83
5.	Mgr. Katarína Pastorková	100	1.00
6.	Ing.arch. Terézia Sedláková	59	0.59

Odborní pracovníci ÚSV			
1.	Jana Galbová	60	0.60
2.	Silvia Gavorová	80	0.80
3.	Ivana Geriaková	100	1.00
4.	Ivana Hudecová	60	0.60
5.	Mária Malaščuková	72	0.72
6.	Katarína Nagyová	60	0.60
7.	Eugénia Ondrušková	100	1.00
8.	Bc. Henrieta Paľová	24	0.24
9.	Ing. Daniel Solčiansky	60	0.48
10.	Andrea Surová	100	1.00
11.	Katarína Štefančíková	100	1.00
Ostatní pracovníci			
1.	Janka Badiarová	33	0.33
2.	Lucia Mišíková	36	0.36
3.	Blažena Puterová	45	0.45
4.	Beata Szabová	100	0.25

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. RNDr. Beloslav Riečan, DrSc.	13.8.2018	0.12
2.	RNDr. Imrich Vrťo, DrSc.	31.12.2018	0.50
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	RNDr. Kvetoslava Dvořáková	31.7.2018	0.00
Odborní pracovníci ÚSV			
1.	Pavel Grebeči	28.2.2018	1.00
2.	Judita Klimentová	31.3.2018	0.15
3.	Mária Malaščuková	31.12.2018	0.72

Zoznam doktorandov

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

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
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Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
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Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: ERANET

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

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

Dosiahnuté výsledky:

Výskumný tím sa oboznámil s výpočtovými platformami (predovšetkým R, Bioconductor, Python, NumPy a Pandas) a dátovo-vednými technikami (napr. hlavné komponenty, zhľukovanie) nevyhnutnými pre úspešnú analýzu veľkoškálových dát o génovej expresii. Ďalej, matematické metodológie boli úspešne aplikované v štúdiu feedforwardnej regulácie génovej expresie skrz mRNA-microRNA interakciu [1].

[1] P. Bokes, M. Hojcka, and A. Singh, Buffering gene expression noise by microrna based feedforward regulation, in Computational Methods in Systems Biology, 16th International Conference, CMSB 2018 (M. Ceska and D. Safránek, eds.), vol. 11095 of Lect. N. Bioinformat. , pp. 129-145, 2018.

Domáce projekty

Programy: VEGA

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

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

Dosiahnuté výsledky:

Boli charakterizované body rovnomernej konvergenzie pre kvázispojité funkcie.

J. Borsík: Points of uniform convergence and quasicontinuity European Journal of Mathematics, DOI 10.1007/s40879-018-0303-4.

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

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

Dosiahnuté výsledky:

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

Uvažujeme dve varianty tohto problému, v závislosti od toho či roboti majú kontrolu nad ich počiatočnou vzájomnou vzdialenosťou. Ak je ich počiatočná vzdialenosť časťou vstupu (čiže nemajú kontrolu), ukázali sme, že existujú jednoduché algoritmy na dosiahnutie optimálneho najhoršieho možného času evakuácie pre prípady keď: a) všetky roboty začínajú na rovnakom mieste, pre ľubovoľné rozmiestnenie výstupných brán; b) všetky brány sú rovnomerne rozmiestnené a roboty majú ľubovoľné štartovacie pozície. K ďalším výsledkom patria dolné a horné odhady pre prípad ľubovoľného rozmiestnenia brán a ľubovoľných štartovacích pozícií. Pre model, kde roboty si môžu vybrať vzájomnú vzdialenosť pri štarte (so znalosťou, ale bez kontroly vzájomných pozícií brán) sme navrhli prirodzenú triedu algoritmov parametrizovaných najväčšou vzdialenosťou medzi susednými bránami.

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

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

Dosiahnuté výsledky:

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

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

4.) Topológie na funkcionálnych priestoroch a hyperpriestoroch (*Topologies on Functional Spaces and Hyperspaces*)

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

Dosiahnuté výsledky:

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

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

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

Dosiahnuté výsledky:

Bola navrhnutá metóda generovania binárnych cirkulantných matíc s predpísaným počtom jednotiek pre potreby McEliecevho kryptosystému.

Bola dokončená monografia O. Strauch: *Distribution of Sequences – A Theory*, ktorá bude publikovaná vo vydavateľstve Academia, Praha v roku 2019.

FABŠIČ, Tomáš - GROŠEK, Otokar - NEMOGA, Karol - ZAJAC, Pavol. On generating invertible circulant binary matrices with a prescribed number of ones. In *Cryptography and Communications*, 2018, vol. 10, no. 1, p. 159-175. (1.213 - IF2017). (2018 - Current Contents). ISSN 1936-2447.

