Matematický ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2024

Bratislava
február 2025

Obsah

ČASŤ A
Výročná správa o činnosti organizácie za rok 2024

PRÍLOHY K ČASTI A

A-1 Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

A-2 Projekty riešené v organizácii

A-3 Publikačná činnosť organizácie

A-4 Údaje o pedagogickej činnosti organizácie

A-5 Medzinárodná mobilita organizácie

A-6 Vedecko-popularizačná činnosť pracovníkov organizácie

A-7 Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom

ČASŤ B
Výročná správa o hospodárení organizácie za rok 2024

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

ČASŤ A

Matematický ústav SAV, v. v. i.

Výročná správa o činnosti organizácie
za rok 2024

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Matematický ústav SAV, v. v. i.
Riaditeľ: doc. RNDr. Karol Nemoga, CSc.
Zástupca riaditeľa: prof. RNDr. Anatolij Dvurečenskij, DrSc.
Vedecký tajomník: Mgr. Marek Hyčko, PhD.
Predseda správnej rady: doc. RNDr. Karol Nemoga, CSc.
Predseda vedeckej rady: Mgr. Anna Jenčová, DrSc.
Predseda dozornej rady: Ing. Ivana Budinská, PhD.
Člen Snemu SAV: doc. RNDr. Karol Nemoga, CSc.
Adresa: Štefánikova 49, 814 73 Bratislava

http://www.mat.savba.sk

Tel.: 02/ 5751 0414
E-mail: mathinst@mat.savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky:

- **Oddelenie aplikovanej matematiky**
  Štefánikova 49, 81473 Bratislava

Detašované pracoviská:

- **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**
  Ďumbierska 1, 974 11 Banská Bystrica

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky:

- **Oddelenie aplikovanej matematiky**
  RNDr. Tibor Žáčik, CSc.

Detašované pracoviská:

- **Oddelenie informatiky Matematického ústavu SAV**
  doc. Ing. Gabriel Okša, CSc.
- **Detašované pracovisko Matematického ústavu SAV v Košiciach**
  RNDr. Jozef Pócs, PhD.
- **Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**
  prof. RNDr. Roman Nedela, DrSc.

Členovia Snemu SAV za organizačné zložky:

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	74	42	32	7	5	69	47.18	33.2	1.5
Vedeckí pracovníci	52	36	16	2	3	48	32.89	32.43	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	4	3	1	3	1	4	0.23	0.17	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	6	2	4	2	1	5	4.48	0	0.9
Odborní pracovníci ÚS	8	0	8	0	0	8	6.89	0.6	0.6
Ostatní pracovníci	4	1	3	0	0	4	2.69	0	0

[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2024 (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 31.12.2024 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2024)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	5	31	6	13	5	14	17
Ženy	4	13	0	3	4	6	6

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	1	0.0	1	1.0	3	2.2	3	3.0	5	1.9	4	2.4	2	1.1	4	2.0	11	8.4
Ženy	2	1.0	1	1.0	0	0.0	5	4.1	3	0.8	2	1.0	1	1.0	1	1.0	2	1.5

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	53.8	56.8	56.6
Ženy	50.5	49.1	48.6
Spolu	52.3	54.4	54.0

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

Dňa 1.1.2022 Matematický ústav SAV zmenil sa z rozpočtovej formy hospodárenia na vedeckú výskumnú inštitúciu a je to Matematickú ústav SAV, v. v. i.

V roku 2022 prebehla periodická evaluácia ústavov SAV za roky 2016—2021. V roku 2022 prebehlo tiež Periodické hodnotenie výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti, ktoré organizovalo Ministerstvo školstva, vedy, výskumu a športu SR, kde sa hodnotila publikačná činnosť v oblasti matematiky za roky 2015—2019, podľa ktorého MÚ SAV, v.v.i. mal 8 % svetovú úroveň, 32 % významnú svetovú úroveň, 32 % medzinárodnú úroveň a 12 % národnú úroveň. Tým sa zaradilo medzi významné matematické pracoviská SR včítane slovenských univerzít. Vzhľadom na dobré hodnotenie v rámci MŠVVŠ SR, sme mohli vypísať medzinárodné konkurzy na získanie pozície na MÚ SAV, v. v. i. Boli sme úspešní a v r. 2024 sme získali dve miesta, na jedno prišla mladá postdoktorandka zo Španielska.

Od 1. augusta 2022 nastúpil na MÚ SAV, v. v. i. na 36 mesiacov Dr. Omid Zahiri, Teherán, Irán, ako štipendista SASPRO II, ktorý je financovaný European Union's Horizon 2020Research and Innovation Programme základe projektu Marie Sklodowska-Curie. Dr. Zahiri pokračuje vo svojom projekte v rámci štipendia SASPRO.

V priebehu roka 2024 nastúpili na doktorandské štúdium jeden doktorand z Egypta, ktorý už začal aj publikovať, jeden doktorand z Pakistanu a ďalší ďoktorand z Pakistanu bol prijatý s nástupom 1.1.2025. Zo Slovenska nastúpili dvaja uchádzači o doktorandské štúdium, z toho jeden na externé štúdium..

V rámci Týždňa vedy, november 2024, sme na MÚ SAV, v. v. i. zorganizovali Deň otvorených dverí. Na prednáškach pre študentov sa podieľali pracovníci v Bratislave ako aj na pobočke v Košiciach. Dr. E. Halušková organizovala matematické prednášky pre žiakov základných škôl.

Časopis Mathematica Slovaca má impaktový faktor IF(2023)=0,9, čím sa dostal do 2. kvartilu v sekcii matematika. Päťročný impakt faktor je 0.9. V databáze Scopus má časopis SJR(2023) = 0.404, ktorý je mierne znížený oproti SJR(2022)=0.418, (Scimago Journal Ranking), Cite Score =2.1 a je v 2. kvartile. Počet zaslaných článkov v r. 2024 bol okolo 780.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR(2022)=0,275 (Scimago Journal Ranking), Cite Score = 1.0 a je v 3. kvartile.

V spolupráci s Trnavskou univerzitou a spoločnosťou Merchant, s.r.o. sme pokračovali v riešení grant InoCHF -Výskum a vývoj v oblasti inovatívnych technológií a manažmente pacientov s CHF(ITMS-2014+NFP313011BWH2), ktorého financovanie bolo už ukončené.

Začali sme riešenie projektu Plánu obnovy 09I05-03-V02-00084, *Digital solutions in support of mental health in patients with CHF*, ako hlavný riešiteľ od 1. 4. 2024 v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o. Projekt bude financovaný v roku 2025, 2026 a rok 2024 bude spätne prefinancovaný.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2024

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	11	2	62488	60346	-	-	2088	-
2. Projekty APVV	2	7	-	-	57706	38596	-	54203
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	3	0	-	-	73711	73711	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	-	-	54347	54347	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	-	1	1
2. Projekty výziev EŠIF podané r. 2024	Bratislava		
	Regióny		

- Advances in the qualitative theory of ordinary, partial, and fractional differential equations (I. Jadlovská).
- Globálne existenciálne riziká a ich dopady na ekonomiku a spoločnosť (nositeľ: EÚ SAV)

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2024

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	A	B
Počet podaných projektov Horizont Európa		

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

V roku 2025 bude podpísaná zmluva o partnerstve na riešenie projektu Plánu obnovy 09I05-03-V02-00084, Digital solutions in support of mental health in patients with CHF, ako hlavný riešiteľ MÚ SAV, od 1. 4. 2024, v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o. Projekt bude financovaný v roku 2025 a 2026 s celkovým objemom zhruba 1 milión EUR

Ďalej predpokladáme podať ďalšie granty v oblasti aplikácií matematike v medicíne a doprave.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

Popis štruktúry špeciálnych nekomutatívnych asociatívnych funkcií

Podarilo sa nám charakterizovať všetky pseudo-uninormy so spojitými pridruženými funkciami, definované na jednotkovom intervale, pomocou ich rozkladu cez Cliffordov ordinálny súčet. Každá takáto pseudo-uninorma sa dá rozložiť na reprezentovateľné a triviálne pologrupy, a špeciálne pologrupy definované na dvoch bodoch, kde príslušná pologrupová operácia je projekcia na jednu zo súradníc. Tiež sme charakterizovali lineárne usporiadania, pre ktoré je ordinálny súčet takýchto pologrúp pseudo-uninormou.

V ďalšej práci sa nám podarilo charakterizovať idempotentné pseudo-*n*-uninormy, ktoré sú nekomutatívnou verziou idempotentných *n*-uninoriem. Najskôr sme charakterizovali idempotentné pseudo-*2*-uninormy pomocou ich rozkladu na idempotentnú pseudo-uninormu a špeciálnu idempotentnú pseudo-*2*-uninormu, pre ktorú je deliaci bod z (ľavým/pravým) anihilátorom. Tiež sme ukázali štruktúru združeného usporiadania náležiaceho pseudo-*2*-uninorme. Tieto výsledky sme potom použili pri charakterizácii všetkých idempotentných pseudo-*n*-uninoriem, ktoré sme rozložili na základe ich množiny ľavých (pravých) anihilátorov a Cliffordovho ordinálneho súčtu. Získané výsledky ukazujú, že štruktúra pseudo-*n*-uninoriem je výrazne odlišná od štruktúry *n*-uninoriem a vo všeobecnosti idempotentná pseudo-*n*-uninorma nemôže byť rozložená pomocou *z*-ordinálneho súčtu.

Autori: A. Zemánková (MÚ SAV, v.v.i.), J. Kalafut (StaF STU, Bratislava)
Projekty: VEGA 1/0036/23, APVV-20-0069.
Referencie:

1. J. Kalafut, **A. Mesiarová-Zemánková,** Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum, Information Sciences 690, (2025), 121573.

2. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-*n*-uninorms – Part I, Fuzzy Sets and Systems (zaslané).
3. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-*n*-uninorms – Part II, Fuzzy Sets and Systems (zaslané).

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Description of the structure of special non-commutative associative functions

We have shown the decomposition of all pseudo-uninorms with continuous underlying functions, defined on the unit interval, via Clifford's ordinal sum. Each such pseudo-uninorm can be decomposed into representable and trivial semigroups, and special semigroups defined on two points, where the corresponding semigroup operation is the projection to one of the coordinates. Linear orders, for which the ordinal sum of such semigroups yields a pseudo-uninorm, were also characterized.

We have also characterized idempotent pseudo-*n*-uninorms, which represent a non-commutative version of idempotent *n*-uninorms. First, we have characterized idempotent pseudo-*2*-uninorms by their decomposition into an idempotent pseudo-uninorm and a special idempotent pseudo-*2*-uninorm, for which the division point *z* is a (left/right) annihilator. We have also shown the structure of a pair-order related to an idempotent pseudo-*2*-uninorm. These results were then used in the characterization of all idempotent pseudo-n-uniforms, which were decomposed according to their set of the left (right) annihilators and Clifford's ordinal sum. The achieved results reveal that the structure of pseudo-*n*-uninorms is significantly different from that of *n*-uninorms and general pseudo-*n*-uninorms cannot be decomposed via *z*-ordinal sum.

Authors: **A. Zemánková (MÚ SAV, v.v.i.),** J. Kalafut (StaF STU, Bratislava)
Projects: VEGA 1/0036/23, APVV-20-0069.
References:
1. J. Kalafut, **A. Mesiarová-Zemánková,** Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum, Information Sciences 690, (2025), 121573.
2. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-n-uninorms – Part I, Fuzzy Sets and Systems (submitted).
3. J. Kalafut, **A. Mesiarová-Zemánková,** Idempotent pseudo-n-uninorms – Part II, Fuzzy Sets and Systems (submitted).

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Reprezentácia a vnorenie pseudo MV-algebier so odmocninou

Pokračovali sme vo výskume pseudo MV-algebier s odmocninou, koncentrujúc sa na ich nové charakterizácie. Práca je rozdelená na dve časti. V prvej časti skúmame vzťah medzi pseudo MV-algebrou s odmocninou a jej reprezentujúcou unitálnou l-grupou s vlastnosťou 2-deliteľnosti. Charakterizovali sa nestriktné druhé odmocniny na (H,1)-perfektných pseudo MV-algebrách. V druhej časti sme našli podmienky keď určité triedy pseudo MV-algebier môžu byť vnorené do pseudo MV-algebier s odmocninou. Zaviedli sme pojem striktnej odmocniny a odmocninového uzáveru. Ukázali sme, že každá MV-algebra má odmocninový uzáver. Okrem toho sa skúmali individuálne prvky pseudo MV-algebry a našla sa najväčšia podalgebra špeciálnej pseudo MV-algebry so slabou odmocninou.

Autori: A. Dvurečenskij (MÚ SAV, v.v.i.), O. Zahiri (MÚ SAV, v.v.i.)
Projekty: APVV-20-0069, VEGA No. 2/0142/20 SAV, SASPRO 2, projekt 1048/01/01

Referencie:

1. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 499-527.
2. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots II. Closures*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 529--563.

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Representation and embedding of pseudo MV-algebras with square roots

In the research, we continue to investigate pseudo MV-algebras with square roots, focusing on their new characterizations. The paper is divided into two parts. In the first part, we investigate the relationship between a pseudo MV-algebra with a square root and its corresponding unital l-group in the scene of two-divisibility. We characterize strict and non-strict square roots, and we describe square roots on strongly (H,1)-perfect pseudo MV-algebras. In the second part, we find some conditions under which a particular class of pseudo MV-algebras can be embedded into pseudo MV-algebras with square roots. We introduce and investigate the concepts of a strict square root of a pseudo MV-algebra and a square root closure, and we compare both notions. We show that each MV-algebra has a square root closure. Finally, using the square root of individual elements of a pseudo MV-algebra, we find the greatest subalgebra of a special pseudo MV-algebra with weak square root.

Authors: A. Dvurečenskij (MÚ SAV, v.v.i.), O. Zahiri (MÚ SAV, v.v.i.)

Projects: APVV-20-0069, VEGA No. 2/0142/20 SAV, SASPRO 2, project 1048/01/01

References:

1. **A. Dvurečenskij**, **O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 499-527.
2. **A. Dvurečenskij, O. Zahiri**, *Representation and embedding of pseudo MV-algebras with square roots II. Closures*, J. Appl. Logic IfCoLog Journal of Logics and their Applications **11** (2024), 529--563.

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O retraktových varietách algebier

Duffus, Rival a ďalší autori študovali triedy čiastočne usporiadaných množín, ktoré sú uzavreté na izomorfizmy, retrakty a direktné súčiny. Jakubík nazval triedy algebier s týmito uzáverovými vlastnosťami retraktovými varietami a zaoberal sa retraktovými varietami zväzovo-usporiadaných grúp.
Ak je retraktová varieta generovaná jednou algebrou, tak sa nazýva hlavná a ak je retraktová varieta generovaná množinou algebier sa nazýva množinovo-hlavná.
Dokázali sme, že

a) nie každá množinovo-hlavná retraktová varieta je hlavná a
b) b) nie každá retraktová varieta je množinovo-hlavná.

Konštruktívne sme popísali triedu súvislých monounárnych algebier S takú, že každá retraktová varieta monounárnych algebier je generovaná algebrami, ktoré majú nanajvýš dva navzájom izomorfné komponenty a ktorých všetky komponenty patria do S.
Množinovo-hlavné retraktové variety sme charakterizovali pomocou stupňov prvkov monounárnych algebier.

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Projekty: VEGA 1/0152/22, VEGA 2/0104/24
Referencia:
E. Halušková, D. Jakubíková-Studenovská: ON RETRACT VARIETIES OF ALGEBRAS, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (RACSAM alebo RCSM), pp.18.
Publikované na https://doi.org/10.48550/arXiv.2404.10885

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On retract varieties of algebras

Duffus, Rival, and others studied classes of partially ordered sets that are closed under isomorphisms, retracts, and direct products. Jakubík called classes of algebras with these closure properties retract varieties and dealt with retract varieties of lattice-ordered groups. Let a principal retract variety be generated by one algebra and a set-principal retract variety be generated by some set of algebras.
We have proven that

(a) not each set-principal retract variety is principal, and
(b) (b) not each retract variety is set-principal.

A class of connected monounary algebras S such that every retract variety of monounary algebras is generated by algebras that have all connected components from S and at most two connected components are isomorphic was constructively described. We characterized all set-principal retract varieties of monounary algebras via the degree function of monounary algebras.

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Projects: VEGA grants 1/0152/22 and 2/0104/24
Reference:
E. Halušková, D. Jakubíková-Studenovská: ON RETRACT VARIETIES OF ALGEBRAS, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (RACSAM alebo RCSM), pp.18.
Published on https://doi.org/10.48550/arXiv.2404.10885

2.3.2. Výsledky aplikačného typu

Moderné technické riešenia pre riadenie hraníc (mobilné, dátové, odberové a analytické centrum)

Výskum bol realizovaný v rámci projektu 101102709 - HSQA "Maďarský, slovenský rozvoj mechanizmu zabezpečovania kvality pre riadenie hraníc", spolufinancovaného Európskou úniou.
Táto práca reflektuje súčasný stav zberu, analýzy a vyhodnocovania dát z moderných ochranných a diagnostických systémov pre potreby riadenia hraníc Slovenskej republiky, prípadne Európskej únie a schengenského priestoru. Hlavným cieľom je návrh, vývoj a automatizácia mobilného riadiaceho a testovacieho centra s využitím bezpečnostných a diagnostických systémov. Dizajn tohto centra využíva moderné technické zariadenia a riadiace systémy a ich vzájomnú integráciu s ohľadom na minimalizáciu fyzického kontaktu medzi cestujúcimi a úradníkmi vykonávajúcimi kontrolu. Navrhujú sa niektoré riešenia integrujúce hardvérové a softvérové prostriedky na zber a analýzu dát zo senzorických subsystémov. Zozbierané výstupy meraní sú podrobené lokálnej alebo vzdialenej expertnej analýze. Účelom tejto analýzy je vyhodnotiť stupeň bezpečnosti/rizika subjektu pre povolenie alebo odmietnutie vstupu. Očakáva sa výrazné zvýšenie ochrany pri vstupe na územie SR. Získané výsledky vykazujú vhodné predpoklady pre celkové zlepšenie bezpečnosti, optimalizácie a efektívnosti procesov riadenia schengenských hraníc.

Autori: I. Košč (Akadémia Policajného zboru v Bratislave), **M. Koščová (MÚ SAV, v.v.i.)**, P. Stolárik, J. Mokrá (Akadémia Policajného zboru v Bratislave)
Projekt: VEGA 2/0120/24
Referencia: I. Košč, **M. Koščová**, P. Stolárik, J. Mokrá, /Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center)/ Határrendészeti tanulmányok, vol. **21**, no. 4 (2024), p. 105-117. ISSN 2061-3997
https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/Hatrend_Tan_2024_4_k%C3%BCl%C3%B6nszam_HSQA_v.pdf

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Modern technical solutions for border control (mobile, data, collection and analysis center)

The research was carried out in the framework of project 101102709 - HSQA „Hungarian, Slovak development of quality assurance mechanism on border management," co-funded by the European Union.
This work reflects the current state of collection, analysis, and evaluation of data from modern protection and diagnostic systems for the needs of the border management of the Slovak Republic, or of the European Union and the Schengen area. The main goal is the design, development, and automation of a mobile control and test center, using security and diagnostic systems. The design of this center uses modern technical devices and control systems and their mutual integration regarding the minimization of physical contact between the passengers and the officials carrying out the control. Some solutions integrating hardware and software means for collecting and analysing data from sensory subsystems are proposed. The collected measurement outputs are subjected to local or remote expert analysis. The purpose of this analysis is to evaluate the degree of safety/risk of the subject for allowance or denial of entry. A significant increase in protection when entering the territory of the Slovak Republic is expected. The obtained results show suitable prerequisites for an overall improvement in the security, optimization, and efficiency of the Schengen border management processes.

Authors: I. Košč (Akadémia Policajného zboru v Bratislave), **M. Koščová (MÚ SAV, v.v.i.)**, P. Stolárik, J. Mokrá (Akadémia Policajného zboru v Bratislave)
Project: VEGA 2/0120/24
Reference: I. Košč, **M. Koščová**, P. Stolárik, J. Mokrá, /Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center)/ Határrendészeti tanulmányok, vol. **21**, no. 4 (2024), p. 105-117. ISSN 2061-3997
https://rtk.uni-nke.hu/document/rtk-uni-nke-hu/Hatrend_Tan_2024_4_k%C3%BCl%C3%B6nszam_HSQA_v.pdf

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Automatická klasifikácia textov založená na syntaktických funkciách

Napriek tomu, že výskum klasifikácie textov pomocou syntaktických funkcií má históriu dlhú niekoľko desaťročí, dostatočne presná automatická anotácia je k dispozícii len niekoľko rokov. Preto je dnes možné aplikovať metódy automatickej klasifikácie na oveľa väčšie a rôznorodejšie súbory textov. Táto práca klasifikuje rôzne typy textov v češtine, používajúc pritom relatívne frekvencie tých syntaktických funkcií, ktoré sú definované v korpuse Prague Dependency Treebank. Ako jazykový materiál je použitý veľký vyvážený korpus súčasnej češtiny SYN2020. Vzdialenosti medzi textami sú počítané pomocou kosínusovej delta metódy, potom je na tieto vzdialenosti aplikovaná hierarchická analýza zhlukov. Výsledky ukazujú, že využitie syntaktických funkcií pomáha automaticky klasifikovať rôzne textové žánre.

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Projekty: VEGA 2/0096/21, APVV-21-0216, Operational Programme Integrated Infrastructure (OfPII) for the project 313011BWH2: "InoCHF—Research and development in the field of innovative technologies in the management of patients with CHF," co-financed by the European Regional Development Fund.
Referencia: Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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Automatic text classification based on syntactic functions

Although research has been conducted on text classification based on syntactic features for decades, the recent development of accurate automatic syntactic taggers has enabled scholars to apply the methods to much larger and more diverse datasets than before. This study aims to classify various text types in the Czech language using relative frequencies of syntactic functions, as they are defined in the Prague Dependency Treebank. A large balanced corpus of contemporary written Czech SYN2020 is used as the language material. The distances between texts are calculated using the Cosine Delta method, and then a hierarchical cluster analysis is performed. The results indicate that syntactic functions can contribute to automatic genre classification based on large empirical language data.

Authors: M. Kubát (University of Ostrava, Czech Republic), **J. Mačutek (Mathematical Institute of Slovak Academy of Sciences),** R. Čech (Masaryk University, Brno, Czech Republic), Michaela Nogolová (University of Ostrava, Czech Republic)
Projects: VEGA 2/0096/21, APVV-21-0216, Operational Programme Integrated Infrastructure (OPII) for the project 313011BWH2: "InoCHF—Research and development in the field of innovative technologies in the management of patients with CHF," co-financed by the European Regional Development Fund.
Reference: Kubát, M., **Mačutek, J.,** Čech, R., Nogolová, M. (2024). Automatic genre classification of Czech texts based on syntactic functions. In: Giordano, G., Misuraca, M. (eds.), *New Frontiers in Textual Data Analysis* (pp. 163-172). Cham: Springer.