Dostupné na internete:

<<https://link.springer.com/content/pdf/10.1007%2Fs12095-017-0239-4.pdf>>.

6.) Algebrické, pravdepodobnostné a kategoriálne aspekty modelovania kvantových štruktúr (*Algebraic, Probabilistic and Categorical Aspects of Modelling Quantum Structures*)

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

Dosiahnuté výsledky:

1. A. Dvurečenskij, O. Zahiri, Morphisms on EMV-algebra and their applications. *Soft Computing* 22 (2018), 7519-7537 <https://doi.org/10.1007/s00500-018-3039-7>. CC

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

3. R.A. Borzooei, A. Dvurečenskij, A.H. Sharafi, Generalized EMV-effect algebras, *Inter. J. Theor. Phys.* 57 (2018), 2267-2279. <https://doi.org/10.1007/s10773-018-3>. CC

4. A. Dvurečenskij, Quantum observables and effect algebras, *Inter. J. Theor. Phys.* 57 (2018), 637--651. DOI: 10.1007/s10773-017-3594-1. CC

5. A. Dvurečenskij, Riesz space-valued states on pseudo MV-algebras, *J. Appl. Logic - IfCoLog Journal of Logics and their Applications* 5 (2018), 1723-1764. SCI

6. A. Dvurečenskij, Prof. RNDr. Beloslav Riečan, DrSc., Dr.h.c., *Nov. 10, 1936 - Aug. 13, 2018, *Math. Slovaca* 68 (2018), 951-956. SCI

7. A. Jenčová: Rényi Relative Entropies and Noncommutative L_p -Spaces, *Annales Henri Poincare*, 19 (2018), 2513-2542. CC
8. A. Jenčová: Incompatible measurements in a class of general probabilistic theories, *Physical Review A*, 98 (2018), art. nr. 12133. CC
9. S. Pulmannová, Corrigendum to Banach synaptic algebras, *Inter. J. Theore. Phys.* 57 (2018), 3772-3775. CC
10. D.J. Foulis, S. Pulmannová, Banach synaptic algebras, *Inter. J. Theor. Phys.* 57 (2018), 1103-1119. <https://doi.org/10.1007/s10773-017-3641-y>. CC

7.) Popisná zložitosť formálnych systémov (*Descriptive 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	áno
koordinátorom projektu:	
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	VEGA SAV: 5385 €

Dosiahnuté výsledky:

Články:

1. Michal Hospodár, Galina Jirásková, Peter Mlynárčik, A Survey on Fooling Sets as Effective Tools for Lower Bounds on Nondeterministic Complexity. In: Hans-Joachim Böckenhauer, Dennis Komm, Walter Unger: *Adventures Between Lower Bounds and Higher Altitudes - Essays Dedicated to Juraj Hromkovič on the Occasion of His 60th Birthday*. *Lecture Notes in Computer Science*, vol. 11011, pp. 17-32. Springer 2018.
2. Jozef Jirásek Jr., Galina Jirásková, Juraj Šebej, Operations on Unambiguous Finite Automata. *International Journal of Foundations of Computer Science* 29(5) (2018), 861-876.

Práce v konferenčných zborníkoch:

1. Michal Hospodár, Galina Jirásková, Ivana Krajňáková, Operations on Boolean and Alternating Finite Automata. In: Fedor V. Fomin, Vladimir V. Podolskii (eds.): *Computer Science - Theory and Applications - 13th International Computer Science Symposium in Russia, CSR 2018, Moscow, Russia, June 6-10, 2018, Proceedings*. *Lecture Notes in Computer Science*, vol. 10846, pp. 181-193. Springer, 2018.
2. Galina Jirásková, Alexander Okhotin, State Complexity of Unambiguous Operations on Deterministic Finite Automata. In: Stavros Konstantinidis, Giovanni Pighizzini (eds.): *Descriptive Complexity of Formal Systems - 20th IFIP WG 1.02 International Conference, DCFS 2018, Halifax, NS, Canada, July 25-27, 2018, Proceedings*. *Lecture Notes in Computer Science*, vol. 10952, pp. 188-199. Springer, 2018.

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

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

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

Dosiahnuté výsledky:

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

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

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

Dosiahnuté výsledky:

KOCHOL, M.: Three colorability characterized by shrinking of locally connected subgraphs into triangles, *Information Processing Letters*, vol. 135 (2018), str. 33–35, (ADCA).