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Nový rámec pre fitovanie nanointendančnej krivky a odhad neistoty merania

Je dobre známe, že kvantifikácia neistoty je dôležitou súčasťou každého procesu merania a je nevyhnutná na porovnávanie výsledkov získaných rôznymi metódami, prístrojmi alebo laboratóriami. Spracovanie nameraných údajov často vyžaduje prispôsobenie údajov danej funkcii (fitovanie). Bežné metódy ako sú obyčajné nelineárne metódy najmenších štvorcov nie sú schopné spracovávať všeobecné neistoty a korelácie v závislých aj nezávislých premenných. Je zavedená nová výpočtová metóda na prispôsobenie nelineárnej krivky údajom so všeobecnou kovariančnou štruktúrou (OEFPIL). Táto metóda je aplikovaná na Oliverovu-Pharrovu analýzu klesajúcich kriviek a na analýzu rozdielov medzi riešeniami pomocou rôznych regresných metód. Numerické simulácie ukazujú, že nová metóda prináša odhady parametrov v súlade s inými metódami pre jednoduché kovariančné štruktúry. Získané odhady neistoty sú v dobrej zhode so simuláciami metódou Monte Carlo.

Authori: Charvártová Cambel, A. (Czech Metrological Institute, Brno), Geršlová Z., Šindlář, V. (Masarik Univ., Brno), Šlesinger, R. (Czech Metrological Institute, Brno), **Wimmer, G. (MÚ SAV,v.v.i)**

Projekty: GA 19-15240S (Czech Science Foundation), TJ02000203 (Technology Agency of the Czech Republic)
Referencia: Charvártová Cambel, A., Geršlová, Z., Šindlář, V., Šlesinger, R., **Wimmer, G.** *New framework for nanoindentation curve fitting and measurement uncertainty estimation.* Precision Engineering, Journal of the International Societies for Precision Engineering and Nanotechnology. **85** (2024), 166-173.

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New framework for nanoindentation curve fitting and measurement uncertainty estimation

It is well-known that uncertainty quantification is an important part of any measurement process and is essential for comparing results obtained by different methods, instruments, or laboratories. Processing of measured data often requires fitting the data to a given function. Conventional methods, such as ordinary nonlinear least squares methods, are unable to handle general uncertainties and correlations in both dependent and independent variables. A new computational method for nonlinear curve fitting to data with generalized covariance structure (OEFPIL) is introduced. This method is applied to Oliver-Pharr analysis of descending curves and to the analysis of differences between solutions using various regression methods. Numerical simulations show that the new method yields parameter estimates consistent with other methods for simple covariance structures. The uncertainty estimates obtained are in good agreement with Monte Carlo simulations.

Authors: Charvártová Cambel, A. (Czech Metrological Institute, Brno), Geršlová Z., Šindlář, V. (Masarik Univ., Brno), Šlesinger, R. (Czech Metrological Institute, Brno), **Wimmer, G. (MÚ SAV,v.v.i)**
Projects: GA 19-15240S (Czech Science Foundation), TJ02000203 (Technology Agency of the Czech Republic)
References: Charvártová Cambel, A., Geršlová, Z., Šindlář, V., Šlesinger, R., **Wimmer, G. ,** *New framework for nanoindentation curve fitting and measurement uncertainty estimation.* Precision Engineering, Journal of the International Societies for Precision Engineering and Nanotechnology. **85** (2024), 166-173.

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Jednoduchý maticový model vypuknutia epidémie zahrnujúci očkovanie dvoch vekových skupín.

Odvodili sme separovateľný a neseparovateľný maticový model exponenciálnej fázy epidémie vhodný pre analýzu vplyvu vakcinácie vo vekovo heterogénnej populácii. Preskúmali sme vzťahy navrhovaných modelov a odvodili vzťahy pre výpočet reprodukčných čísel týchto modelov. Odvodili sme podmienky za ktorých možno porovnaním reprodukčných čísel porovnať rýchlosť rastu hospitalizácii a navrhli explicitný postup pre určenie optimálnej vakcinačnej stratégie pri ktorej sa eliminuje exponenciálny rast nakazených s použitím minimálneho množstva vakcín. Okrem toho sme bližšie preskúmal vplyv kontaktnosti mladej populácie na optimálne prerozdelenie obmedzeného množstva vakcín.

Autori: I. Mračka, M. Hyčko, R. Hajossy, T. Žáčik (MÚ SAV, v. v. i.)
Projekt: Ústavný projekt.

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A simple matrix model of epidemic outbreak involving the vaccination of two age groups

We derived separable and non-separable matrix models of the exponential phase of the epidemic suitable for analyzing the impact of vaccination in an age-heterogeneous population. We examined the relationships of the proposed models and derived relations for calculating the reproduction numbers of these models. We derived the conditions under which the growth rate of hospitalizations can be compared by comparing reproduction numbers and proposed an explicit procedure for determining the optimal vaccination strategy that eliminates the exponential growth of infected people using the minimum amount of vaccines. In addition, we examined in more detail the impact of the contact rate of the young population on the optimal redistribution of the limited amount of vaccines.

Authors: I. Mračka, M. Hyčko, R. Hajossy, T. Žáčik (MI SAS)
Project: Institutional project.

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2.3.3. Výsledky na báze medzinárodnej spolupráce

Periodické a asymptotické riešenia vo vzbudených pomaly sa meniacich nespojitých diferenciálnych rovniciach.

V [1, 2] sme odvodili podmienky Melnikovovho typu pre perzistenciu periodických riešení vo vzbudených pomaly sa meniacich nespojitých diferenciálnych rovniciach (PSVDDE). Predpokladáme, že nevzbudená/stacionárna rovnica má triedu periodických riešení v závislosti od niektorých parametrov. Výsledky týchto prác zahŕňajú dvojrozmernú Hamiltonovskú triedu nehladkých systémov v závislosti od skalárnej premennej, ktorá je riešením singulárne vzbudenej rovnice. Odvodíme v [3] podmienky Melnikovovho typu pre perzistenciu heteroklinicky asymptotických riešení v PSVDDE a prezentujeme výsledky pre planárne nespojité diferenciálne rovnice s pomaly sa meniacimi koeficientmi. V [4] nachádzame podmienky Melnikovovho typu pre perzistenciu heteroklinicky asymptotických riešení v PSVDDE, keď oproti [3] predpokladáme, že nevzbudená/stacionárna rovnica má parametrický systém heteroklinicky asymptotických riešení. Zostrojíme príklad trojrozmernej Hamiltonovskej nespojitej rovnice. V [5] študujeme existenciu heteroklinicky asymptotických riešení pre nespojité Kurland-Leviho diferenciálne rovnice s pomaly sa meniacimi koeficientmi vznikajúcimi pri modelovaní rastu populácie.

Autori: F. Battelli (Univ. Ancona, Italy), **M. Fečkan (MÚ SAV, v.v.i. FMFI UK),** J.R. Wang (Guizhou University, Guiyang, China)
Projekt: VEGA 2/0062/24
Referencie:
[1] F. Battelli, **M. Fečkan**: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 463-496.
[2] F. Battelli, **M. Fečkan:** Correction: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 2999-3010.
[3] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations, Journal of Differential Equations **400** (2024), 314-375.
[4] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case, Electronic Journal of Qualitative Theory of Differential Equations **27** (2024), 1-30.
[5] F. Battelli, **M. Fečkan,** J.R. Wang: On existence of heteroclinic connections in discontinuous Kurland-Levi differential equations with slowly varying coefficients, International Journal of Bifurcation and Chaos, online ready.

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Periodic and asymptotic solutions in perturbed slowly varying discontinuous differential equations.

We derive in [1, 2] Melnikov type conditions for the persistence of periodic solutions in perturbed slowly varying discontinuous differential equations (PSVDDEs). We assume that the unperturbed/frozen equation has a family of periodic solutions depending on some parameters. Results of these papers involve a two-dimensional Hamiltonian family of non-smooth systems depending on a scalar variable which is the solution of a singularly perturbed equation. We obtain in [3] Melnikov type conditions for the persistence of heteroclinic solutions in PSVDDEs and present results for planar discontinuous differential equations with slowly varying coefficients. We find in [4] Melnikov type conditions for the persistence of heteroclinic solutions in PSVDDEs when opposite to [3], we assume that the unperturbed/frozen equation has a parametric system of heteroclinic solutions. We construction an example of a three-dimensional Hamiltonian discontinuous equation. We study in [5] the existence of heteroclinic solutions for discontinuous Kurland-Levi differential equations with slowly varying coefficients arising in population growth modelling.

Authors: F. Battelli (Univ. Ancona, Italy), **M. Fečkan (MÚ SAV, v.v.i. FMFI UK),** J.R. Wang (Guizhou University, Guiyang, China)
Project: VEGA 2/0062/24
References:
[1] F. Battelli, **M. Fečkan**: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 463-496.
[2] F. Battelli, **M. Fečkan:** Correction: Periodic solutions in slowly varying discontinuous differential equations: a non-generic case, Journal of Dynamics and Differential Equations **36** (2024), 2999-3010.
[3] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations, Journal of Differential Equations **400** (2024), 314-375.
[4] F. Battelli, **M. Fečkan,** J.R. Wang: Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case, Electronic Journal of Qualitative Theory of Differential Equations **27** (2024), 1-30.
[5] F. Battelli, **M. Fečkan,** J.R. Wang: On existence of heteroclinic connections in discontinuous Kurland-Levi differential equations with slowly varying coefficients, International Journal of Bifurcation and Chaos, online ready.

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Kvantové Rényiho divergencie vo von Neumannových algebrách

α-z-Rényiho divergencie boli zavedené ako parametrizovaná trieda verzií klasických Rényiho divergencií pre dvojice matíc hustoty. Táto trieda obsahuje známe kvantové Rényiho divergencie, a síce divergencie Petzovho typu (štandardné) a minimálne (sendvičové) kvantové Rényiho divergencie, ktoré sú dôležité pre asymptotickú teóriu testovania hypotéz. V článku študujeme rozšírenie α-z-Rényiho divergencií pre normálne stavy na von Neumannových algebrách pomocou teórie nekomutatívnych L_p-priestorov a komplexnej interpolácie. Dokázali sme, že oblasť parametrov, pre ktoré sú tieto veličiny nerastúce vzhľadom na kvantové kanály je taká istá ako v špeciálnom prípade maticových algebier. Navyše, ako sme ukázali, pre ľubovoľnú veličinu vnútri tejto oblasti platí, že je zachovaná kvantovým kanálom práve vtedy, ak je daný kanál reverzibilný vzhľadom na danú dvojicu stavov. Taktiež sme študovali monotónnosť týchto veličín vzhľadom na parametre a dokázali sme, že limita pre $\alpha \to 1$ je Arakiho relatívna entropia, ktorá je v tomto kontexte fundamentálnou kvantovou relatívnou entropiou.

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Projekty: VEGA 2/0128/24, APVV-20-0069

Referencia: F. Hiai, **A. Jenčová,** α-z-Rényi divergences in von Neumann algebras: data-processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics **405**, (2024), Art. Num. https://doi.org/10.1007/s00220-024-05124-1

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Quantum Rényi divergences in von Neumann algebras

The α-z-Rényi divergences were introduced as a parametrized family of versions of the classical Rényi divergence for pairs of density matrices. This family contains two important quantum Rényi divergences, namely the Petz-type (standard) and the minimal (sandwiched) quantum Rényi divergence, which were shown to be fundamental in asymptotic hypothesis testing. We studied the extension of the α-z-Rényi divergences and their properties in the general framework of normal states on von Neumann algebras, using the theory of noncommutative Lp-spaces and complex interpolation. In particular, we proved that the range of parameters for which these quantities do not increase under quantum channels is the same as in the special case of matrix algebras. Moreover, we have shown that for a pair of normal states, any quantity inside the range is preserved by a channel if and only if the channel is reversible on the states. We also studied the monotonicity of the quantities in the two parameters and proved that the limit for $\alpha \to 1$ is the Araki relative entropy, which is seen as the fundamental quantum relative entropy in this context.

Authors: Fumio Hiai, Tohoku University, Japan, **A. Jenčová (MÚ SAV, v.v.i.)**
Projects: VEGA 2/0128/24, APVV-20-0069
Reference: F. Hiai, **A. Jenčová,** α-z-Rényi divergences in von Neumann algebras: data-processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics **405**, (2024), Art. Num. https://doi.org/10.1007/s00220-024-05124-1

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Globálne správanie riešení v chemotaktických systémoch s rôznymi vplyvmi

Chemotaxia označuje jav, pri ktorom organizmy alebo bunky vykonávajú smerový pohyb stimulovaný určitými chemickými látkami, vrátane pohybu smerom k oblastiam alebo od oblastí s vysokými koncentráciami chemických podnetov. Tento jav má veľký význam pre skúmanie fylogenetických mechanizmov živých organizmov. Získané výsledky sú zamerané na pokrok v matematickom modelovaní chemotaktických systémov. Zahrnutím rôznych zložitých interakcií, ako sú nelineárna samodifúzia, krížová difúzia, nelineárny vplyv produkcie a konkurenčná kinetika, v našich prácach rozširujeme klasický Kellerov–Segelov model o biologicky realistickejšie scenáre.
Konkrétne sme skúmali:
1. Príťažlivo-odpudivé (atrakčno-repulzné) modely chemotaxie zahŕňajúce nelineárne citlivosti závislé od signálu a rôzne logistické zdroje pre dynamiku hustoty buniek; nelineárnu samodifúziu, krížovú difúziu a logistické zdroje pre dynamiku hustoty buniek, a nelineárny vplyv produkcie pre koncentrácie chemických signálov
2. Modely súťaže dvoch druhov v chemotaxii zahŕňajúce citlivosti závislé od signálov pre dynamiku dvoch druhov a nepriamy vplyv spotreby signálov na koncentrácie chemických signálov; difúziu a citlivosti závislé od signálov, Lotka-Volterrovu konkurenčnú kinetiku pre dynamiku dvoch druhov a nelineárny vplyv produkcie signálov pre ich zodpovedajúce chemoatraktanty.
Každá práca prispieva novými teoretickými výsledkami odvodením postačujúcich podmienok pre existenciu globálneho riešenia, resp. kolaps riešenia v konečnom čase, ako aj energetickú analýzu, čím obohacuje súčasnú literatúru o chemotaktických systémoch.

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Projekty: NNSF of P. R. China (Grant No. 61503171), CPSF, China (Grant No. 2015M582091), NSF of Shandong Province, China (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII), Slovakia for the project 313011BWH2: "InoCHF–Research and development in the field of innovative technologies in the management of patients with CHF", co-financed by the European Regional Development Fund.

Referencie:

1. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Global existence in a fully parabolic attraction-repulsion chemotaxis system with singular sensitivities and proliferation.* Journal of Differential Equations **411** (2024), 227-267.
2. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Finite-time blow-up and boundedness in a quasilinear attraction–repulsion chemotaxis system with nonlinear signal productions.* Nonlinear Analysis: Real World Applications **77** (2024), 104023.
3. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Boundedness and stabilization in a two-species chemotaxis-competition system with signal-dependent sensitivities and indirect signal consumption.* Journal of Mathematical Analysis and Applications **540** (2024), 128546.
4. Jiao, Zhan, I. Jadlovská, and Tongxing Li. *Global Behavior in a Two-Species Chemotaxis-Competition System with Signal-Dependent Sensitivities and Nonlinear Productions.* Applied Mathematics & Optimization **90** (2024), 11.

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Global behavior of solutions in chemotaxis systems with different effects

Chemotaxis refers to a common phenomenon in which organisms or cells make directional movements stimulated by certain chemicals, including moving towards or away from places with high concentrations of chemical stimuli, which is of great significance to explore the phylogenetic mechanism of life systems. Our results are focused on advancing the mathematical modeling of chemotaxis systems. By incorporating various complex interactions such as nonlinear self-diffusion, cross-diffusion, nonlinear production impact, and competitive kinetics, our work extends classical Keller–Segel models to address biologically more realistic scenarios.
In particular, we investigated:
1. attraction-repulsion chemotaxis models involving: nonlinear signal-dependent sensitivities and different logistic sources for the dynamics of the cell density; nonlinear self-diffusion, cross-diffusion coefficients and logistic source, for the dynamics of the cell density, and nonlinear productions impact, for the chemical signals concentrations.
2. two-species chemotaxis-competition models involving: signal-dependent sensitivities for the dynamics of the two species and indirect signal consumption impacts for the chemical signal concentration ; signal-dependent diffusion and sensitivities, Lotka-Volterra competitive kinetics for the dynamics of the two species, and nonlinear signal productions impacts for their corresponding chemoattractant concentration.
Each study contributes novel theoretical results by deriving sufficient conditions for global boundedness, finite-time blow-up, and energy analysis, thereby enriching the current literature on chemotaxis systems.

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Projects: NNSF of P. R. China (Grant No. 61503171), CPSF, China (Grant No. 2015M582091), NSF of Shandong Province, China (Grant No. ZR2016JL021), and the Operational Programme Integrated Infrastructure (OPII), Slovakia for the project 313011BWH2: "InoCHF–Research and development in the field of innovative technologies in the management of patients with CHF", co-financed by the European Regional Development Fund.

References:

1. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Global existence in a fully parabolic attraction-repulsion chemotaxis system with singular sensitivities and proliferation.* Journal of Differential Equations **411** (2024), 227-267.
2. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Finite-time blow-up and boundedness in a quasilinear attraction–repulsion chemotaxis system with nonlinear signal productions.* Nonlinear Analysis: Real World Applications **77** (2024), 104023.
3. Jiao, Zhan, **I. Jadlovská,** and Tongxing Li. *Boundedness and stabilization in a two-species chemotaxis-competition system with signal-dependent sensitivities and indirect signal consumption.* Journal of Mathematical Analysis and Applications **540** (2024), 128546.
4. Jiao, Zhan, I. Jadlovská, and Tongxing Li. *Global Behavior in a Two-Species Chemotaxis-Competition System with Signal-Dependent Sensitivities and Nonlinear Productions.* Applied Mathematics & Optimization **90** (2024), 11.

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2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplnky z r. 2023
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)	**1 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 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)	**47 / 2**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**28 / 4**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**2 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**1 / 1**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**3 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**0 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**1 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 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 sa 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. 2023 (zdroj JCR) *Počet článkov / doplnky*	27 / 2	22 / 0	8 / 2	3 / 0	60 / 4
Podľa SJR z r. 2023 (zdroj Scimago) *Počet článkov / doplnky*	29 / 0	25 / 2	8 / 2	13 / 2	75 / 6

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2023/ doplnky z r. 2022**
Citácie vo WOS (1.1, 2.1)	949 / 96
Citácie v SCOPUS (1.2, 2.2)	195 / 21
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)	31 / 12
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	52
Prednášky a vývesky na národných vedeckých podujatiach	21

Účasť a vedenie seminárov

Interný seminár o výsledkoch detašovaného pracoviska MÚ SAV v Košiciach
stránka: **https://im.saske.sk/sk/seminar.html**
Vedúci: J. Pócs
Referáty: P. Eliaš, J. Haluška, E. Halušková, M. Hospodár (2x), I. Jadlovská, G. Jirásková (2x), J. Pócs, , M. Repický, F. Silváši (hosť), I. Vlček (hosť)
Účasť: P. Mlynárčik, V. Olejár

Set-Valued Analysis
Vedúci: Ľ. Holá
Referáty: Ľ. Holá, B. Novotný (2x)
Poznámka: 5 konaní, 6 účastníkov.

Seminár o automatoch na MÚ SAV v Košiciach
Vedúci: G. Jirásková
Referáty: M. Hospodár (5x), G. Jirásková (5x), V. Olejár (5x)
Účasť: P. Mlynárčik
Poznámka: Konal sa prezenčne i online formou.

Seminár z topológie a teórie množín na PF UPJŠ
Vedúci: J. Šupina (PF UPJŠ)
Referáty: P. Eliaš (3x) , M. Repický (2x)
Poznámka: 4-6 účastníkov, 15 konaní

Seminár Fuzzy a neurčitosť na PF UPJŠ
Vedúci: Ľ. Antoni (PF UPJŠ)
Referáty: P. Eliaš

Seminár z diferenciálnej a algebraickej topológie na FMFI UK
Vedúci: T. Macko
Referáty: Macko (4x)

Seminár z usporiadaných algebraických štruktúr na PF UPJŠ
Vedúci: M. Ploščica (PF UPJŠ)
Referáty: E. Halušková, J. Pócs (4x), V. Olejár

Seminár z kvalitatívnej teórie diferenciálnych rovníc, spoločný seminár MÚ SAV Košice a KMTI FEI TU
Vedúci: J. Džurina (KMTI FEI TUKE)
Referáty: I. Jadlovská (2x)

Panglobal Algebra and Logic Seminar (Univ. Colorado, USA)
Stránka: **http://math.colorado.edu/algebralogic/**
Vedúci: K. A. Kearnes (Univ. Colorado, USA)
Účasť: E. Halušková

RCQI seminár
Vedúci: M. Sedlák (FÚ SAV)
Účasť: A. Jenčová

Seminár z kryptológie na FEI STU
Vedúci: O. Grošek
Účasť: K. Nemoga, P. Sýs

Categorical Quantum Mechanics
Vedúci: G. Jenča (SvF STU)
Referáty: A. Jenčová
Poznámka: 10 konaní, 5 účastníkov.

Drahlin's Seminar on Functional Differential Equations (online)
Vedúci: A. Domoshnitsky (Ariel Univ., Israel)
Referáty: N. Dilna
Poznámky: 50 konaní, 10 účastníkov

Seminář z univerzální algebry a uspořádaných množin na PF UP, Olomouc, ČR
Vedúci: I. Chajda (PF UP, Olomouc, ČR)
Referáty: J. Pócs
Poznámky: 20 konaní, 10 účastníkov

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. **FEČKAN, M.**: *Slowly varying discontinuous differential equations*, International Conference on Mathematics and its Applications in Science & Technology (ICMAST-2024), Central University of Punjab, Bathinda, India and Pondicherry University, Pondicherry, India, 30. 8. –31. 8. 2024 (keynote speaker)

2. HIAI, F.—**JENČOVÁ, A.**: *On alpha-z-Renyi divergences in von Neumann algebras*, Towards Infinite Dimension and Beyond in Quantum Information, BIRS workshop, Granada, 5. 5.–10. 5. 2024
3. HIAI, F.—**JENČOVÁ, A.**: *On alpha-z-Renyi divergences in von Neumann algebras*, Focused Workshop on Quantum Rényi Divergences, Erdos Center, Budapest, 22. 7.–27. 7. 2024
4. **HOLÁ, Ľ.**—BALCERZAK, M.—HOLÝ, D.: *Properties of equi-Baire 1 and equi-Lebesgue families of functions*, Inspirations in Real Analysis, Bedlewo, Poľsko, 14. 4.–19. 4. 2024.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. **MAČUTEK, J.**: *The Menzerath-Altmann law*, Oslo Metropolitan University, Oslo, Nórsko, 17. 9. 2024

2.6.4. Prednášky na medzinárodných vedeckých podujatiach

1. **AGU, F. I.**—**MAČUTEK, J.**: *Some extensions of the Schroter distribution family* (poster), PROBASTAT 2024, Smolenice, 20. 5.–24. 5. 2024
2. **AGU, F. I.**: *The truncated Schröter recursive algorithm for computation of aggregate claim amounts*, 1st Annual Conference & 1st Pre-Conference Workshop, Abuja, Nigéria, 11. 11.–15. 11. 2024
3. **BEČKA, M.**—**OKŠA, G.**: *Preconditioning of the One-Sided Block-Jacobi SVD Algorithm by Polar Decomposition*, 15th Int. Conf. on Parallel Processing and Applied Mathematics, Ostrava, ČR, 8. 9.–11. 9. 2024
4. BENEŠ, V.—SVÍTEK, M.—**MICHALÍKOVÁ, A.**—MELICHERČÍK, M.: *Investigating the impact of meteorological and traffic flow conditions on emissions*, Informatics 2024. 2024 IEEE 17th International Scientific Conference on Informatics. Poprad, Slovakia, 13. 11.–15. 11. 2024
5. **ČAPKA, F.**: *On argmin multifunction*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024
6. **ČUNDERLÍKOVÁ, K.**: *A note about almost uniform convergence on D-poset of intuitionistic fuzzy sets*, ICIFS'2024, Burgas, Bulharsko, 5. 7.–6. 7. 2024
7. **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and almost uniform convergence* (online), IWIFSGN'2024, Varšava, Poľsko, 18. 10. 2024
8. **ČUNDERLÍKOVÁ, K.**: *Intuitionistic fuzzy probability and two theorems from extreme value theory*, Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 13. 12. 2024
9. **DILNA, N.**: *D-stability of the model of the Stieltjes string*, The Equadiff conference 2024, Karlstad, Sweden, 10. 6.–14. 6. 2024
10. **DILNA, N.**—**LANGEROVÁ, M.**: *Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Functional Integro-Differential Equation*, ICFDA 2024 Conference on Fractional Differentiation and its Applications, Bordeaux, France, 9.7.–12.7.2024
11. **ELIAŠ, P.**: *On uniformly dense sets of functions*, The 38th International Summer Conference on Real Functions Theory, Stará Lesná, Slovensko, 15. 9.–20. 9. 2024
12. FERNÁNDEZ-PERALTA, R.—MASSANET, S.—**MESIAROVÁ-ZEMÁNKOVÁ, A.**—MIR, A.: *On the T-powers of 0 in the invariance property on fuzzy implication functions*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024

13. HALAŠ, R.—**PÓCS, J.**: *Sugeno Integral: compatibility and its relation to distributivity*, The Seventeenth International Conference on Fuzzy Set Theory and Applications FSTA 2024, Liptovský Ján, 29. 1.–2. 2. 2024
14. HALAŠ, R.—**PÓCS, J.**: *Zerodivisor graphs on infinite posets*, Summer School on General Algebra and Ordered Sets 2024, Hotel Soláň, Karolinka, Česká Republika, 8. 9.–13. 9. 2024
15. **HALUŠKA, J.**: *Sound linear variety of normed principal mensure*, Acoustics 2024 High Tatras, Štrbské Pleso, 12. 6.–16. 6. 2024
16. **HALUŠKOVÁ, E.**: *On retract varieties of algebras*, AAA105 – Workshop on general algebra, Praha, 30. 5.–2. 6. 2024
17. **HALUŠKOVÁ, E.**: *On pre-periods of endomorphisms of finite modular lattices*, SSAOS 2024, Hotel Soláň, Karolinka, Česko, 8. 9.-13. 9. 2024
18. **HOSPODÁR, M.—OLEJÁR, V.**—ŠEBEJ, J.: *Decision Problems for Subregular Classes*, CIAA '24, Akita, Japonsko, 3. 9.–6. 9. 2024
19. **HYČKO, M.**: *Counting fuzzy subgroups in U_6n*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024
20. CHARVÁTOVÁ-CAMPBELL, A.—ŠLESINGER, R.—WITKOVSKÝ, V.—**WIMMER, G.**—BURŠÍKOVÁ, V.: *Applications of Iterated Linearization for Non-Linear Errors-in-Variable Regression to Metrological Data*, XXIV IMEKO World Congress "Think Metrology", Hamburg, Germany, 26. 8.–29. 8. 2024
21. CHEN, X.—KUBÁT, M.—**MAČUTEK, J.**: *Directions of Dependency Structures in the Czech National Corpus SYN2020: Syntactic Indices for Text Classification*, The 17th International Conference on Statistical Analysis of Textual Data (JADT 2024), Bruxelles, Belgicko, 25. 6.–27. 6. 2024
22. JIRÁSEK, J.—**JIRÁSKOVÁ, G.**—SHALLIT, J.: *State complexity of the minimal star basis*, CIAA '24, Akita, Japonsko, 3. 9.–6. 9. 2024
23. **HOLÁ, Ľ.**—HOLÝ, D.: *Quasicontinuity and the topology of uniform convergence on compacta*, XXXVIII International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024
24. **HOLÁ, Ľ.**—HOLÝ, D.: *Properties of equi-Baire 1 and equi-Lebesgue families of functions*, ATA 2024, Vrnjacka Banja, Serbia, 29. 6.–3. 7. 2024
25. KALAFUT, J.—**MESIAROVÁ-ZEMÁNKOVÁ, A.**: *Clifford ordinal sum yeilding a pseudo-uninorm with continuous underlying function*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024
26. **LANGEROVÁ, M.**: *On solutions of beam equation with impulses*, New Trends in the Applications of Differential Equations in Sciences, Varna, Bulharsko, 7. 7.–10. 7. 2024
27. **MAČUTEK, J.**—ČECH, R.—NOGOLOVÁ, M.—ROVENCHAK, A.: *What does the Menzerath-Altmann law really say?*, International Workshop on Corpus and Computational Linguistics, Univ. Ostrava, Ostrava, ČR, 28 5. 2024
28. MELICHERČÍK, M.—**MICHALÍKOVÁ, A.**—SILÁDI, V.: *Level of Service classifications within the Smart City concept using Artificial Intelligence tools*, Informatics 2024. 2024 IEEE 17th International Scientific Conference on Informatics. Poprad, Slovakia, 13. 11.–15. 11. 2024
29. **MESIAROVÁ-ZEMÁNKOVÁ, A.**— MESIAR, R.—SU, Y.—WANG Z.: *How to help Cinderella sort the values of idempotent uninorms on bounded lattices* (online), The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024
30. **MICHALÍKOVÁ, A.**: *Using Takagi-Sugeno Fuzzy Inference System in Explanation of Data Approximation*, 22nd International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets. Warsaw, Poland, 18. 10. 2024
31. **MICHALÍKOVÁ, A.**—GÁPEROVÁ, S.—GÁPER, J.—DUDÁŠ, A.—BRUCHÁČOVÁ, M.: *Digitalization of Identification Keys for Wood Fungi in Education of University*

Mycology, ICETA 2024 : 22th IEEE international conference on emerging eLearning technologies and applications, Starý Smokovec, 24. 10.–25. 10. 2024

32. **NEDELA, R.**: *Coherent partitions of cubic graphs*, The 59th Czech-Slovak Conference on Graph Theory 2024 (CSGT24), Trojanovice, ČR, 3. 6.–7. 6. 2024
33. **NEDELA, R.**: *Berge and 7/5-conjectures hold true for certain families of snarks*, Workshop HOMONOLO 2024, Nová Louka, ČR, 2. 12.–6. 12. 2024
34. **NEMOGA, K.**: *Post Quantum World , NATO Scientific Projects*, Workshop NATO "Secure Communication via Classical and Quantum Technologies", NATO Project G5985, Madrid, Španielsko, 6. 9. 2024
35. NOGOLOVÁ, M.—**MAČUTEK, J.**—KUBÁT, J.: *What can be heard in the Czech Parliament*, The 17th International Conference on Statistical Analysis of Textual Data (JADT 2024), Bruxelles, Belgicko, 25. 6.–27. 6. 2024
36. **NOVOTNÝ, B.**—**HOLÁ, Ľ.**: *Baire-like properties of the space of minimal usco maps*, Inspirations in Real Analysis II, Bedlewo, Poľsko, 14. 4.–19. 4. 2024
37. **NOVOTNÝ, B.**—**HOLÁ, Ľ.**: *Baire-like properties of the space of minimal usco maps*, Analysis, Topology and Applications 2024, Vrnjačka Banja, Srbsko, 29. 6.–3. 7. 2024
38. **NOVOTNÝ, B.**: *Spaces of minimal usco and minimal cusco maps as Fréchet topological vector spaces*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024
39. **NOVOTNÝ, B.**—BARDYLA, S.—ŠUPINA, J.: *Local and global properties of spaces of minimal usco maps*, The 38th International summer conference on real functions theory, Stará Lesná, 15. 9.–20. 9. 2024
40. **PAPČO, M.**: *On aggregation of multi-valued data*, The 17th International Conference on Fuzzy Set Theory and Applications (FSTA 2024), Liptovský Ján, 29. 1.–2. 2. 2024
41. **PLÁVALOVÁ, E.**: *Classifications for exoplanet and exoplanetary systems - could it be developed?* (poster), Rocky Worlds III, Zürich, Switzerland, 8. 1.–12. 1. 2024
42. **PLÁVALOVÁ, E.**: *Classifications for Exoplanet and Exoplanetary Systems – Could It Be Developed?*, The Planet Characterization in the Solar System and the Galaxy, Lunar and Planetary Institute (LPI), Houston, Texas, USA, 21. 2.–22. 2. 2024
43. **PLÁVALOVÁ, E.**: *Classifications for exoplanet and exoplanetary systems - could they be developed?* (poster), (Exo)Planet Diversity, Formation and Evolution, Max Planck Institute for Solar Research, Göttingen, Germany, 3. 12.–5. 12. 2024
44. **PÓCS, J.**: *On compact elements in lattices of aggregation functions*, Uncertainty modeling 2024, Košice, 24. 5.–25. 5. 2024
45. SAKER, S. H.—ALZABUT, J.—**SAIED, A. I.**—O'REAGAN, D.: *New characterizations of weights on dynamic inequalities involving a Hardy operator*, The 6th International Conference for Mathematics & Its Applications(ICMA24) – Artificial Intelligent and Computational Mathematics, Smart Village Campus, Egypt, 30.11.-1.12.2024
46. **WIMMER, G.**—PALENČÁR, J.—DOVICA, M.—PALENČÁR, R.—TÓTH, T.—WITKOVSKÝ, V.: *Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device*, XXIV IMEKO World Congress "Think Metrology" , Hamburg, Germany, 26. 8.–29. 8. 2024
47. **WIMMER, G.**—WITKOVSKÝ, V.: *Calibration model as a straight-line errors-in-variables model*, Probastat 2024, Smolenice, 20. 5.–24. 5. 2024
48. WITKOVSKÝ, V.—**WIMMER, G.**—CHARVÁTOVÁ-CAMPBELL, A.—KLAPETEK, P.—ŠLESINGER, R.: *Estimation of Function Parameters through Iterated Linearization for Nonlinear Errors-in-Variable Regression with Correlated Variables*, XXIV IMEKO World Congress "Think Metrology", Hamburg, Germany, 26. 8.–29. 8. 2024

2.6.5. Prednášky na domácich vedeckých podujatiach

1. **AGU, F. I.**: *Exploring truncated distributions from the Schroter family ditributions* , ROBUST 2024, 23. letná škola JČ(S)MF, Bardejov, 8. 9.–13. 9. 2024
2. **ČUNDERLÍKOVÁ, K.**: *Introduction to the intuitionistic fuzzy sets* (online), Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
3. **DVUREČENSKIJ, A.**: *From the history of the Institute*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
4. **ELIAŠ, P.**: *Constructing free orthomodular poset over an orthoposet*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
5. **ELIAŠ, P.**: *Ideals related to permitted sets*, Workshop Topological Stuctures, Bratislava, 3. 6.–5. 6. 2024
6. **HALUŠKOVÁ, E.**: *Modular lattice – a short memory of the centenary of the birth of Ján Jakubík*, 22. Konferencia košickým matematikov, Herľany, 25. 4.–27. 4. 2024
7. **HOSPODÁR, M.**: *Zložitosť operácií v podtriedach regulárnych jazykov*, Súťaž mladých vedeckých pracovníkov do 35 rokov, Zasadačka SAV, Bratislava, 30. 4. 2024 (obsadené 3. miesto)
8. **JADLOVSKÁ, I.**: *Recent contributions to the theory of differential, difference and dynamic equations*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
9. **JENČOVÁ, A.**: *Rényi divergences in quantum information theory*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
10. **KARABÁŠ, J.**: *Classification of finite group actions on orientable surfaces*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
11. KOŠČ, I.—STOLÁRIK, P.—**KOŠČOVÁ, M.**—MOKRÁ, J.: *Moderné technické riešenia riadenia Schengenských hraníc*, Dvadsať rokov členstva slovenskej republiky v európskej únii - prínosy, výzvy, očakávania, Bratislava, 21. 5.–22. 5. 2024
12. **MACKO, T.**: *Surgery Theory*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
13. **MAČUTEK, J.**—**KOŠČOVÁ, M.**: *Partial-sums discrete probability distributions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
14. **MESIAROVÁ-ZEMÁNKOVÁ, A.**: *Structure of associative fusion functions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
15. **MRAČKA, I.**: *Mathematical modeling of the Covid-19 epidemic in the context of Slovakia*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
16. **NEMOGA, K.:** *65th Anniversary of the Institute of Mathematics of the Slovak Academy of Sciences*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
17. **NEMOGA, K.:** *Current tasks, evaluations of the Institute in 2026*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
18. **NOVOTNÝ, B.:** *Minimal USCO multifunctions*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
19. **OKŠA, G.:** *Efficient Serial and Parallel Block-Jacobi EVD/SVD Algorithms*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
20. **PÓCS, J.:** *Zero-divisor graphs of posets*, Seminár pri príležitosti 65. výročia založenia MÚ SAV, Smolenice, 13. 10.–15. 10. 2024
21. **WIMMER, G.**—WITKOVSKÝ, V.—ZŮDA, J.: *Kalibrácia dvoch závaží s použitím referenčného závažia*, ROBUST 2024, 23. letná škola JČ(S)MF, Bardejov, 8. 9.–13. 9. 2024

2.6.6. Prednášky na významných vedeckých inštitúciách

1. **JIRÁSKOVÁ, G.**: *Deterministic blow-ups of nondeterministic finite automata*, Santa Clara University, Department of Mathematics and Computer Science, Colloquium, 25. 6. 2024

2.6.7. Ostatné prednášky a vývesky

1. **DVUREČENSKIJ, A.**: *Príhovor organizátora k otvoreniu konferencie PROBASTAT 2024*, PROBASTAT 2024, Smolenice, 20. 4. 2024

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2024

2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2024

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2024

b) udelené v roku 2024

2.7.4. Realizované vynálezy

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

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

Finančný prínos pre organizáciu SAV v roku 2024 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
Zemánková Andrea	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bečka Martin	0	0	1	0	0	0	0
Čunderlíková Katarína	0	0	5	0	0	0	0
Dilna Natália	0	0	3	0	0	0	2
Fečkan Michal	0	1	10	0	0	0	0
Fernández-Peralta Raquel	0	0	2	0	0	0	0
Halušková Emília	0	0	1	0	0	0	1
Holá Ľubica	0	0	6	0	0	0	0
Hospodár Michal	0	0	1	0	0	0	0
Hyčko Marek	0	0	3	11	0	0	0
Jadlovská Irena	0	0	16	0	0	0	0
Jenčová Anna	0	0	12	0	0	0	0
Jirásková Galina	0	0	1	0	0	0	0
Kochol Martin	0	0	4	13	0	0	0
Langerová Martina	0	0	0	0	0	0	1
Macko Tibor	0	0	1	0	0	0	0
Mačutek Ján	0	0	17	0	0	0	10
Novotný Branislav	0	0	6	0	0	0	0
Okša Gabriel	0	0	2	0	0	0	0
Pócs Jozef	0	0	3	4	0	0	3
Pospíšil Michal	0	0	7	1	0	0	0
Wimmer Gejza	0	0	10	0	0	0	0
Zemánková Andrea	0	0	25	0	0	0	1
Spolu	**0**	**1**	**136**	**29**	**0**	**0**	**18**

2.11. Iné informácie k vedecko-výskumnej činnosti.

Prehľad dosiahnutých výsledkov

- Skúmali sme súvis medzi skoro rovnomernou konvergenciou intuitionistických fuzzy pozorovateľných a náhodných premenných. Takisto sme sformulovali skoro rovnomernú konvergenciu pre MV-algebru a D-poset intuitionistických fuzzy množín. Ďalej sme sformulovali variácie dvoch viet z teórie extrémnych hodnôt, t.j. Fisherovej-Tippetovej-Gnedenkovej vety a Pickandsovej-Balkemaovej-de Haanovej vety pre intuitionistickú fuzzy pravdepodobnosť.
- Skúmali sa podmienky pre Ulam-Hyersovu stabilitu integro-diferenciálnych rovníc a aj rovníc s odchýlkami argumentov. Tiež sa študovali podmienky riešiteľnosti uvedených rovníc.
- Skúmajú sa rozdiely v reakčných silách medzi začínajúcimi bežcami a rekreačnými bežcami. Výsledky ukázali, že rekreační bežci vykazovali výrazne väčšiu maximálnu vertikálnu nárazovú silu a maximálnu strednú silu ako skupina začiatočníkov. V porovnaní s tým bola ich maximálna hnacia sila menšia ako u skupiny nováčikov.
- Opotrebovanie je tretím najdôležitejším faktorom, ktorý obmedzuje životnosť totálnych náhrad kolena (TNK). Zistilo sa, že rýchlosť opotrebovania sa zvyšuje lineárne ako funkcia veľkosti TNK, zatiaľ čo vplyv geometrických parametrov súvisiacich s TNK možno opísať lineárnymi alebo kvadratickými funkciami.
- Cieľom výskumu je využitie projektov Scratch na organizáciu vzdelávacích aktivít študentov, ako aj na ich tvorivú sebarealizáciu. Vizuálny programovací jazyk na vysokej úrovni založený na blokoch by mohol byť pomocnou technológiou pre učiteľa a nezávislým rozvojovým nástrojom kreativity študentov.
- Študovali sme vzťah medzi MV-algebrami, Bézoutovymi doménami a Abelovskými l-grupami. Vyšetril sme Booloveské prvky a ideály vzhľadom na podmnožiny Bézotových domén.
- Ukázali sme, že každá MV-algebra združená Noetherovskou Bézotovou doménou je konečná. Charakterizovali sme perfektné MV-algebry, (H,1)-perfektné MV-algebry, hyperachimedovské MV-algebry a úplné MV-algebry z pohľadu okruhov.
- Popísali sme podmienky, za ktorých štruktúra zväzu všetkých spojitých funkcií na topologickom priestore jednoznačne určuje štruktúru podkladového topologického priestoru.
- Študovali sme rôzne klasické matematické štruktúry modifikované podľa hudobnej akustiky, napr. také ako sú pojmy: hudobná výška vektora (tónu), kvintový a kvartový kruh tónov a operácie nad nimi, atď. Napr. môžeme skúmať modifikovaný pojem okruhu Fourierových dekompozícií tónov.
- Ukázali sme, že za predpokladu hypotézy kontinua, topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X* \ X,d*) je separabilný, kde (X*,d*) je zúplnenie priestoru (X,d).
- Študujeme výpočtovú zložitosť rozhodovania, či daný deterministický alebo nedeterministický konečný automat rozpoznáva jazyk v danej podtriede regulárnych jazykov. NL-úplnosť tohto problému dokazujeme na oboch modeloch automatov pre triedy bezčiarkových kódov, pevných kódov a singletonových jazykov.
- Boli generované modely idempotentných binárnych funkcií, ktoré spĺňajú určité podmienky. Podarilo sa nájsť modely až do veľkosti n = 8. Zložitosť brute-force metódy je $O(n^3\ n^{(n^2-n)})$, ktorú sa podarilo významne redukovať.
- Našli sme charakterizáciu typov kvantových zobrazení vyššieho rádu (HOM) pomocou kombinácie kategoriálneho prístupu s teóriou typov HOM a ich charakterizáciou pomocou projekcií. Zaviedli sme kategóriu afinných priestorov a dokázali sme, že je *-autonómna, čo nám umožnilo stotožniť typy kvantových HOM s jej určitými objektami. K týmto objektom sa dajú priradiť špeciálne binárne funkcie, ktoré po použití Moebiovej transformácie vieme

reprezentovať pomocou posetu s označenými vrcholmi. Tento poset je reťazec práve vtedy, keď daný HOM typ je kauzálne usporiadaný (komb). Vo všeobecnom prípade je daný typ zložený kombinovaním zreťazení niekoľkých základných reťazcov rôznych poradiach, čo sa dá vyčítať zo štruktúry posetu.