10.) Globálne a lokálne vlastnosti priestorov a zobrazení (*Global and Local Properties of Spaces and Mappings*)

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

Dosiahnuté výsledky:

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

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

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

Články:

1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, *Homology Homotopy Appl.* 20, No. 2, 11-40 (2018)

2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, *Geometriae Dedicata*, published online on 10 July 2018, <https://doi.org/10.1007/s10711-018-0370-1>

Preprinty:

3. Balko, Macko, Niepel, Rusin: Higher simple structure sets of lens spaces with the fundamental group of order 2^K , arXiv:1808.05373 [math.AT]

4. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress, current version available online on <http://www.mat.savba.sk/~macko/surgery-book.html>

11.) Algoritmy na grafoch a algebraických štruktúrach (*Algorithms on graphs and on algebraic structures*)

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

Dosiahnuté výsledky:

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

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

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

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

Dosiahnuté výsledky:

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

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

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

Dosiahnuté výsledky:

1. Popísali sme kongruenčne FD-maximálne algebry, ktorých priesekovo ireducibilné kongruencie tvoria usporiadanú množinu dĺžky 2. Doteraz bol taký popis známy pre dĺžku 1.
2. Študovali sme rôzne generujúce množiny agregáčného klonu a taktiež klonu idempotentných agregáčnych funkcií na konečných zväzoch. Jedným z hlavných výsledkov je redukcia doposiaľ známeho minimálneho počtu generátorov príslušných klonov.
3. Pokračovali sme v skúmaní EKP vlastností pre monounárne algebry. Našli sme viacero zaujímavých vlastností: cykly týchto algebier sú špeciálne a tvoria tiež algebru s EKP; po odstránení komponentu ostáva vlastnosť EKP zachovaná; počet pevných bodov v algebre sa rovná počtu komponentov.

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

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

Dosiahnuté výsledky:

Výsledky o kardinálnych invariantoch topologických priestorov nerozlišujúcich ideálové konvergenzie postupností spojitých reálnych funkcií.

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

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

Dosiahnuté výsledky:

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

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

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

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

Dosiahnuté výsledky:

WIMMER, Gejza - WITKOVSKÝ, Viktor. Model of polynomial calibration. In Journal of Physics: Conference Series, 2018, vol. 1065, no. 7, art. no. 072011. ISSN 1742-6588.

WIMMER, Gejza - WITKOVSKÝ, Viktor. Revisited S4 from EA-4/02 (Calibration of a gauge block of nominal length 50 mm). In Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018) : Book of Abstracts. - St. Petersburg, Russia : Mendeleyev Institute for Metrology, 2018, p. 152-153.

RÁBOŇOVÁ, Petra - WIMMER, Gejza. Confidence region for calibration function coefficients. In Measurement Science Review, 2018, vol. 18, no. 6, p. 227-235. (1.345 - IF2017). (2018 - Current Contents). ISSN 1335-8871. Dostupné na internete:
<<http://www.measurement.sk/2018/msr-2018-0031.pdf>.>

Programy: APVV

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

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

Dosiahnuté výsledky:

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

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

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

Dosiahnuté výsledky:

Články:

1. Michal Hospodár, Galina Jirásková, Peter Mlynárčik, A Survey on Fooling Sets as Effective Tools for Lower Bounds on Nondeterministic Complexity. In: Hans-Joachim Böckenhauer, Dennis Komm, Walter Unger: Adventures Between Lower Bounds and Higher Altitudes - Essays Dedicated to Juraj Hromkovič on the Occasion of His 60th Birthday. Lecture Notes in Computer Science, vol. 11011, pp. 17-32. Springer 2018.
2. Jozef Jirásek Jr., Galina Jirásková, Juraj Šebej, Operations on Unambiguous Finite Automata. International Journal of Foundations of Computer Science 29(5) (2018), 861-876.

Práce v konferenčných zborníkoch:

1. Michal Hospodár, Galina Jirásková, Ivana Krajňáková, Operations on Boolean and Alternating Finite Automata. In: Fedor V. Fomin, Vladimir V. Podolskii (eds.): Computer Science - Theory and Applications - 13th International Computer Science Symposium in Russia, CSR 2018, Moscow, Russia, June 6-10, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10846, pp. 181-193. Springer, 2018.
2. Galina Jirásková, Alexander Okhotin, State Complexity of Unambiguous Operations on Deterministic Finite Automata. In: Stavros Konstantinidis, Giovanni Pighizzini (eds.): Descriptive Complexity of Formal Systems - 20th IFIP WG 1.02 International Conference, DCFS 2018, Halifax, NS, Canada, July 25-27, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10952, pp. 188-199. Springer, 2018.
3. Jozef Jirásek, Galina Jirásková, The Exact Complexity of Star-Complement-Star. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 223-235. Springer, 2018.
4. Michal Hospodár, Markus Holzer, The Ranges of Accepting State Complexities of Languages Resulting from Some Operations. In: Cezar Câmpeanu (ed.): Implementation and Application of Automata - 23rd International Conference, CIAA 2018, Charlottetown, PE, Canada, July 30 - August 2, 2018, Proceedings. Lecture Notes in Computer Science, vol. 10977, pp. 198-210. Springer, 2018.