- Študovali sme stavovú zložitosť minimálnej bázy uzáveru. Nech L je regulárny jazyk, ktorý neobsahuje ε. Určíme stavovú zložitosť dvoch operácií L → LL+ a L → L - LL+. To druhé je zaujímavé, pretože L - LL+ je „minimálna báza uzáveru“, množina všetkých reťazcov L, ktoré nemožno napísať ako zreťazenie kratších reťazcov L, koncept, ktorý prvýkrát študoval John Brzozowski v roku 1966.
- Zavádzame zjednocujúci prístup k invariantom na konečných matroidoch zratúvajúcich zobrazenia do konečných množín. Dokázali sme že ak mohutnosti zobrazení na ohraničené množiny spĺňajú podmienky kontrakcie-vynechania, potom existujú vzťahy medzi nimi ktoré je možné vyjadriť pomocou lineárnej algebry. Týmto spôsobom študujeme regulárne chain grupy, nikde-nulové toky a napätia v grafoch a totálne cyklických a acyklické orientácie orientovateľných matroidov a grafov.
- Venovali sme sa štruktúrnej množine k-sférických bandlov nad l-sférami v zmysle teórie chirurgií. Ak k+1=l=4q, tak je známe, že triedy izomorfizmov sú úplne popísané dvoma celými číslami m a n a príslušný bandl značíme Mm,n. Bol publikovaný článok, v ktorom sme pre k=7 a l=8 sme zistili, že v ak n je nesúdeliteľné s 28, tak všetky prvky v štruktúrnej množine STOP(Mm,n) majú reprezentant hladkú varietu.
- Ukázali sme, že takzvanú algebraickú pi-pi vetu možno rozšíriť zo simpliciálnych komplexov na diskové komplexy.
- Študovalo sa zobrazenie z hladkej do topologickej štruktúrnej množiny v zmysle teórie chirurgií pre komplexné projektívne priestory. Podarilo sa nám rozšíriť niektoré výsledky Brumfiela a Littlea, ktoré boli v dimenziách do 12 po dimenziu 28. Taktiež sme sa venovali verzii, kde máme súčin komplexného projektívneho priestoru s diskom, ktorá pred tým nebola študovaná a podarilo sa nám taktiež dosiahnuť výsledky v dimenziách po 28.
- Hierarchická analýza zhlukov bola aplikovaná na relatívne frekvencie syntaktických funkcií v českých textoch. Výsledky sú použité na automatické klasifikovanie textov podľa žánrov.
- Kvantitatívna analýza prejavov poslancov v parlamente ČR ukazuje, že rozhodujúci vplyv na textové indexy má pôsobenie politickej strany vo vládnej koalícii, resp. k opozícii.
- Bol predstavený matematický model pre vývoj slovosledu v češtine od 14. storočia po dnešok.
- Skúmali sme vlastnosti priestorov minimálnych usco a cusco zobrazení. Našli sa vzťahy medzi lokálnymi a globálnymi vlastnosťami; napr. kompaktnosť a lokálna kompaktnosť. Tiež sme sa zaoberali úplnostnými vlastnosťami ako Baireovosť a Čechovská úplnosť.
- Navrhli sme nový druh predpodmienenia pre jednostranný blokový Jacobiho algoritmus na výpočet SVD všeobecnej matice. Je založený na EVD Hermitovského factora H y polárnej dekompozície pôvodnej matice A, ktorá sa počíta pomocou (parciálnych) Halleyových iterácií. Tento prístup eliminuje výpočet Gramovej matice ATA, ktorý je numericky nespoľahlivý pre veľmi zle podmienené matice A. Iterovaná matica v Hallezových iteráciach má špeciálnu štruktúru, pre ktorú sme navrhli a porovnali 3 varianty pre výpočet jej QR faktorizácie.
- Bola urobená analýza chýb jednej metódy ortogonalizácie maticového blokového stĺpca v konečnej aritmetike, čo je základný krok v jednostrannom blokovom Jacobiho algoritme na výpočet SVD všeobecnej matice. Ortogonalizácia je založená na výpočte Gramovej matice a jej Choleskyho dekompozície, ktorá poskytne horný trojuholníkový faktor R. Následne je na faktor R aplikovaný jednostranný skalárny Jacobiho algoritmus na výpočet jeho SVD pomocou Givensových rotácií, ktoré sa akumulujú a nakoniec prenásobia maticový stĺpcový blok. Hlavným výsledkom je horná hranice pre odhad straty ortogonality vypočítaných ľavých singulárnych vektorov pre daný maticový stĺpcový blok.
- Je známe, že tzv. Beckova domnienka, t. j., že za podmienky konečnosti platí rovnosť klikového a chromatického čísla grafu nulových deliteľov, je pravdivá pre čiastočne

usporiadané množiny. V článku je uvedený jednoduchý priamy dôkaz tohto faktu. Taktiež sa rieši prípad, keď predpoklad konečnosti klikového čísla je vynechaný. Je ukázané, že táto domnienka vo všeobecnosti pre nekonečné čiastočne usporiadané množiny neplatí, pričom sú prezentované príklady takýchto čiastočne usporiadaných množín.

- Popísal sa súčasný spôsob overovania, či trojsúradnicový merací stroj (CMM) spĺňa dovolené chyby merania, ktoré sú deklarované výrobcom a navrhuje sa nový spôsob overovania, či (CMM) spĺňa tieto dovolené chyby merania. Nový, nami navrhovaný postup predpokladá, že máme k dispozícii hodnoty nameraných veličín dĺžok viacerých meraných objektov určených meracím zariadením (tzv. actual values) spolu s ich neistotami (na vodorovnej osi), ako aj príslušné nominálne hodnoty tých istých objektov (etalónov) s ich neistotami (na zvislej osi).
- Riešili sme situáciu keď máme k dispozícii sady n-tíc meraní s najlepšie odhadnutými hodnotami charakterizujúcimi merané objekty spolu s príslušnými neistotami. Tieto údaje predstavujú priame merania, ktoré sa považujú za realizácie náhodných premenných charakterizovaných spoločným rozdelením. Ich distribúcia môže byť úplne známa, čiastočne známa (zahŕňajúca určité neznáme parametre) alebo neznáma s danou kovariančnou maticou.
- Zaoberali sme sa jednou z najbežnejších metód fitovania, a síce fitovaním určitej funkcie získanými údajmi aplikáciou nelineárnych najmenších štvorcov. Táto numerická metóda bola implementovaná pravdepodobne vo všetkých softvéroch na spracovanie údajov a je rýchla a jednoduchá na použitie. Žiaľ, má svoje obmedzenia – funguje najmä pre veľmi jednoduché modely neistôt prítomných v systéme.
- Uvažovali sme štatistický lineárny kalibračný model, ktorý, je vlastne nelineárny regresný model priamych meraní s chybami v premenných (EIV – model). Odvodená kovariančná matica odhadov parametrov modelu poskytuje len aproximácie neistôt. Potrebujeme vyriešiť, či je aj linearizovaný nelineárny regresný model pre namerané údaje „vhodným“ kalibračným modelom. Navrhli sme štatistický test, ktorý nám pomáha odpovedať na vyššie uvedenú otázku.
- Ukázali sme, že Data Fitting (fitovanie údajov) je nepostrádateľným nástrojom modernej metrológie. Avšak najviac populárna metóda najmenších štvorcov LSM dosahuje svoj limit v nanometrii. Správny spôsob fitovania údajov F-D krivky (force-distance curve) je ortogonálna regresia so správnym spracovaním kovariančnej matice. Aplikovali sme nový algoritmus OEFPIL a výsledky porovnávame s inými metódami.
- Uvažovali sme model lineárnej porovnávacej kalibrácie, ktorý je z hľadiska matematickej štatistiky nelineárny regresný model priamych meraní. Merané vektory sú normálne rozdelené náhodné vektory, μ a ν sú vektory ich stredných hodnôt a sú spojené rovnicou $\nu = a1 + b\mu$. Kovariančná matica modelu je známa pozitívne definitná matica. Rovnicu $\nu = a1 + b\mu$ rozvinieme pomocou Taylorovho radu okolo hodnôt $\mu 0$, a0, b0 a zanedbáme členy druhého a vyšších rádov. Získavame lineárno-kvadratický regresný model priamych meraní s novými parametrami $\delta\mu$, δa, δb. Tento model označujeme ako slabo nelineárny model. Naším cieľom bolo určiť podmienky, za ktorých možno spracovať slabo nelineárny regresný kalibračný model ako konvenčný lineárny regresný model.
- Riešili sme kalibračnú úloha sformulovaná na pracovisku Český metrologický institut, Oblastní inspektorát Brno, Oddělení primární etalonáže hmotnosti. Majme dve závažia M1 a M2 a referenčné závažie MR. Nominálne hmotnosti každého závažia sú 1kg. Porovnaním každých dvoch závaží na komparátore v troch prostrediach so známymi hustotami $\rho 1$, $\rho 2$, $\rho 3$ určte hmotnosti dM1 (rozdiel medzi nominálnou hodnotou a meranou hodnotou M1), V1 (objem meraného závažia M1 pri teplote 20°C), dM2 (rozdiel medzi nominálnou hodnotou a meranou hodnotou M2), V2 (objem meraného závažia M2 pri teplote 20°C).

- Študovali konštrukčné metódy pre asociatívne funkcie, so špeciálnym zameraním na konštrukčné metódy založené na skladaní čiastočných funkcií, ktoré rozširujú ordinálny a z-ordinálny súčet. Zatiaľ čo ordinálny súčet a z-ordinálny súčet možno považovať za komutatívne konštrukčné metódy, keďže skladajú komutatívne funkcie z komutatívnych čiastočných funkcií, my sme zaviedli a študovali nekomutatívny ordinálny súčet, ktorý skladá nekomutatívne funkcie z komutatívnych čiastočných funkcií. Tiež sme ukázali príklad rozkladu semi-t-operátora a pseudo-n-uninormy pomocou nekomutatívneho ordinálneho súčtu, pričom tieto funkcie sa nedajú rozložiť pomocou komutatívnych metód ako sú ordinálny a z-ordinálny súčet.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

PROBASTAT 2024, KC SAV, Smolenice, 61 účastníkov, 20.05.-24.05.2024
PROBASTAT 2024 – ôsma medzinárodná konferencia o matematickej štatistike sa uskutočnila v Kongresovom centre SAV v Smoleniciach v dňoch 20. až 24. mája 2024. Konferencia bola pokračovaním série úspešných domácich a medzinárodných konferencií s cieľom stimulovať výmenu myšlienok a výskumu vo všetkých oblastiach matematickej štatistiky. PROBASTAT 2024 organizuje Ústav merania SAV, v. v. i. v spolupráci s Fakultou matematiky, fyziky a informatiky UK a Matematickým ústavom SAV.

38th International Summer Conference on Real Functions Theory, Stará Lesná, 20 účastníkov, 16.09.-20.09.2024
ISCRFT 2024 – tradičná letná škola z teórie reálnych funkcií.

IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 20 účastníkov, 13.12.-13.12.2024
Medzinárodný Workshop on Intuitionistic Fuzzy Sets bol založený v roku 2005 profesorom Beloslavom Riečanom za účelom prezentovania a výmeny výsledkov a medzinárodnej spolupráce vo výskume intuicionistických fuzzy množín a ich aplikácií medzi Slovenskou akadémiou vied, Bulharskou akadémiou vied a Univerzitou Mateja Bela. V súčasnosti sa workshopu zúčastňujú aj výskumní pracovníci z výskumných inštitúcií z iných krajín.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2025 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

IWIFS 2025 - Workshop on Intuitionistic Fuzzy Sets 2025/IWIFS 2025 - Workshop on Intuitionistic Fuzzy Sets 2025, Banská Bystrica, 12.12.-12.12.2025, (Katarína Čunderlíková, 0902213864, cunderlikova.lendelova@gmail.com)
Medzinárodný Workshop on Intuitionistic Fuzzy Sets bol založený v roku 2005 profesorom Beloslavom Riečanom za účelom prezentovania a výmeny výsledkov a medzinárodnej spolupráce vo výskume intuicionistických fuzzy množín a ich aplikácií medzi Slovenskou akadémiou vied, Bulharskou akadémiou vied a Univerzitou Mateja Bela. V súčasnosti sa workshopu zúčastňujú aj výskumní pracovníci z výskumných inštitúcií z iných krajín.

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Čunderlíková Katarína	0	0	1
Eliaš Peter	0	1	0
Holá Ľubica	0	0	1
Jenčová Anna	1	0	0
Jirásková Galina	1	0	0
Michalíková Alžbeta	0	2	1

Mlynárčik Peter	1	0	0
Novotný Branislav	0	1	0
Okša Gabriel	1	0	0
Olejár Viktor	0	1	0
Wimmer Gejza	1	0	0
Zemánková Andrea	1	0	0
Spolu	6	5	3

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Katarína Čunderlíková, PhD.

EUSFLAT - European Society for Fuzzy Logic and Technology (funkcia: člen)
IFSTART - Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics (funkcia: člen)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Európska akadémia vied a umení (funkcia: člen)
International Quantum Structure Association (funkcia: člen výboru)

Ing. Irena Jadlovská, PhD.

International Society of Difference Equations (funkcia: člen)

RNDr. Galina Jirásková, CSc.

IFIP - International Federation for Information Processing, WG 1.2 Desciptional Complexity (funkcia: člen)

doc. Mgr. Ján Mačutek, PhD.

IQLA (International Quantitative Linguistics Association) (funkcia: člen rady)

RNDr. Alžbeta Michalíková, PhD.

EUSFLAT - European Society for Fuzzy Logic and Technology (funkcia: člen)
IFSTART - Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics (funkcia: koordinátorka pracovnej skupiny za SR)

prof. RNDr. Roman Nedela, DrSc.

Európska matematická spoločnosť (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

ACM (Association for Computing Machinery) (funkcia: člen)
IACR International Association for Cryptology (funkcia: člen)
IEEE Institute of Electrical and Electronics Engineers (funkcia: člen)
SIAM Society for Industrial and Applied Mathematics (funkcia: člen)

doc. RNDr. Sylvia Pulmannová, DrSc.

American Mathematical Society (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

American Mathematical Society (funkcia: člen)

Mgr. Andrea Zemánková, DrSc.

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

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

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Nemoga Karol	NATO Science for Peace and Security	45

3.4. 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 A-5.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

Výsledok výskumu: Spolu s FEI STU sme sa zúčastňovali výskumu Problematiky ochrany informácií pre štátnu sféru SR. Výsledky boli aplikované pre potreby MO SR.
Kto využíva výsledok: MO SR
Rok využívania od: 2024
Rok využívania do: trvá
Projekt:
Rok vytvorenia výsledku: 2024
Autori výsledku: FEI STU, MÚ SAV, v.v.i.

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Vývoj, počítačová implementácia a nasadenie v praxi algoritmov na odhaľovanie únikov plynu z potrubí
Zadávateľ výskumného kontraktu: ttc, s.r.o., Nitra
Začiatok spolupráce: 2004
Ukončenie spolupráce: trvá
Finančný prínos pre organizáciu (€): 0

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	5	1	1	0	4	0	0	0	1	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	0	1	0	0	0	0	0	0	0	0	0
Spolu	6	1	2	0	4	0	0	0	1	0	0	0
Z toho zahraničných	3	0	1	0	1	0	0	0	0	0	0	0
Súhrn	7		2		4		0		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2024 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

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

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou

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

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
0	0	0	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	EGY/1, NGA/1, PAK/1

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

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

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Matematika	1113	Aplikovaná matematika	Fakulta matematiky, fyziky a informatiky UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika)	prof. RNDr. Michal Fečkan, DrSc. (Univerzita Komenského v Bratislave)	RNDr. Katarína Čunderlíková, PhD. (IIa)
prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika)	doc. RNDr. Ľubica Holá, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	RNDr. Alžbeta Michalíková, PhD. (IIa)
prof. RNDr. Michal Fečkan, DrSc. (matematická analýza)	Mgr. Anna Jenčová, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty)	Mgr. Anna Jenčová, DrSc. (Univerzita Palackého, Olomouc, Česká republika)	
prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika)	doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB)	
doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia)	doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR)	
doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika)		

Mgr. Anna Jenčová, DrSc. (aplikovaná matematika)		
doc. Mgr. Ján Mačutek, PhD. (odbor v zahraničí)		
RNDr. Alžbeta Michalíková, PhD. (informatika)		
prof. RNDr. Roman Nedela, DrSc. (aplikovaná matematika)		
prof. RNDr. Roman Nedela, DrSc. (informatika)		
doc. RNDr. Karol Nemoga, CSc. (geometria a topológia)		
doc. RNDr. Karol Nemoga, CSc. (aplikovaná informatika)		
doc. RNDr. Miroslav Repický, CSc. (informatika)		
doc. RNDr. Oto Strauch, DrSc. (aplikovaná matematika)		
prof. RNDr. Gejza Wimmer, DrSc. (metrológia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	1	5	0
Celkový počet hodín v r. 2024	326	78	499	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

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

5.9. Iné dôležité informácie k pedagogickej činnosti

Ročný (od septembra 2023 do septembra 2024) študijný pobyt doktoranda V. Olejára na Departamento de Ciência de Computadores - Faculdade de Ciências da Universidade do Porto v Portugalsku cez program Erasmus+ (vedúci pracovníci: Nelma Moreira a Rogério Reis).

Andrea Zemánková pôsobila ako školiteľ špecialista pre interného doktoranda Mgr. J. Kalafuta na Stavebnej fakulte STU v Bratislave v odbore aplikovaná matematika.

Od júna 2024 sa Michal Hospodár stáva novým školiteľom V. Olejára (predtým bola školiteľkou Galina Jirásková).

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Drevárska fakulta TUZVO
Oblasť spolupráce: veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2019
Zhodnotenie: Spolupráca- Matematický ústav SAV (Bratislava, Košice)- Ústav materiálov SAV (Bratislava, Žiar nad Hronom)- Umenovedný ústav SAV (Bratislava)na VEGA grantoch týkajúcich sa drevených organov.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2000
Zhodnotenie: spolupráca pre MO SR, NATO a NBÚ SR, spolupráca vo výskume a výchove mladých vedeckých pracovníkov, spoločný vedecký projekt APVV, výučba a príprava materiálov.

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 1990
Zhodnotenie: spoločný vedecký grant APVV, výchova mladých vedeckých pracovníkov, členstvo v štátnicových a odborových komisiách.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UMB
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2001
Zhodnotenie: členstvo vo VR, výuka, výchova mladých vedeckých pracovníkov, spoločný projekt APVV, VEGA, ESF na podporu vzdelávania v SR, príprava spoločných publikácií, vedenie diplomových prác, vedenie ŠVOČ prác.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UMB
Oblasť spolupráce: vedecko-výskumná činnosť, vzdelávanie
Sídlo spoločného pracoviska (ak je vytvorené): Ústavu vied o Zemi SAV (Ďumbierska 1, Banská Bystrica)
Začiatok spolupráce: 2019
Zhodnotenie: V roku 2019 sme zmluvne zriadili spoločné pracovisko 1) Fakulty prírodných vied UMB, Banská Bystrica, 2) Ústavu vied o Zemi SAV, 3) Matematického ústavu SAV, 4) Ústavu informatiky SAV a 5) Centra biológie rastlín a biodiverzity SAV, Botanický ústav SAV.

Názov univerzity/vysokej školy a fakulty: Pedagogická fakulta KU
Oblasť spolupráce: výuka
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2020
Zhodnotenie: Výučba na Fakulte manažmentu (Poprad).

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 1999
Zhodnotenie: spoločné vedecké granty, výučba, príprava spoločných publikácií, členstvo v komisiách, semináre, vedenie bakalárskych a diplomových prác, vypracovávanie oponentských posudkov pre diplomové a bakalárske práce, vedenie diplomovej práce.

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta STU
Oblasť spolupráce: numerická analýza, algoritmy
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2011
Zhodnotenie: pedagogická činnosť

Názov univerzity/vysokej školy a fakulty: Strojnícka fakulta STU
Oblasť spolupráce: veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2020
Zhodnotenie: Spolupráca na riešení APVV projektu s Ústavom automatizácie, merania a aplikovanej informatiky.

Názov univerzity/vysokej školy a fakulty: Technická univerzita v Košiciach
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2002
Zhodnotenie: výučba, spolupráca vo vedeckých grantoch, seminár.

Názov univerzity/vysokej školy a fakulty: Trnavská univerzita v Trnave
Oblasť spolupráce: pedagogika, veda a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2002
Zhodnotenie: výučba, spolupráca vo vedeckých projektoch.

Názov univerzity/vysokej školy a fakulty: Trnavská univerzita v Trnave
Oblasť spolupráce: veda a výskum, projektová spolupráca, project InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF, príprava a práca na ďalšom projekte DigiMent
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2019
Zhodnotenie: Spolupráca- Matematický ústav SAV (Bratislava, Košice) , project InoCHF bol úspešne ukončený, ale)dalšie riešenie problematiky ešte pokračuje. Od 1. 4. 2024 prebiehali aj práce na podanom projekte Digiment, ktorý bol schválený neskôr.

Názov univerzity/vysokej školy a fakulty: Ústav matematiky a statistiky, Přírodovědecká fakulta, Masarykova univerzita, Brno, ČR
Oblasť spolupráce: pedagogika a výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2002
Zhodnotenie: Prednášky a výchova študentov.

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Ústav informatiky SAV, v. v. i.
Oblasť spolupráce: projekt APVV
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2022
Zhodnotenie: APVV 19-0220-Ontologická reprezentácia pre bezpečnosť informačných systémov

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

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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Mobilné, dátové, odberové a analytické centrum pre riadenie v krízových situáciách
Agentúra:
číslo projektu: 257/2021
Spolupracujúce inštitúcie: Akadémia PZ v Bratislave (Katedra európskeho integrovaného riadenia hraníc)
Koordinátor projektu: Michaela Koščová
Začiatok spolupráce: 2021
Zhodnotenie: Navrhujú sa niektoré riešenia integrujúce hardvérové a softvérové prostriedky na zber a analýzu dát zo senzorických subsystémov. Zozbierané výstupy meraní sú podrobené lokálnej alebo vzdialenej expertnej analýze. Účelom tejto analýzy je vyhodnotiť stupeň bezpečnosti/rizika subjektu pre povolenie alebo odmietnutie vstupu. Očakáva sa výrazné zvýšenie ochrany pri vstupe na územie SR. Získané výsledky vykazujú vhodné predpoklady pre celkové zlepšenie bezpečnosti, optimalizácie a efektívnosti procesov riadenia schengenských hraníc.

Názov projektu: Problémy ochrany informácií pre štátnu sféru SR
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: MO SR, FEI STU
Koordinátor projektu:
Začiatok spolupráce: 2013
Zhodnotenie: Rozpracované boli metódy ochrany informácií. Finančný prínos pre organizáciu 0 EUR.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	17	tlač	0	TV	1
rozhlas	0	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	1				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
PROBASTAT 2024	medzinárodná	KC SAV, Smolenice	20.5.-24.5.2024	61
IWIFS-2024 - Workshop on Intuitionistic Fuzzy Sets	medzinárodná	Banská Bystrica	13.12.-13.12.2024	20

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

RNDr. Katarína Čunderlíková, PhD.

Frontiers in Network Physiology / Generalized Nets and Fuzzy Sets (funkcia: Associate Editor)
Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Mathematica (funkcia: člen redakčnej rady)
Indian Journal of Mathematics (funkcia: člen)
J. Algebraic Hyperstructures and Logical Algebras (funkcia: člen)
Mathematica Slovaca (funkcia: výkonný editor)
Military and Science (funkcia: člen redakčnej rady)
Obzory matematiky, fyziky a informatiky (funkcia: člen redakčnej rady)
Soft Computing (funkcia: editor)
Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)
Transactions on Fuzzy Sets and Systems (funkcia: člen redakčnej rady)

prof. RNDr. Michal Fečkan, DrSc.