5. Galina Jirásková, Alexander Okhotin, Towards Exact State Complexity Bounds for Input-Driven Pushdown Automata. In: Mizuho Hoshi, Shinnosuke Seki (eds.): Developments in Language Theory - 22nd International Conference, DLT 2018, Tokyo, Japan, September 10-14, 2018, Proceedings. Lecture Notes in Computer Science, vol. 11088, pp. 441-452. Springer, 2018.

6. Markus Holzer, Michal Hospodár, Complexity of languages resulting from the cut operation in the unary case. In: Rudolf Freund, Michal Hospodár, Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 25-34. Institut für Computersprachen TU Wien, 2018.

7. Michal Hospodár, Matúš Palmovský, Nondeterministic complexity of power and positive closure on subclasses of convex languages. In: Rudolf Freund, Michal Hospodár, Galina Jirásková, Giovanni Pighizzini (eds.): Tenth Workshop on Non-Classical Models of Automata and Applications, NCMA 2018, Košice, Slovakia, August 21-22, 2018. Short Papers, pp. 35-44. Institut für Computersprachen TU Wien, 2018.

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

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

Dosiahnuté výsledky:

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

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

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Články:

1. Spiros Adams-Florou, Tibor Macko: L-homology on ball complexes, Homology Homotopy Appl. 20, No. 2, 11-40 (2018)

2. Diarmuid Crowley, Tibor Macko: On the cardinality of the manifold set, *Geometriae Dedicata*, published online on 10 July 2018, <https://doi.org/10.1007/s10711-018-0370-1>

Preprinty:

3. Balko, Macko, Niepel, Rusin: Higher simple structure sets of lens spaces with the fundamental group of order 2^K , arXiv:1808.05373 [math.AT]

4. Diarmuid Crowley, Wolfgang Lueck, Tibor Macko: Surgery theory: Foundations, book in progress, current version available online on <http://www.mat.savba.sk/~macko/surgery-book.html>

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

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

Dosiahnuté výsledky:

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

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

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

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

Dosiahnuté výsledky:

Konferenčný príspevok:

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

Publikácia:

ĎURIŠ, S.— ĎURIŠOVÁ, Z.— WIMMER, G.— ADAM, P.: Overview of steps checking traceability of measurement during the process of breath analysers verification using certified reference material, IOP Conf. Series: Journal of Physics: Conf. Series 1065 (2018) 082009, IOP Publishing, doi:10.1088/1742-6596/1065/8/082009.

Programy: ŠPVV

22.) Príprava Národného programu kvantových technológií SR

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

Dosiahnuté výsledky:

Programy: Vnútroústavné

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

Zodpovedný riešiteľ:	Tibor Žáčik
Trvanie projektu:	1.1.1999 /
Evidenčné číslo projektu:	1239
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

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

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

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

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- AEC24 SHAHROKHI, F. - SÝKORA, O. - SZÉKELY, L.A. - VRŤO, Imrich. A gap between the crossing number and the convex crossing number. F. Shahrokhi, O. Sýkora, L. A. Székely, I. Vrt'o. In Towards a Theory of Geometric Graphs, AMS Series in Contemporary Mathematics, vol. 342. - AMS Press, 2004, s. 249-258. ISBN 0-8218-3484-3.
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- AEC25 SHAHROKHI, F. - SZÉKELY, L. A. - VRŤO, Imrich. Crossing numbers of graphs, lower bound techniques and algorithms: a survey. In Proc. 2nd Intl. Symp. on Graph Drawing, Lecture Notes in Computer Science, Vol. 894. - SRN : Springer, 1994, s. 131-142. ISBN 3-540-58950-3.
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1. [1.1] WANG, Haoli - XU, Xirong - YANG, Yuansheng - LIU, Bao - ZHENG, Wenping - WANG, Guoqing. An upper bound for the crossing number of locally twisted cubes. In ARS COMBINATORIA. ISSN 0381-7032, 2017, vol. 131, p. 87-106., Registrované v: WOS
- AEC26 SHANNON, A. - RIEČAN, Beloslav - OROZOVA, D. - SOTIROVA, E. - ATANASSOV, K. - KRAWCZAK, M. - MELO-PEDRO, P. - PARVATHI, R. - KIM, T. Generalized net model of the process of selection and usage of an intelligent e-learning system. In 2012 6th IEEE International Conference Intelligent systems: IS 2012, Sofia, Bulgaria, 6-8 September, 2012. - Piscataway : IEEE, 2012, p. 233-236. ISBN 978-1-4673-2276-8.
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2. [1.2] GEORGIEVA, Vania. Generalized net model of mechanical wastewater pre-treatment. In International Journal Bioautomation. ISSN 13141902, 2017, vol. 21, no. 1, p. 133-144., Registrované v: SCOPUS
- AEC27 SCHRODER, H. - SÝKORA, O. - VRŤO, Imrich. Optical all-to-all communication for some product graphs. In SOFSEM'97: Theory and Practice of Informatics Lecture, Lecture Notes in Computer Science, Vol. 1338. - Springer, 1997, s. 555-562. ISBN 3-540-63774-5.
- Citácie:

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- AEC28 VOJTÁŠ, Peter - PAULÍK, L.. Soundness and completeness of non-classical extended SLD-resolution. In *Extensions of Logic Programming, Lecture Notes in Computer Science*, vol. 1050. - Springer, 1996, s. 289-301. ISBN 978-3-540-60983-4.
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AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

- AECA01 DOBREV, Stefan - PLŽÍK, Milan. Improved spanners in networks with symmetric directional antennas. In *Algorithms for Sensor Systems : 10th International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics*. - Berlin : Springer, 2015, s. 103-121. ISBN 978-3-662-46017-7. ISSN 0302-9743.(International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics).
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1. [1.1] ABAM, M. A. - BAHARIFARD, F. - BOROONY, M. S. - ZARRABI-ZADEH, H. *Fault-tolerant spanners in networks with symmetric directional antennas*. In *THEORETICAL COMPUTER SCIENCE*. ISSN 0304-3975, 2017, vol. 704, p. 18-27., Registrované v: WOS
2. [1.1] ABAM, Mohammad Ali - BAHARIFARD, Fatemeh - BOROONY, Mohammad Sadegh - ZARRABI-ZADEH, Hamid. *Fault-Tolerant Spanners in Networks with Symmetric Directional Antennas*. In *WALCOM: ALGORITHMS AND COMPUTATION, WALCOM 2017*. ISSN 0302-9743, 2017, vol. 10167, p. 266-278., Registrované v: WOS
3. [1.1] TRAN, Tien - AN, Min Kyung - HUYNH, Dung T. *Establishing symmetric connectivity in directional wireless sensor networks equipped with $2\pi/3$ antennas*. In *JOURNAL OF COMBINATORIAL OPTIMIZATION*. ISSN 1382-6905, 2017, vol. 34, no. 4, p. 1029-1051., Registrované v: WOS

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

- AED01 SAVIN, Alexander - WIMMER, Gejza - WITKOVSKÝ, Viktor. On Kenward-Roger confidence intervals for common mean in interlaboratory trials. In *MEASUREMENT 2003 : 4th International Conference on Measurement*. Editors I. Frollo, M. Tyšler, A. Plačková. - Bratislava, Slovakia : Institute of Measurement Science, SAS, c2003, p. 79-82. ISBN 80-967402-6-1.(MEASUREMENT 2003 : International Conference on Measurement).
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- AED02 WIMMER, Gejza - ALTMANN, Gabriel. Two hypotheses on synonymy. In Lexicographica '99 : zborník na počesť Kláry Buzássyovej. Zost. Slavomír Ondrejovič, Matej Považaj. - Bratislava : Veda, 2001, s. 218-225. ISBN 80-224-0604-X.

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***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, 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, p. 673-687. ISSN 0018-9286.

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

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

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

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

AEE03 DVUREČENSKIĽ, 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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AEE04 JIRÁSKOVÁ, Galina - KRAUSOVÁ, M. Complexity in Prefix-Free Regular Languages. In 12th International Workshop on Descriptive Complexity of Formal Systems (DCFS 2010), EPTCS 31. - <http://arxiv.org/pdf/1008.1662.pdf>, 2010, s. 197-204.

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

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

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

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

AFC Publikované príspevky na zahraničných vedeckých konferenciách

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

Citácie:

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

AFC02 CIUNGU, L.C. - KELEMENOVÁ, J. - RIEČAN, Beloslav. A new point of view to

the inclusion - Exclusion principle. In 2012 IEEE 6th International Conference Intelligent systems. - 2012, s. 142-144. ISBN 978-1-4673-2278-2.

Citácie:

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

AFC03

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

Citácie:

1. [1.1] DA SILVA, Samuel G. - DE PAIVA, Valeria C. V. *Dialectical categories, cardinalities of the continuum and combinatorics of ideals. In LOGIC JOURNAL OF THE IGPL. ISSN 1367-0751, 2017, vol. 25, no. 4, p. 585-603., Registrované v: WOS*

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

AfD Publikované príspevky na domácich vedeckých konferenciách

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. Rován, J. Štuller, A.M. Tjoa (eds.). - Cham : Springer, 2014, s. 375-382. ISBN 978-3-319-04297-8. ISSN 0302-9743.(SOFSEM 2014).