Differential Equations & Applications (funkcia: editor)
Discontinuity, Nonlinearity and Complexity (funkcia: editor)
Electronic Journal of Qualititive Theory of Differential Equations (funkcia: editor)
Journal of Applied Mathematics, Statistics and Informatics (JAMSI) (funkcia: editor)
Mathematica Slovaca (funkcia: editor)
Mathematical Notes, Miskolc University (funkcia: editor)

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)

Ing. Irena Jadlovská, PhD.

Applied Mathematics in Science and Engineering (funkcia: editor)
Journal of Mathematics and Computer Science (funkcia: editor)
Mathematica Slovaca (funkcia: editor)

doc. Mgr. Tibor Macko, PhD.

Mathematica Slovaca (funkcia: editor)

doc. Mgr. Ján Mačutek, PhD.

Glottometrics (funkcia: hlavný redaktor)
Glottotheory (funkcia: člen redakčnej rady)
Journal of Language Modelling (funkcia: člen redakčnej rady)
Journal of Quantitative Linguistics (funkcia: člen redakčnej rady)

RNDr. Alžbeta Michalíková, PhD.

Journal Frontiers in Network Physiology (funkcia: Associate Editor for Generalized Nets and Fuzzy Sets)
Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board member)

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)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. PaedDr. Martin Papčo, PhD.

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

RNDr. Jozef Pócs, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. RNDr. Sylvia Pulmannová, DrSc.

International Journal of Theoretical Physics (funkcia: člen)
Mathematica Slovaca (funkcia: vedúci redaktor)
Tatra Mountains Mathematical Publications (funkcia: člen)

doc. RNDr. Oto Strauch, DrSc.

Uniform Distribution Theory (funkcia: výkonný redaktor)

prof. RNDr. Gejza Wimmer, DrSc.

Mathematica Slovaca (funkcia: člen)
Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

Tatra Mountains Mathematical Publications (funkcia: výkonný redaktor)

7.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (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)

prof. RNDr. Michal Fečkan, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

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

RNDr. Emília Halušková, CSc.

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

Ing. Michal Hospodár, PhD.

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)

Mgr. Michaela Koščová, PhD.

Slovenská štatistická a demografická spoločnosť (funkcia: člen)

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. Viktor Olejár

QSlovakia (funkcia: Koordinátor)

Mgr. Eva Plávalová, PhD.

Slovenská astronomická spoločnosť pri Slovenskej akadémii vied (funkcia: predseda sekcie terminológie)

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

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

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

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
doc. RNDr. Karol Nemoga, CSc.	Zbor expertov – ISEG, NATO	člen

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

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

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

Meno pracovníka	Názov orgánu	Funkcia

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

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

doc. RNDr. Karol Nemoga, CSc.

- člen

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

prof. RNDr. Anatolij Dvurečenskij, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)
- Komisia SAV pre ekonomické otázky (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Rada riaditeľov (člen výboru RR SAV, podpredseda 1. 1. - 30. 6. 2023,
  predseda 1. 7. 2023 - 31. 5. 2024)

9.4. Členstvo v orgánoch VEGA

Mgr. Martin Bečka, PhD.

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

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, DrSc.

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

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Matematický ústav SAV, v. v. i. ako príjemca grantov rámcových projektov sa podpisom grantovej dohody zaväzuje k dodržiavaniu článku 32, ktorý stanovuje pravidlá zamestnávania vedeckých pracovníkov a zaisťovanie kvalitných pracovných podmienok. Článok 32 grantovej dohody zaväzuje príjemcov k dodržiavaniu zásad Európskej charty pre výskumných pracovníkov a Kódexu pravidiel pre ich zamestnávanie (ďalej Charty a Kódexu). Kladieme dôraz na pracovné podmienky, transparentný nábor na základe kvalifikácie a skúseností a vytváranie priaznivého prostredia pre kariérny rozvoj.

Po analýze našej práce sme realisticky vyhodnotili, aké zmeny môžeme uskutočniť a na základe tejto analýzy sme vypracovali akčný plán. Hodnotenie akčného plánu je obsiahnuté v kapitole 14.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Rodová rovnosť je jednou z kľúčových hodnôt Európskej únie. Zásada rovnakého zaobchádzania je právne zakotvená vo vnútroštátnej legislatíve Slovenskej republiky. Základným právnym predpisom v tejto oblasti je Ústava Slovenskej republiky. Slovenská republika ako členská krajina EÚ je zároveň povinná prevziať právne záväzky, ako sú napríklad antidiskriminačné smernice. Zákon č. 365/2004 Z. z. o rovnakom zaobchádzaní v niektorých oblastiach a o ochrane pred diskrimináciou a o zmene a doplnení niektorých zákonov (antidiskriminačný zákon) je transpozíciou smerníc do vnútroštátnej legislatívy. Zákon za súčasť odstraňovania diskriminácie okrem jej zákazu určuje aj dôležitú povinnosť prijať také preventívne opatrenia, ktoré budú diskriminácii predchádzať. Princípy rodovej rovnosti a nediskriminácie sú zakotvené aj v ďalších národných predpisoch, napr. v Zákonníku práce a rovnako v medzinárodných dohovoroch a strategických dokumentoch.

Plán rodovej rovnosti a stratégia vo vyrovnávaní šancí boli prijaté na celoakademickej úrovni.

Primárnym hľadiskom pri prijímaní vedeckých pracovníkov na Matematický ústave SAV, v. v. i. a pri určovaní ich zaradenia je ich vedecká výkonnosť. Podľa Tabuľky 1a a Tabuľky 1b je zatiaľ prevaha mužov nad ženami v počte vedeckých pracovníkov a zodpovedajúca prevaha v kvalifikačných stupňoch. Na Matematickom ústave v roku 2024 boli z 9 pracovníkov s hodnosťou DrSc. 4 pracovníčky z toho jedna získala vedeckú hodnosť DrSc. v r. 2022 po úspešnej obhajobe na sklonku roku 2021. Do určitej miery sme limitovaní aj skladbou absolventov škôl nášho zamerania, kde majú prevahu muži. Budeme vytvárať podmienky pre dobrú prácu žien s uvážením ich ďalších povinností v rodine. Na Matematickom ústave sme otvorení každému, kto chce a môže prispieť k rozvoju matematiky v rámci našich možností. Jediné hľadisko bola a vždy bude kvalita uchádzačky alebo uchádzača.

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	11	7	4	2	1	1
2. Projekty APVV	2	1	1	7	6	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	3	2	1	0	0	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	0	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	0	0	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	0	0	0

5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Neprebieha žiadny výskum v tejto oblasti.

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Pracovisko každý rok realizuje audit pracovných a hygienických podmienok všetkých zamestnancov. Na základe správy z auditu sa každoročne zlepšujú podmienky pre pracovníkov podľa záverov v správe z auditu.

Na pracovisku pôsobí odborová organizácia. Jej pôsobením a kolektívnym vyjednávaním sa každoročne prijíma kolektívna zmluva, na základe ktorej sa zlepšujú podmienky pracovníkov (dĺžka dovolenky, príspevok na stravu, a pod.).

Uveďte stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.
Členovia SR:

- doc. RNDr. Karol Nemoga, CSc. (predseda)
- prof. RNDr. Anatolij Dvurečenskij, DrSc. (podpredseda)
- doc. Ing. Gabriel Okša, CSc.
- RNDr. Jozef Pócs, PhD.
- RNDr. Tibor Žáčik, CSc.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.

Členovia VR:

- Mgr. Anna Jenčová, PhD. (predsedníčka)
- doc. RNDr. Ľubica Holá, DrSc.
- Mgr. Marek Hyčko, PhD. (podpredseda)
- prof. RNDr. Roman Nedela, DrSc.
- doc. RNDr. Sylvia Pulmannová, DrSc.

externí pracovníci VR:

- doc. RNDr. Viktor Witkovský, CSc.
- prof. RNDr. Pavol Zlatoš, CSc.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.

Členovia DR:

- Ing. Ivana Budínska, PhD. (predsedníčka)
- Ing. Romana Jurkiewiczová
- prof. RNDr. Martin Kalina, CSc.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uveďte stručné, základné informácie k problematike.

V období roku 2024 nenastali žiadne organizačné zmeny.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Uveďte stručné, základné informácie k problematike.

V období roku 2024 nenastali žiadne zmeny.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	27 257
	audiovizuálne dokumenty	27 151
	elektronické dokumenty (vrátane digitálnych)	-
	mikroformy	-
	iné špeciálne dokumenty - dizertácie, výskumné správy	2
	Rukopisy, vzácne tlače	-
Počet titulov dochádzajúcich periodík		77
z toho zahraničné periodiká		67
Ročný prírastok knižničných jednotiek		104
v tom	kúpou	14
	darom	2
	výmenou	88
	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“.*

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		13
v tom z r. 1	prezenčné výpožičky	4
	absenčné výpožičky	9
v tom z r. 1	odborná literatúra pre dospelých	8
	výpožičky periodík	5
MVS iným knižniciam		-
MVS z iných knižníc		-
MMVS iným knižniciam		-
MMVS z iných knižníc		-
Počet vypracovaných bibliografií		-
Počet vypracovaných rešerší		32

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	35
Návštevníci knižnice spolu (bez návštevníkov podujatí)	18

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	1 654,86

12.5. Iné informácie o knižničnej činnosti

V roku 2024 bol stále voľný prístup do informačnej databázy zbMATH Open (pôvodne Zentralblatt MATH) (Európska Mathematical Society, Heidelberg Academy of Sciences and Humanities a FIZ Karlsruhe GmbH), čo je veľmi významný zdroj sekudárnych informácií.

Dôležitý bol aj prístup do primárnych dokumentov veľkých vydavateľstiev ako je Springer, Wiley, DeGruyter, Science Direct (Elsevier), a podobne. Ale aj databázam ako je napríklad JSTOR.

13. Nadácie a fondy pri organizácii

Na pracovisku v súčasnosti nepôsobia žiadne fondy alebo nadácie.

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Vzhľadom na to, že oproti roku neprebehla ďalšia akreditácia zostávajú závery a odporúčania akreditačného panelu rovnaké ako v roku 2023. Nebudeme opakovať text z minuloročnej správy, ale uvedieme iba prípadné zmeny v jednotlivých oblastiach.

1. Nedošlo ku zmene zamerania jednotlivých skupín pracovníkov. Na ústave je niekoľko skupín, v ktorých pracujú kľúčoví vedci slovenskej matematiky a na nich sú naviazané semináre a ďalší pracovníci hlavne na vysokých školách.
2. Panel vymenoval 7 oblastí, v ktorých vidí možný ďalší rozvoj. Tieto oblasti koincidujú s naším rozdelením, iba niektoré zamerania boli spojené. Zvýšenie počtu pracovníkov sme zatiaľ realizovali oproti akreditácii za dva roky o 7 percent. Pri nemeniacich sa limitoch organizácií je jediná cesta ku zvýšeniu počtu pracovníkov cez realizáciu domácich a zahraničných projektov. V tejto oblasti vyvíjame úsilie a získali sme celkove 4 projekty z Plánu obnovy.
3. V publikáciách sme v roku 2024 publikovali 81,7 % prác v časopisoch Q1 a Q2 oproti 76,8 % v roku 2023. Je to skoro rovnaké číslo, ale je to veľmi dobrý výsledok a pozitívny trend.
4. Publikačné ohlasy boli v roku 2024 (počítajú sa za rok 2023) o 11 % vyššie ako v roku 2023. Publikačné ohlasy považujeme za dôležité a v tejto oblasti dosahujeme dobré výsledky s pozitívnym trendom.
5. Ďalej sme spolupracovali s vysokými školami. Táto spolupráca je jedna z najrozsiahlejších v SAV a je tradične zameraná na dlhoročnú spolupôsobenie s konkrétnymi fakultami.
6. Dosahujeme významné príjmy mimorozpočtových (SAV) prostriedkov. V roku 2024 to bolo okrem realizovaných 111 tisíc EUR v APVV a 54 tisíc EUR z Plánu obnovy aj ďalších 216 tisíc EUR zo štrukturálnych fondov.
7. Vytvorili sme novú vizualizáciu na WEBe pracoviska. Zatiaľ bežia oba modely súbežne.
8. Pokračovali sme vo vydávaní troch časopisov .Matematika Slovaca je veľký všeobecný matematický časopis. Tatra Mountains Mathematica Publications publikuje monotematické zväzky a posilňuje spoluprácu s vysokými školami. Oba majú zásadný význam. Tretí časopis Uniform Distribution Theory je úzko zameraný špecializovaný časopis špičkovej úrovne, ktorý pravdepodobne odovzdáme kolegom vo Veľkej Británii. Spolupodieľanie sa na celosvetovej matematickej spolupráci považuje za dôležité.
9. Omladenie ústavu je jedna úloh, kde sme zatiaľ v roku 2024 nedosiahli významný pokrok. Zlepšenie stavu očakávame v roku 2025, keď budeme realizovať pobyty postdokov financované z plánu obnovy. Čiastočným úspechom je získanie troch projektov schémy R1-R4.
10. V roku 2024 sme realizovali jednu návštevu člena nášho poradného panelu na ústave.
11. Zvýšenie počtu pracovníkov sa snažíme realizovať získavaním externých projektov. To nám umožňuje zvýšiť rozpočet na jedného pracovníka.
12. V roku 2024 sa nám podarilo zvýšiť počet PhD. Študentov zvýšiť zo 6 na 7 prijatím zahraničného študenta z Pakistanu. Ďalší doktorand z Pakistanu nastúpil začiatkom roku 2025.

Matematický ústav SAV, v. v. i. prijal aj vlastné opatrenia na zlepšenie výsledkov akreditácii 2026/2027.

V tomto smere boli lepšie formulované závery predchádzajúcej akreditácie preformulované tavené do akčného plánu, ktorý sa stále snažíme napĺňať.

Z hľadiska financovania ústavu bolo dôležitým prvkom prijatie výkonnostnej zmluvy z P SAV. Priebežné hodnotenie plnenia ukazovateľov predpokladáme v 1. polroku 2025.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Akčný plán bol zameraný na všetky oblasti, ktoré postihoval Akčný plán SAV. Hlavné zameranie ústavu vo všetkých smeroch jeho činnosti aj v r. 2024 boli.

1. Doktorandské štúdium
2. Spolupráca s VŠ
3. Diverzita pracovníkov
4. Projektová aktivita, medzinárodné projekty
5. Medziakademická spolupráca
6. Strategické zameranie
7. Multidisciplinárny výskum
8. Strategické formovanie ústavu
9. Pomenovanie ústavu
10. Publikačné prostredie
11. Publikovanie vlastných výsledkov
12. Vydávanie časopisov
13. Problematika duševného vlastníctva
14. Rozpočet pracoviska
15. Manažment a infraštruktúra pracoviska

Akčný plán je každoročne prehodnocovaný. Plnenie jednotlivých položiek je uvedené už v časti 14.1.

14.3. Aktualizácia Akčného plánu organizácie v roku 2024

V roku 2024 nedošlo ku zmene jednotlivých položiek. Významným zásahom v smerovaní ku konkrétnym výsledkom bolo uzatvorenie Výkonnostnej zmluvy so Slovenskou akadémiou vied. Konkrétne ukazovatele, ktoré musíme dosiahnuť za roky 2024 až 2026 sú nasledujúce.

1. Zvýšenie počtu výstupov o

- v 1. decile o aspoň 10 percent, t. j. za roky 2024 až 2026 celkove 20 článkov alebo
- v Nordic List Level 2 časopisoch o aspoň 10 percent, t. j. celkove aspoň 20 článkov alebo
- v zozname významných časopisov Matematického ústavu SAV, v. v. i. aspoň o 10 percent, t. j. aspoň 58 článkov za obdobie 2024 až 2026 .

2. Podanie medzinárodného grantu: Za splnenie cieľa sa bude považovať

- podanie grantu ERC, ktorý bude vyhodnotený, alebo
- podanie grantu ESA, ktorý bude vyhodnotený, alebo
- podanie grantu NATO MYP, ktorý bude vyhodnotený, alebo
- podanie grantu NATO ARW alebo NATO ASI, ktorý bude vyhodnotený alebo podanie podporného grantu (CSA) Horizon Europe, ktorý bude vyhodnotený alebo
- získanie alebo podanie, ktoré bude vyhodnotené významného medzinárodného grantu iného typu.

3. Zvýšenie počtu doktorandov. Chceme dosiahnuť zlepšenie o 10 percent, to znamená priemer 1,925 študenta po úspešnom vykonaní dizertačnej skúšky za rok a teda celkove za tri roky 6 študentov spolu (za predpokladu rovnakého počtu školiteľov). Určujúci je ukazovateľ.

4. Zvýšenie počtu postdoktorandov. Chceme dosiahnuť zlepšenie stavu o 10 percent. To znamená zvýšenie podielu na rok na 0,076 a celkové priemerné číslo asi 2,53 (FTE) postdoktoranda na rok (za predpokladu rovnakého priemerného počtu vedeckých pracovníkov). Rozhodujúci je ukazovateľ.

5. Popularizačné výstupy. Chceme dosiahnuť realizovaním aspoň jedného výstupu v celoštátnych médiách alebo rozsiahlejšieho projektu. To znamená aspoň tri takéto záznamy/výstupy za sledované obdobie rokov 2024 až 2026.

6. Matematický ústav SAV, v. v. i. zaktualizuje svoju stratégiu a akčný plán do 30. júna 2025.

Podklady:

- Správa v. v. i. hodnotiaca implementáciu stratégie a akčného plánu v. v. i. v rokoch 2024–2026
- Správa v. v. i. o nakladaní s ľudskými zdrojmi na v. v. i. v období 2024–2026.
- Výročné správy v. v. i. za roky 2024, 2025, príp. 2026, stanoviská Ekonomicko-technického odboru Úradu SAV a vedenia príslušného oddelenia vied SAV a pod.
- Správy o (príp. zápisnice z) činnosti vedeckej a správnej rady v. v .i. za roky 2024, 2025, príp. 2026, správa o činnosti medzinárodného poradného panelu v. v. i. za obdobie 2024–2026, správy o činnosti dozornej rady v. v. i. za roky 2024, 2025, príp. 2026 (vypracované dozornou radou v. v. i.) a pod.

15. Iné významné činnosti organizácie

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 .

Matematický ústav SAV, v. v. i. sa venuje aktívne aj publikovaniu vedeckých matematických časopisov. Najväčšiu tradíciu má Mathematica Slovaca, časopis vydávaný už od roku 1951; je to medzinárodný (medzinárodná redakčná rada má 39 členov, z toho 18 zahraničných) a recenzovaný (karentovaný AMS) časopis, indexovaný v databáze SCI a SCOPUS. V roku 2008 prevzalo distribúciu časopisu vydavateľstvo Springer-Verlag (2007 - 2014) v spolupráci so spoločnosťou Versita, od roku 2015 spoločnosť De Gruyter, ktorá prevzala/zakúpila spoločnosť Versita. Po obsahovej stránke tento časopis uverejňuje práce zo všetkých oblastí základného matematického výskumu.

V r. 2007 začal byť časopis Mathematica Slovaca indexovaný v databáze SCI (Expanded), pričom do tejto databázy boli spätne pridané aj vydania od č. 1 za rok 2007. V súčasnosti patrí do prvého kvartilu Q1. Podobne začal byť od roku 2008 tento časopis indexovaný v databáze SCOPUS. Časopis prešiel od 600 strán formátu B5 a 48 článkov (2007) ku dnešným 1500 stranám formátu A4 s asi 130 článkami.

Vyše 75 % prác je zamietnutých (z viac ako 750 zaslaných). V r. 2010 Mathematica Slovaca získala IF= 0,308 a v r. 2011 sa IF zvýšil na 0,316. Súčasný impakt faktor je IF(2023)=1.6, a je v prvom kvartile v sekcii matematika. V databáze Scopus má časopis SJR(2023)=0,404 (Scimago Journal Ranking) a je v 2. kvartile.

Aj keď distribúcia časopisu prostredníctvom vydavateľstva Springer-Verlag spôsobila redukciu výmeny časopisu (vydavateľstvo Springer-Verlag bol výhradný distribútor v období 2008-2014), dosiahli sme významne väčšie rozšírenie časopisu medzi čitateľov. Rovnako, pre našich pracovníkov je najvýznamnejší prístup ku informáciám v elektronickej forme. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1993. Adresa je https://maslo.mat.savba.sk. Adresa časopisu na stránkach spoločnosti Springer je
http://www.springer.com/journal/12175.
Adresa časopisu na stránkach spoločnosti Versita bola
http://www.versita.com/science/mathematics/maslo (odkaz už nefunguje).

Od roku 2016 je distribútorom časopisu vydavateľstvo De Gruyter a adresa časopisu je
https://www.degruyter.com/journal/key/ms/html,
odkiaľ je prístup aj na predchádzajúce čísla (2007-2015). Elektronický prístup k starším ročníkom 1 (1957) - 57 (2007) je na českej elektronickej knižnici:
https://dml.cz/handle/10338.dmlcz/134237.

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

Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. V r. 2024 vyšiel 86. zväzok a do 15. Februára budú tlačou publikované ešte dva zväzky. Články z týchto zväzkov sú už dostupné online v časti AHEAD OF PRINT. 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 1.0 a je v 3. kvartile.

Ústav získava (predajom, resp. výmenou za tento časopis) časť svojich informačných zdrojov. Adresa je https://tatra.mat.savba.sk. Časopis je od roku 2009 distribuovaný ako Open Access aj spoločnosťou Sciendo (a De Gruyter company) s WEB stránkou:
https://sciendo.com/journal/TMMP.

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2024 vyšiel 18. ročník. Adresa je http://udt.mat.savba.sk a http://www.boku.ac.at/MATH/udt. Časopis vydávame spolu s BOKU University vo Viedni a University of Liverpool. Je to vysoko špecializovaný vedný časopis, ktorý uverejňuje prevažne príspevky zahraničných autorov (95 percent). V roku 2016 sa dohodla jeho distribúciu aj cez spoločnosť Sciendo (a De Gruyter company) na adrese
https://sciendo.com/journal/UDT.

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.

Porovnanie financovania ústavu a iných aktivít oproti predošlým rokom.

V priebehu roku 2024 sme pokračovali v riešení projektu 313011BWH2 „*InoCHF – výskum a vývoj v oblasti inovatívnych technológií v manažmente pacientov s CHF*“, ktorý bol v roku 2023 úspešne ukončený, v rámci udržateľnosti projektu. Taktiež v roku 2024 prebiehala ešte refundácia výdavkov tohto projektu.