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

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

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

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01

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

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

GHG02

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

Citácie:

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

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

GHG03

KUDO, Shuhei - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIČ, Marián. Parallel one-sided block Jacobi SVD algorithm with dynamic ordering and variable blocking: performance analysis and optimization : Technical Report 2016-02 [elektronický zdroj]. Salzburg : Universität Salzburg, 2016. 17 p. Názov z internetu. Požaduje sa Adobe Reader. Dostupné na internete:

<https://www.uni-salzburg.at/fileadmin/multimedia/Computerwissenschaften/3_Forschung/2016-02_Kudo_Yamamoto_Becka_Vajtersic.pdf>.

Citácie:

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

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Funkcie komplexnej premennej

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 1

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 2

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 3

Počet hodín za semester: 26

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

doc. RNDr. Ján Borsík, CSc.

Názov semestr. predmetu: Matematická analýza 4

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 26

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 26

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 48

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 8

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 48

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerická lineárna algebra

Počet hodín za semester: 39

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě I

Počet hodín za semester: 26

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

Počet hodín za semester: 52

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 52

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Digitale Rechenanlagen

Počet hodín za semester: 30

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Mnohorozmerné statistické metódy 2

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 1

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika (učitelia)

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 2

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistická a digitálna podpora výskumu

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 1

Počet hodín za semester: 36

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 2

Počet hodín za semester: 36

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 192

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 192

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

doc. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Rýchle algoritmy

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: MATLAB I, II

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerická lineárna algebra

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

Príloha E**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Karol Nemoga	9
Česko					Anatolij Dvurečenskij	1
					Stanislav Jakubec	2
					Tibor Macko	4
					Roman Nedela	4
					Karol Nemoga	2
					Gabriel Okša	2
Čína					Roman Nedela	11
Fínsko					Galina Jirásková	8
					Martin Plávala	144
Japonsko					Galina Jirásková	13
					Roman Nedela	8
Kanada					Stefan Dobrev	23
					Galina Jirásková	15
					Martin Plávala	15
Malta					Karol Nemoga	5
Nemecko					Michal Hospodár	31
					Galina Jirásková	9
					Tibor Macko	6
Nórsko					Karol Nemoga	5
Rakúsko					Martin Bečka	3
					Martin Kochol	2

					Gabriel Okša	3
Rusko					Martin Plávala	7
Španielsko					Pavol Bokes	5
					Branislav Novotný	5
Taliansko					Ľubica Holá	9
					Anna Jenčová	3
					Karol Nemoga	5
					Michal Pospíšil	6
Veľká Británia					Dušana Babicová	59
					Martin Plávala	5
Počet vyslaní spolu					32	429

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Miloslav Znojil, DrSc.	2
					prof. RNDr. Alice Kelemenová, CSc.	5
					prof. RNDr. Jan Hamhalter, CSc.	1
					Prof. RNDr. Pavel Exner, DrSc.	2
					Prof. RNDr. Pavel Pták, DrSc.	2
					prof. RNDr. Štefan Porubský, DrSc.	5
Grécko					Dr. Makrina Agaoglou	230
Maďarsko					Prof. Erzsébet Csuhaaj-Varjú	5

					Prof. Lajos Molnár, DSC.	2
Poľsko					Dr. Maksymilian Mika	5
					Dr. Marcin Łazarz, PhD.	61
					Dr. Marek Szykuła	5
					Prof. Karol Zyczkowski	2
Rakúsko					prof. Dr. Karl Svozil	1
					Prof. Helmut Länger	1
Taliansko					Dr. Raffaella Carbone	4
					Prof. Antonio Di Nola	1
Uzbekistan					Dr. Gayrat Urazboev	7
Počet prijatí spolu					18	341

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Bulharsko	22nd ICIFS	Katarína Čunderlíková	5
		Alžbeta Michalíková	6
		Beloslav Riečan	6
Česko	AGT 2018	Roman Nedela	7
	CLX Seminar	Roman Nedela	4
	ISCAMI 2018	Dušana Babicová	4
	PLATOSpec	Eva Plávalová	2
	ROBUST 2018	Gejza Wimmer	6
	SSAOS 2018	Emília Halušková	6
		Miroslav Ploščica	8
Čína	3rdGATG	Roman Nedela	4
	IWSGN 2018	Roman Nedela	10
Grécko	2018 ICTA	Branislav Novotný	9
Japonsko	DLT 2018	Michal Hospodár	6
		Galina Jirásková	6
		Matúš Palmovský	6
	DLT Sat	Michal Hospodár	6
		Galina Jirásková	6
		Matúš Palmovský	6
	TGT30	Roman Nedela	3
Kanada	DCFS 2018	Galina Jirásková	5
	FQM 2018	Martin Plávala	10
Maďarsko	QIMP2018	Anna Jenčová	5
		Martin Plávala	5

Poľsko	18th Wk2018	Anna Jenčová	8
	50 SMP	Martin Plávala	6
	AALCS XXII	Emília Halušková	4
	MISSI 2018	Jozef Pócs	3
	QSRT 2018	Anna Jenčová	5
	WIFSGN 2018	Katarína Čunderlíková	4
		Alžbeta Michalíková	4
Rakúsko	ATMCS8	Tibor Macko	5
	IAU 2018	Eva Plávalová	4
Rusko	CSR 2018	Michal Hospodár	8
		Galina Jirásková	8
	IQSA 2018	Martin Plávala	7
	MSCSMQ 2018	Gejza Wimmer	6
Slovinsko	GGM 2018	Roman Nedela	15
Španielsko	ISAS 2018	Jozef Pócs	6
	MDAI 2018	Jozef Pócs	10
Švajčiarsko	PMAA18	Martin Bečka	3
		Gabriel Okša	3
Taliansko	AsubL (Take 6)	Anatolij Dvurečenskij	6
	CR50	Karol Nemoga	5
	IEEE RTSI 2018	Marian Vajteršic	6
	TDQM 2018	Anna Jenčová	7
USA	DISC 2018	Stefan Dobrev	6
	PSIG 2018	Marek Hyčko	7
		Igor Mračka	7
Veľká Británia	BIID6	Anna Jenčová	7
	ECM 2018	Eva Plávalová	4
	IMEKO 2018	Gejza Wimmer	6
	QR 2018	Martin Plávala	5
Spolu	41	53	316

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

Skratky použité v tabuľke C:

18th Wk2018 - 18th Workshop: Noncommutative Probability, Operator Algebras, Random Matrices and Related Topics, with Applications
 2018 ICTA - 2018 International Conference on Topology and its Applications
 22nd ICIFS - 22nd International Conference on Intuitionistic Fuzzy Sets '2018
 3rdGATG - The Third International Conference On Group Actions and Transitive Graphs
 50 SMP - 50th Symposium on Mathematical Physics
 AALCS XXII - Application of Algebra in Logic and Computer Science XXII
 AGT 2018 - Conference in Algebraic Graph Theory: Symmetry vs Regularity
 AsubL (Take 6) - Algebra & Substructural Logics - Take 6
 ATMCS8 - Algebraic Topology: Methods, Computation and Science
 BIID6 - Beyond I.I.D. in information theory
 CLX Seminar - CLX Seminar
 CR50 - 50th Anniversary Conference of the Club of Rome
 CSR 2018 - The 13th International Computer Science Symposium in Russia
 DCFS 2018 - Descriptive Complexity of Formal Systems 2018
 DISC 2018 - International Symposium on Distributed Computing 2018
 DLT 2018 - Developments in Language Theory 2018
 DLT Sat - International DLT Satellite Workshop in Kyoto
 ECM 2018 - Exoplanet Community Meeting 2018

FQM 2018 - Foundations of Quantum Mechanics 2018
GGM 2018 - Graphs, Groups and More 2018
IAU 2018 - General Assembly of the International Astronomical Union
IEEE RTSI 2018 - 4th International Forum Research and Technologies for Society and Industry
IMEKO 2018 - XXII World Congress of the International Measurement Confederation
IQSA 2018 - 14th Biennial IQSA Conference Quantum Structures 2018
ISAS 2018 - International Symposium on Aggregation and Structures 2018
ISCAMI 2018 - International Student Conference on Applied Mathematics and Informatics
IWSGN 2018 - International Workshop on Symmetries of Graph and Networks 2018
MDAI 2018 - The 15th International Conference on Modeling Decisions for Artificial Intelligence
MISSI 2018 - 11th edition of the International Conference on Multimedia and Network Information Systems
MSCSMQ 2018 - Mathematics, Statistics and Computation to Support Measurement Quality 2018
PLATOSpec - PLATOSpec workshop
PMAA18 - 10th International Workshop on Parallel Matrix Algorithms and Applications
PSIG 2018 - Pipeline System Interest Group Conference 2018
QIMP2018 - Quantum Information Theory and Mathematical Physics 2018
QR 2018 - Quantum Roundabout 2018
QSRT 2018 - Quantum Statistics and Related Topics
ROBUST 2018 - 20. zimní škola JČ(S)MF
SSAOS 2018 - 56th Summer School on General Algebra and Ordered Sets 2018
TDQM 2018 - Workshop Three Days in Quantum Mechanics
TGT30 - 30th Workshop on Topological Graph Theory
WIFSGN 2018 - The 17th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets to the memory of Professor Beloslav Riečan (1936-2018)