V APVV sme v roku 2023 riešili zhruba rovnaký počet projektov ako v roku 2023, s nárastom 2+7 oproti 2+6 v roku 2023. Príjmy pre MÚ SAV boli oproti roku 2023 o 23,5% vyššie (92 799 oproti 75 164 EUR v roku 2023). Celkový príjem APVV bol až 111 550 EUR, ale 18 751 EUR bol transfer na spoluriešiteľov. Podali sme aj niekoľko ďalších žiadostí o granty APVV, ktoré by sa mali realizovať od roku 2025.

V projektoch VEGA sme po náraste v roku 2023, v ich počte a zvýšniu príjmov o 22% oproti roku 2022, zaznamenali pokles o zhruba 15 %, v absolútnych číslach 11 114EUR. Prejavuje sa tu stále dynamika v počte pracovníkov, ktorí riešia projekty VEGA, pokles nie je z hľadiska celkových výdavkov významný.

Z 11 podaných žiadostí o granty R1 - R4 Plánu obnovy sme boli úspešní v troch projektoch, ktoré sa začali financovať už v roku 2024.

Ďalej bol schválený projekt Plánu obnovy 09I05-03-V02-00084, „*Digital solutions in support of mental health in patients with CHF*“, kde je Matematický ústav SAV hlavný riešiteľ s financovaním

od 1. 4. 2024 (v spolupráci s Trnavskou univerzitou a spoločnosťou MOVING MEDICAL MEDIA s.r.o.) Projekt bude pokračovať v rokoch 2025, 2026 a rok 2024 bude spätne prefinancovaný.

Stav počtu pracovníkov v roku 2024 bol nepatrne vyšší ako v roku 2023 (47,18 oproti 46,89) Limit počtu pracovníkov pre ústav bol stále 46. Priemerný vek vedeckých pracovníkov/riešiteľov projektov sa zvýšil o 0,1 roku, čo je stagnácia, ale stále to nie je omladenie, ktoré je pre ústav dôležité.

Matematický ústav SAV, v. v. i. má stále prístup do databázy Zentralblatt MATH, Nemecko, ktorý je teraz všeobecne bezplatný. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2024 nerealizovali.

Popularizačná aktivita ústavu sa v roku 2024 zvýšila. Realizovali sme 16 prednášok resp. besied a mali sme aj TV vystúpenie na celoštátnej úrovni. Zúčastnili sme sa akcie Deň otvorených dverí, v rámci Týždňa otvorených dverí. Zvýšenie dôrazu na popularizáciu boli dané tým, že je to parameter hodnotenia vo výkonnostných zmluvách.

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

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

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

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

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

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

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

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

MÚ SAV je vedecká inštitúcia SR prispievajúca k rozvoju základného výskumu v matematike (najmä

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

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

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

Organizačná štruktúra MÚ SAV:

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

Orgány MÚ SAV:

- Vedecká rada MÚ SAV
- rada riaditeľa MÚ SAV.

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

Financovanie MÚ SAV:

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

Ďalšími zdrojmi financovania pracoviska sú

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

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

MÚ SAV je povinné zverejňovať aj

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

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

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

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

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

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

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

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

(3) Informácia môže byť sprístupnená
a. ústne,
b. nahliadnutím do spisu s možnosťou vyhotoviť si odpis alebo výpis v sídle ústavu,
c. odkopírovaním informácií na technický nosič dát,
d. sprístupnením kópií predlôh s požadovanými informáciami,
e. telefonicky,
f. faxom,
g. poštou,
h. e-mailom,
i. odkazom na už zverejnenú informáciu.

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

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

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

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

- vyhľadávanie a zber väčšieho počtu oddelených alebo odlišných informácií požadovaných na sprístupnenie v jednej žiadosti,
- vyhľadávanie a zber väčšieho počtu oddelených alebo odlišných informácií požadovaných na sprístupnenie žiadosti,
- preukázateľné technické problémy spojené s vyhľadávaním a sprístupňovaním informácie, o ktorých možno predpokladať, že ich možno odstrániť v rámci predĺženej lehoty.

(7) Žiadosť o sprístupnenie informácie možno podať :
- ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava
- telefonicky na telefónnom čísle : 02 / 5751 0414
- faxom na faxové spojenie : 02 / 5249 7316
- e-mailom na adresu : mathinst@mat.savba.sk

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

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

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

(3) Evidencia obsahuje predovšetkým :
- dátum podania žiadosti,
- obsah žiadosti, formu podania (napr. písomne, faxom, elektronickou poštou) a navrhovaný spôsob sprístupnenia informácie,
- výsledok, formu a dátum vybavenia žiadosti (napr. poskytnutie informácie kompletnej alebo čiastočnej, forma poskytnutia informácie, výzva na doplnenie, rozhodnutie o neposkytnutí, neposkytnutie bez vydania rozhodnutia, odloženie veci, postúpenie inému orgánu),
- opravný prostriedok (dátum podania a výsledok vybavenia).

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

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

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

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

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

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

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

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

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

(12) Rozhodnutie o odmietnutí poskytnúť informáciu sa vydáva z dôvodu:
a. ustanoveného obmedzenia prístupu k informáciám (§ 8 až 11 zákona),
b. keď nie je známa taká povinná osoba, ktorá disponuje požadovanými informáciami (§ 15 ods. 1 zákona).

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

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

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 /

Uveďte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku

Dynamické prehodnocovanie limitov pracovníkov na úrovni oddelení vied, ako aj celej SAV považujeme za dôležité.

Vyhodnocujeme skúsenosti z prechodu na v. v. i. Bolo by potrebné urýchlene nájsť cestu, ako vyraďovať nepoužiteľné predmety z majetku organizácie. Ďalej sa skomplikovalo účtovníctvo organizácie v závere roka. Rovnako legislatíva nazerá inak na výskumné organizácie RO/PO ako na VVI a spôsobuje to komplikácie takého typu, ako je napríklad pri transakčnej dani. Riešenie týchto problémov je na úrovni P SAV, resp. Úradu SAV.

Pri vykazovaní príjmov a výdavkov sa doteraz neuvádzajú prostriedky, ktoré boli v danom roku získané a ešte neboli použité. Tieto údaje by mohli byť v primeranej štruktúre zahrnuté do údajov výročných správ.

Stále vysoko hodnotíme trvajúci prístup ku vedeckým informáciám. Dôležité bude zabezpečiť rokovanie s vydavateľmi a distribútormi na celoštátnej úrovni, aby sme dosiahli prístupu „read and publish“, t. j. pre predplatení prístupu je zdarma alebo výrazne nižší poplatok za publikovanie open access našich príspevkov a vo väčšom rozsahu. Doteraz dávané počty sa veľmi rýchlo vyčerpajú. Rovnako bude treba rokovať aj o Open Access knihách a poplatkov za ne.

Navrhujeme, aby bola pripravená šablóna pre *Návštevný poriadok* popularizačných podujatí, ktoré sú organizované pracoviskami SAV pre verejnosť a študentov.

Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Vedecká rada Matematického ústavu SAV, v. v. i. prerokovala dňa 10. 2. 2025 predkladanú výročnú správu, časť A.

Dosiahnuté výsledky za rok 2024 sú z hľadiska parametrov (články CC, WOS, kvartily) o niečo nižšie ako v minulom roku, ide však o bežný medziročný pokles. Ukazovatele v oblasti ohlasov sú zasa o niečo vyššie. Výber najdôležitejších výsledkov dosiahnutých na ústave dobre ilustruje vysokú úroveň vedeckého výskumu na pracovisku.

Z tohto hľadiska, ktoré považujeme za kľúčové (dosahované vedecké výsledky), je pracovisko plne spôsobilé vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 10. 2. 2025

Mgr. Anna Jenčová, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):

prof. RNDr. Anatolij Dvurečenskij, DrSc., 02/ 5751 0412
Mgr. Marek Hyčko, PhD., 02/5751 0502
doc. RNDr. Karol Nemoga, CSc., 02/ 5751 0415

Bratislava, 10. 2. 2025

doc. RNDr. Karol Nemoga, CSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. RNDr. Anatolij Dvurečenskij, DrSc.	100	1.00
2.	doc. RNDr. Ľubica Holá, DrSc.	100	1.00
3.	Mgr. Anna Jenčová, DrSc.	100	1.00
4.	prof. RNDr. Roman Nedela, DrSc.	45	0.45
5.	doc. RNDr. Sylvia Pulmannová, DrSc.	50	0.50
6.	doc. RNDr. Oto Strauch, DrSc.	60	0.60
7.	prof. RNDr. Gejza Wimmer, DrSc.	100	1.00
8.	Mgr. Andrea Zemánková, DrSc.	100	1.00
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.	RNDr. Katarína Čunderlíková, PhD.	100	1.00
3.	Mgr. Natália Dilna, PhD.	100	1.00
4.	RNDr. Stefan Dobrev, PhD.	100	1.00
5.	prof. RNDr. Michal Fečkan, DrSc.	50	0.50
6.	prof. RNDr. Otokar Grošek, PhD.	45	0.45
7.	doc. RNDr. Ján Haluška, CSc.	100	1.00
8.	prof. RNDr. Miroslav Haviar, CSc.	11	0.11
9.	Ing. Michal Hospodár, PhD.	100	1.00
10.	Ing. Irena Jadlovská, PhD.	100	1.00
11.	RNDr. Galina Jirásková, CSc.	100	1.00
12.	doc. Mgr. Ján Karabáš, PhD.	20	0.20
13.	RNDr. Alžbeta Michalíková, PhD.	11	0.11
14.	doc. RNDr. Karol Nemoga, CSc.	100	1.00
15.	doc. Ing. Gabriel Okša, CSc.	100	1.00
16.	doc. RNDr. Milan Paštéka, CSc.	3	0.03
17.	RNDr. Jozef Pócs, PhD.	100	1.00

18.	RNDr. Michal Pospíšil, PhD.	20	0.20
19.	doc. PhDr. Silvia Puteková, PhD.	16	0.16
20.	doc. RNDr. Miroslav Repický, CSc.	100	1.00
Vedeckí pracovníci			
1.	doc. RNDr. Vladimír Baláž, CSc.	1	0.01
2.	RNDr. Peter Eliaš, PhD.	100	1.00
3.	Raquel Fernández-Peralta, PhD.	100	0.33
4.	doc. RNDr. Rudolf Hajossy, CSc.	32	0.32
5.	RNDr. Emília Halušková, CSc.	100	1.00
6.	Mgr. Marek Hyčko, PhD.	100	1.00
7.	Mgr. Michaela Koščová, PhD.	100	0.36
8.	RNDr. Martina Langerová, PhD.	3	0.03
9.	Ing. Fedor Lehocki, PhD.	40	0.40
10.	doc. Mgr. Tibor Macko, PhD.	25	0.25
11.	doc. Mgr. Ján Mačutek, PhD.	100	1.00
12.	Mgr. Peter Mlynárčik, PhD.	11	0.11
13.	Ing. Igor Mračka, PhD.	100	1.00
14.	Mgr. Branislav Novotný, PhD.	100	1.00
15.	RNDr. Igor Odrobina, CSc.	100	0.00
16.	doc. PaedDr. Martin Papčo, PhD.	5	0.05
17.	RNDr. Martin Plávala, PhD.	100	0.00
18.	Mgr. Eva Plávalová, PhD.	3	0.03
19.	Mgr. Ladislav Stacho, CSc.	100	0.00
20.	doc. Ondrej Šuch, PhD., M.Sc.	25	0.25
21.	Mgr. Elena Vinceková, PhD.	100	1.00
22.	Dr. Omid Zahiri, PhD.	100	1.00
23.	RNDr. Tibor Žáčik, CSc.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Ferdinand Čapka	3	0.03
2.	Ing. Peter Sýs	3	0.03
3.	Mgr. Jana Valigurská	3	0.03
4.	Ing. Peter Zigman	3	0.14
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Iveta Červenková	90	0.88
2.	RNDr. Dana Kákošová	100	1.00

3.	Ing. Miroslav Macura	50	0.50
4.	Ing. Martin Maják	50	0.50
5.	RNDr. Alexandra Mojžišová, PhD.	100	1.00
6.	Mgr. Barbora Rajčeková	60	0.60
Odborní pracovníci ÚSV			
1.	Marianna Bečková	60	0.60
2.	Jana Galbová	100	1.00
3.	Ivana Geriaková	100	1.00
4.	Ivana Hudecová	90	0.90
5.	Zuzana Kvapilová	100	1.00
6.	Eugénia Ondrušková	100	1.00
7.	Bc. Henrieta Paľová	24	0.24
8.	Katarína Štefančíková	100	1.00
Ostatní pracovníci			
1.	Janka Badiarová	33	0.33
2.	Ing. Lucia Mišíková	36	0.36
3.	Ing. Juraj Prochác	100	1.00
4.	Beata Szabová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	Albertus Lindenhovius, PhD.	9.6.2024	0.44
2.	RNDr. Igor Odrobina, CSc.	31.12.2024	0.00
Odborní pracovníci ÚSV			
1.	Katarína Nagyová	31.3.2024	0.15

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Friday Ikechukwu Agu	Fakulta matematiky, fyziky a informatiky UK	1113 matematika
2.	Muhammad Azeem	Fakulta matematiky, fyziky a informatiky UK	1113 matematika
3.	Ing. Ferdinand Čapka	Fakulta matematiky, fyziky a informatiky UK	1113 matematika
4.	Mgr. Viktor Olejár	Fakulta matematiky, fyziky a informatiky UK	1113 matematika
5.	Ahmed Ibrahim Mohamed Mahmoud Abo Saied	Fakulta matematiky, fyziky a informatiky UK	1113 matematika

6.	Mgr. Jana Valigurská	Fakulta matematiky, fyziky a informatiky UK	1113 matematika
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Mgr. Ivan Vlček	Fakulta matematiky, fyziky a informatiky UK	1113 matematika

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Domáce projekty

Programy: VEGA

1.) Viachodnotové modely neurčitosti *(Multivalued models of uncertainty)*

Zodpovedný riešiteľ:	Katarína Čunderlíková
Trvanie projektu:	1.1.2023 / 31.12.2025
Evidenčné číslo projektu:	VEGA 2/0122/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 1425 €

Dosiahnuté výsledky:

Zaoberali sme sa definovaním skoro rovnomernej konvergencie pre intuitionistické fuzzy pozorovateľné a dokázali sme variáciu Ergovovovej vety. Skúmali sme súvis medzi skoro rovnomernou konvergenciou intuitionistických fuzzy pozorovateľných a náhodných premenných. Takisto sme sformulovali skoro rovnomernú konvergenciu pre MV-algebru a D-poset intuitionistických fuzzy množín.

1. ČUNDERLÍKOVÁ, Katarína. On Another Type of Convergence for Intuitionistic Fuzzy observables. In Mathematics, 2024, vol. 12, iss. 1, art. no. 127. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR) ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12010127

2. ČUNDERLÍKOVÁ, Katarína. A note about almost uniform convergence on D-poset of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2024, vol. 30, no. 1, p. 56-65. ISSN 1310-4926. Dostupné na: https://doi.org/10.7546/nifs.2024.30.1.56-65

3. ČUNDERLÍKOVÁ, Katarína. Almost uniformly convergence on MV-algebra of intuitionistic fuzzy sets. In Notes on Intuitionistic Fuzzy Sets, 2023, vol. 29, no. 4, pp. 335-342. ISSN 1310-4926. Dostupné na: https://doi.org/10.7546/nifs.2023.29.4.335-342

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

Zodpovedný riešiteľ:	Michal Fečkan
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0062/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 7267 €

Dosiahnuté výsledky:
Frakcionálne diferenciálne rovnice s impulzami sú študované v prácach [7,12].

Problém vetra v atmosférickej vrstve Ekmana a príbuzné úlohy prúdenia sú študované v článkoch [5,15].

Riaditeľnosť a pozorovateľnosť kvaterniónových impulzívnych diferenciálnych rovníc sa študuje v článku [4].

Frakcionálne nerovnosti a identity sú študované v prácach [1,10].

V [8,9,14] študujeme existenciu heteroklinicky asymptotických riešení pre nespojité diferenciálne rovnice s pomaly sa meniacimi koeficientmi.

V práci [17] sa riešia určité typy nelineárnych diferenčných rovníc.

[1] ALI, Muhammad Aamir - FEČKAN, Michal - PROMSAKON, Chanon - SITTHIWIRATTHAM, Thanin. A new Approach of Generalized Fractional Integrals in Multiplicative Calculus and Related Hermite–Hadamard-Type Inequalities with Applications. In Mathematica Slovaca, 2024, vol. 74, no. 6, p. 1445-1456. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0105

[2] MEDVEĎ, Milan - POSPÍŠIL, Michal - BRESTOVANSKÁ, Eva. A New Nonlinear Integral Inequality with a Tempered ?–Hilfer Fractional Integral and Its Application to a Class of Tempered ?–Caputo Fractional Differential Equations. In Axioms, 2024, vol. 13, no. 5, art. no. 301. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13050301

[3] FEKETE, Gusztav** - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585

[4] SUO, Leping - FEČKAN, Michal - WANG, JinRong**. Controllability and observability results for quaternion-valued impulsive differential equations. In Rocky Mountain Journal of Mathematics, 2024, vol. 54, no. 4, p. 1175-1211. ISSN 0035-7596. Dostupné na: https://doi.org/10.1216/rmj.2024.54.1175

[5] FEČKAN, Michal - LI, Shan - WANG, JinRong. Discontinuous differential equation for modelling the Antarctic Circumpolar Current. In COMMUNICATIONS IN ANALYSIS AND MECHANICS, 2024, vol. 16, iss. 4, p. 836-857. ISSN 2836-3310. Dostupné na: https://doi.org/10.3934/cam.2024036

[6] POSPÍŠIL, Michal - POSPÍŠILOVÁ-ŠKRIPKOVÁ, Lucia. Existence Results for Differential Equations with Tempered ?–Caputo Fractional Derivatives. In Axioms, 2024, vol.13, no. 10, art. no. 680. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13100680

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[8] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations. In Journal of differential equations, 2024, vol. 400, p. 314-375. ISSN 0022-0396. Dostupné na: https://doi.org/10.1016/j.jde.2024.04.022

[9] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 27, p. 1-30. ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.27

[10] ALI, Muhammad Aamir - LIU, Wei** - FURUICHI, Shigeru - FEČKAN, Michal**. Improved Hermite-Hadamard Inequality Bounds for Riemann-Liouville Fractional Integrals via Jensen´s Inequality. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 547. ISSN 2504-3110. Dostupné na: https://doi.org/10.3390/fractalfract8090547

[11] JADLOVSKÁ, Irena - CHATZARAKIS, George E.** - TUNC, Ercan. Kneser-type oscillation theorems for second-order functional differential equations with unbounded neutral coefficients. In Mathematica Slovaca, 2024, vol. 74, no. 3, s. 637-664. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0049

[12] DANCA, Marius-F.** - FEČKAN, Michal. Memory Principle of the MATLAB Code for Lyapunov Exponents of Fractional-Order. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 12, art. nr. 2450156, p. 1-11. ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424501566

[13] HASIL, Petr - POSPÍŠIL, Michal** - POSPÍŠILOVÁ ŠKRIPKOVÁ, Lucia - VESELÝ, Michal. Note on oscillation of neutral differential equations with multiple delays. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 39, p. 1-18. ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.39

[14] BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. On Existence of Heteroclinic Connections in Discontinuous Kurland-Levi Differential Equations with Slowly Varying Coefficients. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 16, art. nr. 2450208, 33 p. ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424502080

[15] YANG, Taoyu - FEČKAN, Michal - WANG, JinRong**. Study of nonlinear trapped lee waves in the modified ?-plane approximation. In Physics of Fluids, 2024, vol. 36, no. 8, art. nr. 086623. ISSN 1070-6631. Dostupné na: https://doi.org/10.1063/5.0228355

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[17] KAOUACHE, Smail - FEČKAN, Michal - HALIM, Yacine - KHELIFA, Amira. Theoretical analysis of higher-order system of difference equations with generalized balancing numbers. In Mathematica Slovaca, 2024, vol. 74, no. 3, p. 691-702. ISSN 0139-9918. Dostupné na: https://doi.org/10.1515/ms-2024-0052

[18] DILNA, Natália** - FEKETE, Gusztáv - LANGEROVÁ, Martina - TÓTH, Balázs. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Differential Equations with Deviating Arguments. In Mathematics, 2024, vol. 12, no. 21, art. nr. 3418. ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12213418

[19] DILNA, Natália - LANGEROVÁ, Martina. Ulam-Hyers and generalized Ulam-Hyers stability of fractional functional integro-differential equations. In IFAC-PapersOnLine, 2024, vol. 58, no. 12, pp. 280-285. ISSN 2405-8963. Dostupné na: https://doi.org/10.1016/j.ifacol.2024.08.203

3.) Topologické štruktúry na priestoroch funkcií

Zodpovedný riešiteľ:	Ľubica Holá
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	VEGA 2/0048/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 4432 €

Dosiahnuté výsledky:
1. Ľ. Holá, D. Holý, Baire 1 functions and the topology of uniform convergence on compacta, Mathematics, 2024, 12 1494

2. V našom článku Ľubica Holá, László Zsilinszky, On a characterization of complete metrizability of the Hausdorff metric topology, je ukázané za predpokladu hypotézy kontinua, že topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X*\X,d*) je separabilný, kde (X*,d*) je zúplnenie priestoru (X,d).

4.) Modelovanie neklasických javov a neurčitosti *(Modeling of Non-Classical Events and Uncertainty)*

Zodpovedný riešiteľ:	Anna Jenčová
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA 2/0128/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13062 €

Dosiahnuté výsledky:
Prijaté články:

[1] KALAFUT, Juraj - MESIAROVÁ-ZEMÁNKOVÁ, Andrea**. Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum. In Information Sciences, 2025, vol. 690, art. nr. 121573. ISSN 0020-0255. Dostupné na: https://doi.org/10.1016/j.ins.2024.121573

5.) Automaty a formálne jazyky: popisná a výpočtová zložitosť *(Automata and formal languages: descriptional and computational complexity)*

Zodpovedný riešiteľ:	Galina Jirásková
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	VEGA 2/0096/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5428 €

Dosiahnuté výsledky:

[1] HOSPODÁR, Michal** - OLEJÁR, Viktor - ŠEBEJ, Juraj. Decision Problems for Subregular Classes. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 180-194. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-71112-1_13

[2] JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina** - SHALLIT, Jeffrey. State Complexity of the Minimal Star Basis. In Implementation and Application of Automata : Proceedings, 2024, vol. 15015, pp. 195-207. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-71112-1_14

6.) Chromatické problémy a polynómy *(Chromatic Problems and Polynomials)*

Zodpovedný riešiteľ:	Martin Kochol
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0042/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 1900 €

Dosiahnuté výsledky:

KOCHOL, M.: Linear algebraic relations among cardinalities of sets of matroid functions, Mathematics 11(11) (2023) 2570 (ADCA).

7.) Teoretické vlastnosti a aplikácie špeciálnych tried rozdelení pravdepodobnostiti *(Theoretical properties and applications of special families of probability distributions)*

Zodpovedný riešiteľ:	Ján Mačutek
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA 2/0120/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7595 €

Dosiahnuté výsledky:
[1] WIMMER, Gejza - WITKOVSKÝ, Viktor. Calibration model as a straight-line errors-in-variables model. In The Eighth International Conference on Mathematical Statistics PROBASTAT 2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52.

[2] NOGOLOVÁ, Michaela - MAČUTEK, Ján - KUBÁT, Miroslav. What can be heard in the Czech Parliament. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 2.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 673-682. ISBN 978-2-39061-473-9.

[3] XIYNING, Chen - KUBÁT, Miroslav - MAČUTEK, Ján. Directions of Dependency Structures in the Czech National Corpus SYN2020: Application to Genre Classification. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 1.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 219-228. ISBN 978-2-39061-471-5.

[4] Wimmer, G., Witkovský, V., Zůda, J. Kalibrácia dvoch závaží s použitím referenčného závažia. In ROBUST 2024: 23. letná škola JČ(S)MF Bardejov 8-13. IX. 2024 (Zborník abstraktov, Praha, ČR, JČMF, 2024, p. 19)

8.) Efektívne Jacobiho algoritmy pre EVD/SVD rozklady matíc a ich numerické vlastnosti
(Effective Jacobi algorithms for EVD/SVD matrix decompositions and their numerical properties)

Zodpovedný riešiteľ:	Gabriel Okša
Trvanie projektu:	1.1.2023 / 31.12.2025
Evidenčné číslo projektu:	VEGA 2/0001/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3800 €

Dosiahnuté výsledky:

9.) Nové perspektívy a aplikácie vo výskume agregačných funkcií

Zodpovedný riešiteľ:	Jozef Pócs
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0104/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7600 €

Dosiahnuté výsledky:
[1] HALAŠ, Radomír - PÓCS, Jozef. On zero-divisor graphs of infinite posets. In Soft Computing, 2024, vol. 28, p. 12113-12118. ISSN 1432-7643. Dostupné na: https://doi.org/10.1007/s00500-024-09958-8

[2] HALUŠKOVÁ, Emília. Modular lattice - a short memory of the centenary of the birth of Ján Jakubík. In 22. Konferencia košických matematikov. - Košice, Slovensko : Technická univerzita v Košiciach, 2024, 2024, s. 22-23. ISBN 978-80-553-4666-3. Dostupné na internete: https://jsmf.fberg.tuke.sk/zborniky/Herlany2024BOA.pdf

[3] HALUŠKOVÁ, Emília - SCHWARTZOVÁ, Radka**. On discrete properties of Bernoulli shift. In International Journal of Geometric Methods in Modern Physics, 2024, vol. 21, no. 8, art. nr. 2450160, 14 p. ISSN 0219-8878. Dostupné na: https://doi.org/10.1142/S0219887824501603

[4] JASTRZĘBSKA, Malgorzata - HALUŠKOVÁ, Emília. On Integers in Limit Constructions of Algebraic Structures. In Computer Algebra Systems in Teaching and Research 2024 : Volume XIII. - Siedlce, Poland : University of Siedlce, 2024, 2024, vol. 13, p. 107-118. ISBN 978-83-68355-03-1.

[5] HALUŠKOVÁ, Emília. On discrete properties of continuous monotone functions. In Miskolc Mathematical Notes, 2024, vol. 25, no. 2, p. 699-712. ISSN 1787-2405. Dostupné na: https://doi.org/10.18514/MMN.2024.4459

10.) Teória čísel a jej aplikácie *(Number theory and its applications)*

Zodpovedný riešiteľ:	Oto Strauch
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	VEGA 2/0119/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6699 €

Dosiahnuté výsledky:
[1] FEKETE, Gusztav** - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585

11.) Vplyv materiálov na akustické vlastnosti historických jendomanuálových orgánov na území Slovenska *(Influence of materials on acoustic properties of historical single-manual pipe organs in Slovakia)*

Zodpovedný riešiteľ:	Andrej Štafura
Zodpovedný riešiteľ v organizácii SAV:	Ján Haluška
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	VEGA 2/0134/23
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav materiálov a mechaniky strojov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
[1] HALUŠKA, Ján. Sound linear variety of normed principal mensure. In ACOUSTICS 2024 High Tatra : Book of Extended Abstracts. - Technical University in Zvolen, Slovak University of Technology in Bratislava, 2024, p. 43. ISBN 978-80-228-3419-3. Dostupné na internete: https://acoustics.sk/dokumenty/Book-Extended-Abstracts-ACOUSTICS-2024-High-Tatras.pdf

12.) Klasifikácia ansámblami z neurónových sietí *(Classification using ensembles of neural networks)*

Zodpovedný riešiteľ:	Ondrej Šuch
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0172/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 1138 €

Dosiahnuté výsledky:

13.) Pokročilé prístupy k agregácii dát a ich aplikácie *(Advanced approaches to data aggregation and applications)*

Zodpovedný riešiteľ:	Andrea Zemánková
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	VEGA 1/0036/23
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stavebná fakulta, Slovenská technická univerzita v Bratislave
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 2088 €

Dosiahnuté výsledky:
[1] MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Representation of non-commutative, idempotent, associative functions by pair-orders. In Fuzzy Sets and Systems, 2024, vol. 475, art. nr. 108759. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2023.108759

[2] MESIAROVÁ-ZEMÁNKOVÁ, Andrea** - HOLČAPEK, Michal. Commutative, associative and monotone functions on horizontal sum of chains. In Fuzzy Sets and Systems, 2024, vol. 479, art. nr. 108843. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/

[3] MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most single point incomparable with the neutral element: Part I. International Journal of General Systems, 1–19. https://doi.org/10.1080/03081079.2024.2375441

[4] MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., & WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most a single point incomparable with the neutral element: Part II. International Journal of General Systems, 1–34. https://doi.org/10.1080/03081079.2024.2375437

[5] KALAFUT, Juraj - MESIAROVÁ-ZEMÁNKOVÁ, Andrea**. Decomposition of pseudo-uninorms with continuous underlying functions via ordinal sum. In Information Sciences, 2025, vol. 690, art. nr. 121573. ISSN 0020-0255. Dostupné na: https://doi.org/10.1016/j.ins.2024.121573

Programy: APVV

14.) Pravdepodobnostné, algebrické a kvantovo-mechanické metódy určovania neurčitosti
(Probabilistic, Algebraic and Quantum Mechanical Methods of Uncertainty Determination)

Zodpovedný riešiteľ:	Anatolij Dvurečenskij
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0069
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 27346 €

Dosiahnuté výsledky:
1.A. Dvurečenskij, O. Zahiri, Representation and embedding of pseudo MV-algebras with square roots I. Strict square roots, J. Appl. Logic IfCoLog Journal of Logics and their Applications 11 (2024), 499-527.

2.A. Dvurečenskij, O. Zahiri, Representation and embedding of pseudo MV-algebras with square roots II. Closures, J. Appl. Logic IfCoLog Journal of Logics and their Applications 11 (2024), 529--563.

3.A. Dvurečenskij, O. Zahiri, M. Shenavaei, R. A. Borzooei, n-roots on MV-algebras, Fuzzy Sets and Systems 484 (2024), Art. Num. 108930 https://doi.org/10.1016/j.fss.2024.108930

4.A. Dvurečenskij, O. Zahiri, MV-algebras and their corresponding Bézout domains, Comm. Algebra 52 (2024), 5165--5179. https://doi.org/10.1080/00927872.2024.2367165

5.F. Hiai, A. Jenčová: α-z-Rényi divergences in von Neumann algebras: Data processing inequality, reversibility, and monotonicity properties in α,z, Communications in Mathematical Physics 405 (2024), art. nr. 271.

6.A. Jenčová: Recoverability of quantum channels via hypothesis testing, Letters in Mathematical Physics, 114 (2024), art. nr. 31.

7.A. Jenčová: The exponential Orlicz space in quantum information geometry, Information Geometry, 7 (2024), 377-395.

8.A. Mesiarová-Zemánková, M. Holčapek, Commutative, associative and monotone functions on horizontal sum of chains, Fuzzy Sets and Systems 479 (2024), 108843.

9.A. Mesiarová-Zemánková, Representation of non-commutative, idempotent, associative functions by pair-orders, Fuzzy Sets and Systems 475 (2024), 108759.

10.A. Mesiarová-Zemánková, Uninorms internal on one or more non-trivial cuts, Information Sciences 653 (2024), 119793.

11.Y. Su, Z. Wang, A. Mesiarová-Zemánková, R. Mesiar, Characterizing three classes of idempotent uninorms on a bounded lattice, Iranian Journal of Fuzzy Systems 20(5), (2023), 109-120.

12.R. Halaš, J. Pócs: On zero-divisor graphs of infinite posets, Soft Computing (2024) 28:12113–12118.

13.Antoni Ľ., Eliaš P., Guniš J., Kotlárová D., Krajči S., Krídlo O., Sokol P., Šnajder Ľ., Bimorphisms and attribute implications in heterogeneous formal contexts, International Journal of Approximate Reasoning 172, (2024), 109245. https://doi.org/10.1016/j.ijar.2024.109245

14.Pitka T., Bucko J., Krajči S., Krídlo O., Guniš J., Šnajder Ľ., Antoni Ľ., Eliaš P., Time analysis of online consumer behavior by decision trees, GUHA association rules, and formal concept analysis, Journal of Marketing Analytics (2024). https://doi.org/10.1057/s41270-023-00274-y

15.Monteiro, A.S., Santiago, R., Papčo, M. et al. On conditional monotonicities of interval-valued functions. Comp. Appl. Math. 43, 200 (2024). https://doi.org/10.1007/s40314-024-02715-5

16. MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most single point incomparable with the neutral element: Part I. International Journal of General Systems, 1–19. https://doi.org/10.1080/03081079.2024.2375441

17. MESIAROVÁ-ZEMÁNKOVÁ, A., MESIAR, R., SU, Y., & WANG, Z. (2024). Idempotent uninorms on bounded lattices with at most a single point incomparable with the neutral element: Part II. International Journal of General Systems, 1–34. https://doi.org/10.1080/03081079.2024.2375437

15.) Topologické štruktúry a priestory funkcií *(Topological structures and spaces of functions)*

Zodpovedný riešiteľ:	Ľubica Holá
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0045
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 11250 €

Dosiahnuté výsledky:

1. Ľ. Holá, D. Holý, Baire 1 functions and the topology of uniform convergence on compacta, Mathematics, 2024, 12 1494

2. V našom článku Ľubica Holá, László Zsilinsszky, On a characterization of complete metrizability of the Hausdorff metric topology, je ukázané za predpokladu hypotézy kontinua, že topológia odvodená od Hausdorffovej metriky na hyperpriestore CL(X), neprázdnych uzavretých podmnožín metrického priestoru (X,d), je úplne metrizovateľná vtedy a len vtedy, keď (X,d) je úplne metrizovateľný a priestor (X*\X,d*) je separabilný, kde (X*,d*) je zúplnenie priestoru (X,d).

16.) Výnimočné štruktúry v diskrétnej matematike *(Exceptional structures in discrete mathematics)*

Zodpovedný riešiteľ:	Roman Nedela
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0308
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FMFI UK
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 1800 €

Dosiahnuté výsledky:

[1] KARABÁŠ, Ján - MÁČAJOVÁ, Edita - NEDELA, Roman - ŠKOVIERA, Martin**. Cubic graphs with colouring defect 3. In The electronic journal of combinatorics, 2024, vol. 31, no. 2, art. nr. P2.6. ISSN 1077-8926. Dostupné na: https://doi.org/10.37236/12333

[2] KARABÁŠ, Ján - NEDELA, Roman - SKYVOVÁ, Mária. Computing equivalence classes of finite group actions on orientable surfaces. In Journal of Pure and Applied Algebra, 2024, vol. 228, no. 6, art. nr. 107578. ISSN 0022-4049. Dostupné na: https://doi.org/10.1016/j.jpaa.2023.107578

[3] NEDELA, Roman - SEIFRTOVÁ, Michaela - ŠKOVIERA, Martin**. Decycling cubic graphs. In Discrete Mathematics, 2024, vol. 347, art. nr. 114039. ISSN 0012-365X. Dostupné na: https://doi.org/10.1016/J.DISC.2024.1 114039

[4] KAWARABAYASHI, Ken-Ichi - MOHAR, Bojan - NEDELA, Roman - ZEMAN, Peter. Automorphisms and Isomorphisms of Maps in Linear Time. In ACM Transactions on Algorithms, 2024, vol. 21, no. 1, art. nr. 6, p. 1-32. ISSN 1549-6325. Dostupné na: https://doi.org/10.1145/3686798

17.) Výnimočné štruktúry v diskrétnej matematike: vlastnosti, konštrukcie a ich klasifikácie *(Exceptional Structures in Descrete Mathematics: Properties, Constructions and Classifications)*

Zodpovedný riešiteľ:	Roman Nedela
Trvanie projektu:	1.9.2024 / 30.6.2028
Evidenčné číslo projektu:	APVV-23-0076
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta matematiky, fyziky a informatiky, Univerzita Komenského
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 1700 €

Dosiahnuté výsledky:

18.) Ontologická reprezentácia pre bezpečnosť informačných systémov *(Ontological representation for security of information systems)*

Zodpovedný riešiteľ:	Karol Nemoga
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0220
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FEI STU Bratislava
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 2537 €

Dosiahnuté výsledky:
[1] FEKETE, Gusztav** - MÁTÉ, Márton - POPA-MÜLLER, Izolda - WANG, Hai-Qiao - DILNA, Natália - NEMOGA, Karol. Computational Wear Prediction in Total Knee Replacements as a FUnction of Replacement Size. In Material Strength and Applied Mechanics : Proceedings. 59.Advances in Transdisciplinary Engineering, 2024, vol. 59, p. 494-500. Dostupné na: https://doi.org/10.3233/ATDE240585

19.) Efektívne výpočtové metódy pre charakterizáciu materiálov v nanomierke *(Efficient computation methods for nanoscale material characterization)*

Zodpovedný riešiteľ:	Gejza Wimmer
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD-21-0109
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 8499 €

Dosiahnuté výsledky:
[1] CHARVÁTOVÁ CAMPBELL, A. - ŠLESINGER, R. - KLAPETEK, P. - CHVOSTEKOVÁ, Martina - HAJZOKOVÁ, Laura - WITKOVSKÝ, Viktor - WIMMER, Gejza. Locally best linear unbiased estimation of regression curves specified by nonlinear constraints on the model parameters. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 143-150. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674_0012

[2] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in the straight-line calibration. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674_0030

[3] CHARVÁTOVÁ CAMPBELL, A. - KLAPETEK, P. - ŠLESINGER, R. - WITKOVSKÝ, V. - WIMMER, G. Fitting the AFM force–distance curves the correct way. In Measurement Science and Technology 36 (2025) 015022 (8pp), https://doi.org/10.1088/1361-6501/ad8b60

[4] WIMMER, G. - WITKOVSKÝ, V. Calibration model as a straight-line errors-in-variables model. In The Eighth International Conference on Mathematical Statistics PROBASTAT 2024, Smolenice 20-24.V.2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52.

[5] WIMMER, Gejza - WITKOVSKÝ, Viktor - ZŮDA, J. Kalibrácia dvoch závaží s použitím referenčného závažia. In ROBUST 2024: Sborník abstraktů. - Praha, ČR : JČMF, 2024, p. 19 ROBUST 2024, 23. letní škola JČ(S)MF Bardějov 8. - 13. 9. 2024

[6] Charvátová-Campbell A., Šlesinger R., Witkovský V., Wimmer G., Buršíková V.: Applications of Iterated Linearization for Non-Linear Errors-in-Variable Regression to Metrological Data, XXIV IMEKO World Congress "Think Metrology", Hamburg, Germany, August 26-29, 2024
prijaté do Measurement: Sensors

[7] Witkovský V., Wimmer G., Charvátová-Campbell A., Klapetek P., Šlesinger R.: Estimation of Function Parameters through Iterated Linearization for Nonlinear Errors-in-Variable Regression with Correlated Variables, XXIV IMEKO World Congress "Think Metrology", Hamburg, Germany, August 26-29, 2024
prijaté do Measurement: Sensors

[8] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress "Think Metrology" , Hamburg, Germany, August 26-29, 2024,
prijaté do Measurement: Sensors

20.) Výskum možnosti digitálnej transformácie kontinuálnych dopravných systémov
(Research the possibility of digital transformation of continuous transport systems)

Zodpovedný riešiteľ:	Gejza Wimmer
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0195
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3653 €

Dosiahnuté výsledky:
[1] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in the straight-line calibration. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674_0030

[2] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress "Think Metrology" , Hamburg, Germany, August 26-29, 2024,
prijaté do Measurement: Sensors

21.) Pokročilé matematické a štatistické metódy pre meranie a metrológiu *(Advanced mathematical and statistical methods for measument and metrology)*

Zodpovedný riešiteľ:	Viktor Witkovský
Zodpovedný riešiteľ v organizácii SAV:	Gejza Wimmer
Trvanie projektu:	1.7.2022 / 31.12.2025
Evidenčné číslo projektu:	APVV-21-0216
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav merania SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15619 €

Dosiahnuté výsledky:

[1] WIMMER, Gejza - WITKOVSKÝ, Viktor - FIŠEROVÁ, E. Linearization region in the straight-line calibration. In Advanced Mathematical and Computational Tools in Metrology and Testing XIII. - Singapur : World Scientific Publishing, 2024, p. 330-337. ISBN 978-981-98-0066-7, https://doi.org/10.1142/9789819800674_0030

[2] Wimmer G., Palenčár J., Dovica M., Palenčár R., Tóth T., Witkovský V.: Determination of the Uncertainty of Length Measurement with a Three-Coordinate Measuring Device, XXIV IMEKO World Congress "Think Metrology" , Hamburg, Germany, August 26-29, 2024, prijaté do Measurement: Sensors

[3] WIMMER, G. - WITKOVSKÝ, V. Calibration model as a straight-line errors-in-variables model. In The Eighth International Conference on Mathematical Statistics PROBASTAT 2024: Abstracts. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2024, p. 52.

[4] WIMMER, Gejza - WITKOVSKÝ, Viktor - ZŮDA, J. Kalibrácia dvoch závaží s použitím referenčného závažia. In ROBUST 2024: Sborník abstraktů. - Praha, ČR : JČMF, 2024, p. 19 ROBUST 2024, 23. letní škola JČ(S)MF Bardějov 8. - 13. 9. 2024

22.) Navrhovanie kvantových štruktúr vyššieho rádu *(Designing quantum higher order structures)*

Zodpovedný riešiteľ:	Mário Ziman
Zodpovedný riešiteľ v organizácii SAV:	Anna Jenčová
Trvanie projektu:	1.7.2023 / 30.6.2026
Evidenčné číslo projektu:	APVV-22-0570
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20395 €

Dosiahnuté výsledky:

Programy: ŠPVV

23.) Príprava Národného programu kvantových technológií SR

Zodpovedný riešiteľ:	Karol Nemoga
Trvanie projektu:	1.1.2018 /
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská národná výskumná platforma kvantových technológií QUTE
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: Vnútroústavné

24.) 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, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: SASPRO

25.) Relations between EMV-algebras, pseudo MV-algebras and commutative and noncommutative Bézout domains *(Relations between EMV-algebras, pseudo MV-algebras and commutative and noncommutative Bézout domains)*

Zodpovedný riešiteľ:	Omid Zahiri
Trvanie projektu:	1.8.2022 / 31.7.2025
Evidenčné číslo projektu:	1048/01/01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SASPRO: 54347 €

Dosiahnuté výsledky:
[1] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid**. MV-algebras and their corresponding Bézout domains. In Communications in Algebra, 2024, vol. 52, no. 12, p. 5165-5179. ISSN 0092-7872. Dostupné na: https://doi.org/10.1080/00927872.2024.2367165

[2] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid - SHENAVAEI, M. - BORZOOEI, R.A.**. n-roots on MV-algebras. In Fuzzy Sets and Systems, 2024, vol. 484, art. no. 108930. ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2024.108930

[3] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots II. Closures. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 529-563. ISSN 2055-3706. Dostupné na internete: https://www.collegepublications.co.uk/ifcolog/?00066

[4] DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Representation and Embedding of Pseudo MV-algebras with Square Roots I. Strict Square Roots. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2024, vol. 11, no. 4, p. 499-527. ISSN 2055-3706. Dostupné na internete: https://www.collegepublications.co.uk/ifcolog/?00066

Programy: Plán obnovy EÚ

26.) Kvalitatívna teória dynamických rovníc na časových škálach *(Qualitative Theory of Dynamic Equations on Time Scales)*

Zodpovedný riešiteľ:	Ahmed Ibrahim Mohamed Mahmoud Abo Saied
Trvanie projektu:	1.4.2024 / 30.6.2026
Evidenčné číslo projektu:	09I03-03-V02-00040
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Vláda SR: 12407 €

Dosiahnuté výsledky:
[1] SAIED, Ahmed I. A study on reversed dynamic inequalities of Hilbert-type on time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art.nr. 75. ISSN 1029-242X. Dostupné na: https://doi.org/10.1186/s13660-024-03091-8

[2] ZAKARYA, M. - ALNEMER, Ghada - SAIED, Ahmed I. - REZK, H. M.**. Novel generalized inequalities involving a general Hardy operator with multiple variables and general kernels on time scales. In AIMS Mathematics, 2024, vol. 9, no. 8, p. 21414-21432. ISSN 2473-6988. Dostupné na: https://doi.org/10.3934/math.20241040

[3] ZAKARYA, Mohammed - SAIED, Ahmed I. - AL-THAQFAN, Amirah Ayidh I - ALI, Maha - REZK, Haytham M.**. On Some New Dynamic Hilbert-Type Inequalities across Time Scales. In Axioms, 2024, vol. 13, no. 7, art. no. 475. ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13070475

[4] AL-OUSHOUSH, Nizar Kh.** - AZAR, Laith E. - AWWAD, Essam - KRNIC, Mario - SAIED, Ahmed I. Some new dynamic inequalities for B-monotone functions with respect to time scales

nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art. nr. 122. ISSN 1029-242X. Dostupné na: https://doi.org/10.1186/s13660-024-03202-5

[5] AWWAD, Essam** - SAIED, Ahmed I. Some weighted dynamic inequalities of Hardy type with kernels on time scales nabla calculus. In Journal of Mathematical Inequalities, 2024, vol. 18, no. 2, p. 457-475. ISSN 1846-579X. Dostupné na: https://doi.org/10.7153/jmi-2024-18-25

27.) Funkcie fuzzy implikácií a ich aplikácie *(Fuzzy Implication Functions and Their Applications)*

Zodpovedný riešiteľ:	Raquel Fernández-Peralta
Trvanie projektu:	1.9.2024 / 31.8.2026
Evidenčné číslo projektu:	09I03-03-V04-00557
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Vláda SR: 24718 €

Dosiahnuté výsledky:

28.) Matematické modely zákonov lingvistiky *(Mathematical Models of Linguistic Laws)*

Zodpovedný riešiteľ:	Ján Mačutek
Trvanie projektu:	1.9.2024 / 31.8.2026
Evidenčné číslo projektu:	09I03-03-V04-00748
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Vláda SR: 36586 €

Dosiahnuté výsledky:
[1] KUBÁT, Miroslav** - MAČUTEK, Ján - ČECH, Radek - NOGOLOVÁ, Michaela. Automatic Genre Classification of Czech Texts Based on Syntactic Functions. In New Frontiers in Textual Data Analysis. Eds. Giuseppe Giordano, Michelangelo Misuraca. - Cham, Switzerland : Springer, 2024, p. 163-172. ISBN 978-3-031-55916-7. ISSN 1431-8814. Dostupné na: https://doi.org/10.1007/978-3-031-55917-4_13

[2] ČECH, Radek** - KOSEK, Pavel - NAVRÁTILOVÁ, Olga - MAČUTEK, Ján. Development of the word order of the reflexive enclitic sě/se dependent on a finite verb in Czech translations of the Gospel of Matthew from the 14th to the 21st century. In Journal of Historical Linquistic, 2024, vol. 14, iss. 3, pp. 385-426. ISSN 2210-2116. Dostupné na: https://doi.org/10.1075/jhl.21029.cec

[3] XIYNING, Chen - KUBÁT, Miroslav - MAČUTEK, Ján. Directions of Dependency Structures in the Czech National Corpus SYN2020: Application to Genre Classification. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 1.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 219-228. ISBN 978-2-39061-471-5.