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

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

RNDr. Martin Plávala		IN	A simple demonstration of incompatibility of measurements	https://quantum-journal.org/views/qv-2018-07-11-8/	13.7.2018
RNDr. Martin Plávala		IN	Najznámejší senzibilizmus socializmu Anatolij Kašpirovskij si nedá pokoj so zázrakmi. Celému svetu liečil nos	https://www.pluska.sk/sarm/zdravie-chudnutie/najznamejsi-senzibilizmus-socializmu-anatolij-kašpirovskij-si-neda-pokoj-so-zazrakmi-celemu-svetu-liecil-nos.h	4.9.2018
RNDr. Martin Plávala		PB	O tom, ako sa niekedy nedajú robiť dve veci naraz a prečo je to zaujímavé pre fyzikov a programátorov	Deň otvorených dverí, MÚ SAV, Bratislava	7.11.2018
RNDr. Martin Plávala		IN	Potrebuje aj základný výskum?	https://dennikn.sk/blog/1029988/potrebuje-aj-zakladny-vyskum/	15.2.2018
RNDr. Martin Plávala		IN	Slovenský doktorand z Matematického ústavu SAV zaujal austrálskych stredoškóľakov	http://www.netky.sk/clanok/slovensky-doktorand-z-matematickeho-ustavu-sav-zaujal-australskych-stredoskolakov	16.7.2018
RNDr. Martin Plávala		IN	Slovenský doktorand zaujal austrálskych stredoškóľakov	http://www.teraz.sk/veda/slovensky-doktorand-zaujal-australskych/37190-clanok.html	16.7.2018
RNDr. Martin Plávala	Andrea Nozdrovická	IN	Inovátorské projekty hodnotili aj mladí vedci zo SAV	https://www.sav.sk/?lang=sk&charset=&doc=services-news&source_no=20&news_no=7526	20.4.2018
RNDr. Martin Plávala	Monika Hucáková	IN	Jednou nohou vo fyzike, druhou v matematike	http://vedanadosah.cvtisr.sk/jednou-nohou-vo-fyzike-druhou-v-matematike	17.7.2018
RNDr. Martin Plávala	Monika Hucáková	IN	Mladí inovátori dostali pre svoje projekty finančnú injekciu	http://vedanadosah.cvtisr.sk/mladi-inovatori-dostali-pre-svoje-projekty-financnu-injekciu	23.4.2018
RNDr. Martin Plávala	Monika Hucáková	IN	Veda a vedci priamo na školách	http://vedanadosah.cvtisr.sk/veda-a-vedci-priamo-na-skolach	31.10.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Granty pre študentov pomáhajú slovenskému školstvu	http://skolskyservis.teraz.sk/skolstvo/granty-pre-studentov-pomahaju-slovens/39493-clanok.html	12.1.2018

RNDr. Martin Plávala	Nadácia Pontis	IN	Granty pre študentov pomáhajú slovenskému školstvu	https://www.ucn.sk/vyzy/granty-pre-studentov-pomahaju-slovenskemu-skolstvu	14.1.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Granty pre študentov pomáhajú slovenskému školstvu. 3 dôvody, prečo sa o ne uchádzať	https://www.edotacie.sk/clanky/granty-pre-studentov-pomahaju-slovenskemu-skolstvu-3-dovody-preco-sa-o-ne-uchadzat	12.1.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Granty pre študentov pomáhajú slovenskému školstvu. 3 dôvody, prečo sa o ne uchádzať	https://www.nadaciapontis.sk/clanok/granty-pre-studentov-pomahaju-slovenskemu-skolstvu-3-dovody-preco-sa-o-ne-uchadzat/2572	12.1.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Chceš rozvíjať svoj talent vo vede a výskume? Súťaž o grant!	http://vedanadosah.cvtisr.sk/chces-rozviyat-svoj-talent-vo-vede-a-vyskume-sutaz-o-grant	20.1.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Nadácia Pontis ponúka granty pre študentov	https://www.skolaefektivne.sk/33/nadacia-pontis-ponuka-granty-pre-studentov-uniqueiduchxzASYZNbZPKsWr5xNID2ZJ7-LdEtoO8DwpRwFLr8/	19.1.2018
RNDr. Martin Plávala	Nadácia Pontis	IN	Student grants help the Slovak school system: 3 reasons to apply	https://www.nadaciapontis.sk/article/student-grants-help-the-slovak-school-system-3-reasons-to-apply/2572	12.1.2018
RNDr. Martin Plávala	Stanislav Ščepán	IN	Ako vysvetliť nekompatibilitu meraní	https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=7701	16.7.2018
RNDr. Martin Plávala	Stanislav Ščepán	IN	Matematika prináša kľúčce poznania	https://www.sav.sk/?lang=sk&charset=&doc=services-news&source_no=20&news_no=7932	10.10.2018
Mgr. Peter Mlynárčik, PhD.	pozvaní hostia	PB	Matematický alternatívny krúžok	MÚ SAV, Košice	25
RNDr. Martin Plávala		TL	článok	Šarm	1

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