[4] NOGOLOVÁ, Michaela - MAČUTEK, Ján - KUBÁT, Miroslav. What can be heard in the Czech Parliament. In Proceedings of JADT 2024 - 17th International Conference on Statistical Analysis of Textual Data. Volume 2.Mots comptes, textes dechiffres. - Leuven, Belgium : Presses universitaires de Louvain, 2024, p. 673-682. ISBN 978-2-39061-473-9.

[5] KOŠČ, Ivan - STOLÁRIK, Peter - KOŠČOVÁ, Michaela - MOKRÁ, Jana. Moderné technické riešenia riadenia Schengenských hraníc. In Dvadsať rokov členstva Slovenskej republiky v Európskej únii. Prínosy, výzvy, očakávania. : Zborník príspevkov. - Bratislava : Akadémia Policajného zboru, 2024, 2024, s. 213-222. ISBN 978-80-8293-035-4.

[6] KOŠČ, Ivan - KOŠČOVÁ, Michaela - STOLÁRIK, Peter - MOKRÁ, Jana. Modern technical solutions for border control (Mobile, Data, Collection and Analysis Center). In Határrendészeti tanulmányok, 2024, vol. 21, no. 4, p. 105-117. ISSN 2061-3997.

[7] KOŠČ, Ivan - KOŠČOVÁ, Michaela. Štatistická analýza textu pre potreby policajnej praxe. In Quo vadis Schengen? : Zborník. - Bratislava : Akadémia Policajného zboru, 2023, 2023, s. 41-57. ISBN 978-80-8054-994-7.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

AAA01 LÜCK, Wolfgang - MACKO, Tibor. Surgery Theory : Foundations. With contributions by Diarmuid Crowley. Cham : Springer Nature Switzerland AG, 2024. 956 p. Grundlehren der mathematischen Wissenschaften. A Series of Comprehensive Studies in Mathematics, Volume 362. Dostupné na: https://doi.org/10.1007/978-3-031-56334-8. ISBN 978-3-031-56333-1. ISSN 0072-7830

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 AL-OUSHOUSH, Nizar Kh.** - AZAR, Laith E. - AWWAD, Essam - KRNIC, Mario - SAIED, Ahmed I.. Some new dynamic inequalities for B-monotone functions with respect to time scales nabla calculus. In Journal of Inequalities and Applications, 2024, vol. 2024, art. nr. 122. (2023: 1.5 - IF, Q1 - JCR, 0.448 - SJR, Q2 - SJR). ISSN 1029-242X. Dostupné na: https://doi.org/10.1186/s13660-024-03202-5

ADCA02 ALI, Muhammad Aamir - LIU, Wei** - FURUICHI, Shigeru - FEČKAN, Michal**. Improved Hermite-Hadamard Inequality Bounds for Riemann-Liouville Fractional Integrals via Jensen´s Inequality. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 547. (2023: 3.6 - IF, Q1 - JCR, 0.645 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: https://doi.org/10.3390/fractalfract8090547 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA03 ANTONI, Ľubomír** - ELIAŠ, Peter - GUNIŠ, Ján - KOTLÁROVÁ, Dominika - KRAJČI, Stanislav - KRÍDLO, Ondrej - SOKOL, Pavol - ŠNAJDER, Ľubomír. Bimorphisms and attribute implications in heterogeneous formal contexts. In International Journal of Approximate Reasoning, 2024, vol. 172, art. nr. 109245. (2023: 3.2 - IF, Q2 - JCR, 0.877 - SJR, Q1 - SJR). ISSN 0888-613X. Dostupné na: https://doi.org/10.1016/j.ijar.2024.109245 (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0097/20 : Algebrické a topologické aspekty agregačných funkcií)

ADCA04 AWWAD, Essam** - SAIED, Ahmed I.. Some weighted dynamic inequalities of Hardy type with kernels on time scales nabla calculus. In Journal of Mathematical Inequalities, 2024, vol. 18, no. 2, p. 457-475. (2023: 1.1 - IF, Q1 - JCR, 0.426 - SJR, Q3 - SJR). ISSN 1846-579X. Dostupné na: https://doi.org/10.7153/jmi-2024-18-25

ADCA05 BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations. In Journal of differential equations, 2024, vol. 400, p. 314-375. (2023: 2.4 - IF, Q1 - JCR, 2.046 - SJR, Q1 - SJR). ISSN 0022-0396. Dostupné na: https://doi.org/10.1016/j.jde.2024.04.022 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA06 BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. Heteroclinic solutions in singularly perturbed discontinuous differential equations: a non-generic case. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 27, p. 1-30. (2023: 1.1 - IF, Q1 - JCR, 0.478 - SJR, Q2 - SJR). ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.27 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA07 BATTELLI, Flaviano - FEČKAN, Michal - WANG, JinRong. On Existence of Heteroclinic Connections in Discontinuous Kurland-Levi Differential Equations with Slowly Varying Coefficients. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 16, art. nr. 2450208, 33 p. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424502080 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA08 BATTELLI, Flaviano - FEČKAN, Michal. Periodic Solutions in Slowly Varying Discontinuous Differential Equations: A Non-Generic Case. In Journal of Dynamics and Differential Equations, 2024, vol. 36, pp. 463-496. (2023: 1.4 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR). ISSN 1040-7294. Dostupné na: https://doi.org/10.1007/s10884-022-10155-0 (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov)

ADCA09 BENEŠ, V. - SVÍTEK, Miroslav - MICHALÍKOVÁ, Alžbeta - MELICHERČÍK, M. Situation model of the transport, transport emissions and meteorological conditions. In Neural network world : international journal on non-standard computing and artificial intelligence, 2024, vol. 34, no. 1, p. 27-36. (2023: 0.7 - IF, Q4 - JCR, 0.251 - SJR, Q4 - SJR). ISSN 1210-0552. Dostupné na: https://doi.org/10.14311/NNW.2024.34.002

ADCA10 ČUNDERLÍKOVÁ, Katarína. On Another Type of Convergence for Intuitionistic Fuzzy Observables. In Mathematics, 2024, vol. 12, iss. 1, art. no. 127. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12010127 (VEGA 2/0122/23 : Viachodnotové modely neurčitosti)

ADCA11 DANCA, Marius-F.** - FEČKAN, Michal. Memory Principle of the MATLAB Code for Lyapunov Exponents of Fractional-Order. In International Journal of Bifurcation and Chaos, 2024, vol. 34, no. 12, art. nr. 2450156, p. 1-11. (2023: 1.9 - IF, Q2 - JCR, 0.57 - SJR, Q1 - SJR). ISSN 0218-1274. Dostupné na: https://doi.org/10.1142/S0218127424501566 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA12 DILNA, Natália** - FEKETE, Gusztáv - LANGEROVÁ, Martina - TÓTH, Balázs. Ulam-Hyers and Generalized Ulam-Hyers Stability of Fractional Differential Equations with Deviating Arguments. In Mathematics, 2024, vol. 12, no. 21, art. nr. 3418. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12213418 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA13 DOBREV, Stefan - NARAYANAN, Lata - OPATRNY, Jaroslav - PANKRATOV, Denis. Exploration of High-Dimensional Grids by Finite State Machines. In Algorithmica, 2024, vol. 86, no. 5, p. 1700-1729. (2023: 0.9 - IF, Q3 - JCR, 0.905 - SJR, Q1 - SJR). ISSN 0178-4617. Dostupné na: https://doi.org/10.1007/s00453-024-01207-6

ADCA14 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid**. MV-algebras and their corresponding Bézout domains. In Communications in Algebra, 2024, vol. 52, no. 12, p. 5165-5179. (2023: 0.6 - IF, Q3 - JCR, 0.619 - SJR, Q2 - SJR). ISSN 0092-7872. Dostupné na: https://doi.org/10.1080/00927872.2024.2367165 (APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti)

ADCA15 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid - SHENAVAEI, M. - BORZOOEI, R.A.**. n-roots on MV-algebras. In Fuzzy Sets and Systems, 2024, vol. 484, art. no. 108930. (2023: 3.2 - IF, Q1 - JCR, 1.009 - SJR, Q1 - SJR). ISSN 0165-0114. Dostupné na: https://doi.org/10.1016/j.fss.2024.108930 (APVV-20-0069 :

Pravdepodobnostné, algebraické a kvantovo-mechanické metódy. VEGA 2/0142/20 : Matematické modely neklasických javov a neurčitosti)

ADCA16 FEČKAN, Michal - DANCA, Marius-F. - CHEN, Guanrong. Fractional Differential Equations with Impulsive Effects. In Fractal and Fractional, 2024, vol. 8, no. 9, art. nr. 500. (2023: 3.6 - IF, Q1 - JCR, 0.645 - SJR, Q2 - SJR). ISSN 2504-3110. Dostupné na: https://doi.org/10.3390/fractalfract8090500 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA17 HALAŠ, Radomír - PÓCS, Jozef. On zero-divisor graphs of infinite posets. In Soft Computing, 2024, vol. 28, p. 12113-12118. (2023: 3.1 - IF, Q2 - JCR, 0.81 - SJR, Q2 - SJR). ISSN 1432-7643. Dostupné na: https://doi.org/10.1007/s00500-024-09958-8 (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií. APVV-20-0069 : Pravdepodobnostné, algebraické a kvantovo-mechanické metódy)

ADCA18 HALUŠKOVÁ, Emília - SCHWARTZOVÁ, Radka**. On discrete properties of Bernoulli shift. In International Journal of Geometric Methods in Modern Physics, 2024, vol. 21, no. 8, art. nr. 2450160, 14 p. (2023: 2.1 - IF, Q2 - JCR, 0.467 - SJR, Q2 - SJR). ISSN 0219-8878. Dostupné na: https://doi.org/10.1142/S0219887824501603 (VEGA 2/0104/24 : Nové perspektívy a aplikácie vo výskume agregačných funkcií)

ADCA19 HASIL, Petr - POSPÍŠIL, Michal** - POSPÍŠILOVÁ ŠKRIPKOVÁ, Lucia - VESELÝ, Michal. Note on oscillation of neutral differential equations with multiple delays. In Electronic Journal of Qualitative Theory of Differential Equations, 2024, vol. 39, p. 1-18. (2023: 1.1 - IF, Q1 - JCR, 0.478 - SJR, Q2 - SJR). ISSN 1417-3875. Dostupné na: https://doi.org/10.14232/ejqtde.2024.1.39 (VEGA 2/0062/24 : Kvalitatívne vlastnosti a oscilácie diferenciálnych rovníc a dynamických systémov)

ADCA20 HASIL, Petr - POSPÍŠIL, Michal - ŠIŠOLÁKOVÁ, Jiřina - VESELÝ, Michal**. Oscillation criterion for linear equations with coefficients containing powers of natural logarithm. In Monatshefte für Mathematik, 2024, vol. 203, p. 91-109. (2023: 0.8 - IF, Q2 - JCR, 0.627 - SJR, Q2 - SJR). ISSN 0026-9255. Dostupné na: https://doi.org/10.1007/s00605-023-01910-6 (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov)

ADCA21 HIAI, Fumio - JENČOVÁ, Anna. α-z-Rényi Divergences in von Neumann Algebras: Data Processing Inequality, Reversibility, and Monotonicity Properties in α, z. In Communications in Mathematical Physics, 2024, vol. 405, art. nr. 271. (2023: 2.2 - IF, Q1 - JCR, 1.612 - SJR, Q1 - SJR). ISSN 0010-3616. Dostupné na: https://doi.org/10.1007/s00220-024-05124-1

ADCA22 HOLÁ, Ľubica. Ascoli-Type Theorem for Baire 1 Functions. In Mathematics, 2023, vol. 11, no. 17, art. nr. 3694. (2022: 2.4 - IF, Q1 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math11173694 (Topologické štruktúry a priestory funkcií : APVV-20-0045. VEGA 2/0048/21 : Topologické štruktúry na priestoroch funkcií)

ADCA23 CHARVÁTOVÁ CAMPBELL, A.** - GERŠLOVÁ, Z. - ŠINDLÁŘ, V. - ŠLESINGER, R. - WIMMER, Gejza. New framework for nanoindentation curve fitting and measurement uncertainty estimation. In Precision Engineering : journal of the international societies for precision engineering and nanotechnology, 2024, vol. 85, p. 166-173. (2023: 3.5 - IF, Q1 - JCR, 0.902 - SJR, Q1 - SJR). ISSN 0141-6359. Dostupné na: https://doi.org/10.1016/j.precisioneng.2023.10.001

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Dostupné na: https://doi.org/10.1007/s00605-023-01868-5 (VEGA 2/0127/20 : Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov)

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AEC07 ČEVOROVÁ, Kristína - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter - PALMOVSKÝ, M. - ŠEBEJ, J. Operations on Automata with All States Final. In Proceedings 14th International Conference on Automata and Formal Languages (AFL 2014): Szeged, Hungary, May 27-29, 2014. EPTCS, vol. 151. - Szeged, Hungary : http://dx.doi.org/10.4204/EPTCS.151, 2014, p. 201-215. ISSN 2075-2180.

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AEC08 DOBREV, Stefan - KRÁLOVIČ, R. - PARDUBSKÁ, D. How much information about the future is needed? In SOFSEM 2008: Theory and Practice of Computer Science, Vol. 4910. - Heidelberg : Springer, 2008. ISBN 978-3-540-77565-2.

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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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1. [1.1] DOLCE, Francesco - TAHAY, Pierre-Adrien. Column Representation of Sturmian Words in Cellular Automata. In DEVELOPMENTS IN LANGUAGE THEORY (DLT 2022), 2022, vol. 13257, no., pp. 127-138. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-05578-2_10, Registrované v: WOS
2. [1.1] DURAN, Alexis Garcia - SOTO, Jose Manuel Gomez. Real-time Generation of Positive Integer Geometric Sequences by One-Dimensional Cellular Automata. In JOURNAL OF CELLULAR AUTOMATA, 2023, vol. 17, no. 3-4, pp. 281-338. ISSN 1557-5969., Registrované v: WOS
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AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 MAČUTEK, Ján - ČECH, Radek - COURTIN, Marine. The Menzerath-Altmann law in syntactic structure revisited: Combining linearity of language with dependency syntax. In Second Workshop on Quantitative Syntax.Proceedings. Rec. Chiara

Alzetta, Aditya Bhargava. - Stroudsburg, USA : The Association for Computational Linguistics, 2021, p. 65-73. ISBN 978-1-955917-15-5.

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1. [1.1] MILICKA, Jiri. Menzerath';s law: Is it just regression toward the mean? In GLOTTOMETRICS, 2023, vol. 55, no., pp. 1-16. ISSN 1617-8351. Dostupné na: https://doi.org/10.53482/2023_55_409, Registrované v: WOS

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

GII01 FEČKAN, Michal - DANCA, Marius-F.**. Stability, Periodicity, and Related Problems in Fractional-Order Systems : Editorial. In Mathematics, 2022, vol. 10, art. no. 2040. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math10122040

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1. [1.1] YAN, F. - HOU, X.R. - TIAN, T.T. Fractional-Order Multivariable Adaptive Control Based on a Nonlinear Scalar Update Law. In MATHEMATICS. SEP 2022, vol. 10, no. 18. Dostupné na: https://doi.org/10.3390/math10183385, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

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

doc. Mgr. Tibor Macko, PhD.
Názov semestr. predmetu: Algebraická topológia
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.
Názov semestr. predmetu: Diferenciálna topológia
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.
Názov semestr. predmetu: Lineárna algebra a geometria 1
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. Mgr. Tibor Macko, PhD.
Názov semestr. predmetu: Lineárna algebra a geometria 2
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KAG

doc. RNDr. Karol Nemoga, CSc.
Názov semestr. predmetu: Logika
Počet hodín za semester: 26
Názov katedry a vysokej školy: 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

Mgr. Branislav Novotný, PhD.
Názov semestr. predmetu: Štatistika 1
Počet hodín za semester: 32
Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

Mgr. Branislav Novotný, PhD.
Názov semestr. predmetu: Štatistika 2
Počet hodín za semester: 32
Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Pedagogická Fakulta

RNDr. Jozef Pócs, PhD.
Názov semestr. predmetu: Logika a teorie množin
Počet hodín za semester: 39
Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Jozef Pócs, PhD.
Názov semestr. predmetu: Teorie grafů
Počet hodín za semester: 39
Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra algebry a geometrie

RNDr. Michal Pospíšil, PhD.
Názov semestr. predmetu: Topológia
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.
Názov semestr. predmetu: Analýza a zložitosť algoritmov
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

Mgr. Martin Bečka, PhD.
Názov semestr. predmetu: Dátové štruktúry a algoritmy
Počet hodín za semester: 48
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav informatiky a matematiky

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

Mgr. Branislav Novotný, PhD.
Názov semestr. predmetu: Aplikovaná štatistika + Finančná Matematika
Počet hodín za semester: 72
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Branislav Novotný, PhD.
Názov semestr. predmetu: Aplikovaná štatistika + Matematika 2
Počet hodín za semester: 72
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta Managementu

Mgr. Viktor Olejár
Názov semestr. predmetu: Klasické a kvantové výpočty
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

Mgr. Viktor Olejár
Názov semestr. predmetu: Programovanie, algoritmy, zložitosť
Počet hodín za semester: 52
Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav informatiky

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

RNDr. Michal Pospíšil, PhD.
Názov semestr. predmetu: Základy matematiky (3)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Semináre:

RNDr. Michal Pospíšil, PhD.
Názov semestr. predmetu: Proseminár z TEX-u
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KMANM

Terénne cvičenia:

Individuálne prednášky:

Príloha A-5

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	4
Česko					Ján Mačutek	6
					Karol Nemoga	2
Francúzsko					Jana Valigurská	15
Kanada					Stefan Dobrev	19
Katar					Ján Mačutek	6
Maďarsko					Anna Jenčová	5
Nórsko					Ján Mačutek	4
					Karol Nemoga	5
Poľsko					Ján Mačutek	6
Portugalsko					Viktor Olejár	250
Rakúsko					Gabriel Okša	6
USA					Galina Jirásková	9
Počet vyslaní spolu					**13**	**337**

(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**
Maďarsko					Gusztáv Fekete	90
Rakúsko					Camillo Breiling	2
					Emmerich Kelih	1
Uzbekistan					Aygul Babadjanova	28
Počet prijatí spolu					**4**	**121**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	JADT 2024	Ján Mačutek	5
Bulharsko	ICIFS 2024	Katarína Čunderlíková	8
	NDATES 2024	Martina Langerová	7
Česko	AAA105	Emília Halušková	4
	CSGT24	Roman Nedela	5
	HOMONOLO 2024	Roman Nedela	5
	IWCCL2024	Ján Mačutek	3
	PPAM 2024	Martin Bečka	4
		Gabriel Okša	4
	SSAOS 2024	Emília Halušková	6
		Jozef Pócs	6
Egypt	ICMA24	Ahmed Ibrahim Mohamed Mahmoud Abo Saied	12
Francúzsko	ICFDA 2024	Natália Dilna	7
Japonsko	CIAA 2024	Galina Jirásková	10
		Viktor Olejár	10
Maďarsko	Focused 2024	Anna Jenčová	7
Nemecko	IMEKO 2024	Gejza Wimmer	5
Nigéria	ASC1st-2024	Friday Ikechukwu Agu	5
Poľsko	InsRA-II	Ľubica Holá	8
		Branislav Novotný	8
Srbsko	ATA 2024	Ľubica Holá	7
		Branislav Novotný	7
Španielsko	BIRS2024	Anna Jenčová	6
	NATO Workshop SCQT 2024	Karol Nemoga	3
Švédsko	EQUADIFF 2024	Natália Dilna	5
Spolu	**20**	**25**	**157**

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

Skratky použité v tabuľke C:

AAA105 - 105. Arbeitstagung Allgemeine Algebra
ASC1st-2024 - The 1st Annual Statistical Conference and the 1 st Pre-Conference Workshop
ATA 2024 - Analysis, Topology and Applications 2024
BIRS2024 - BIRS-IMAG Workshops 2024 - Towards Infinite Dimension and Beyond in Quantum Information
CIAA 2024 - The 28th International Conference on Implementation and Application of Automata
CSGT24 - The 59th Czech-Slovak Conference on Graph Theory 2024
EQUADIFF 2024 - The Equadiff conference 2024
Focused 2024 - Focused Workshop on Quantum Rényi Divergences
HOMONOLO 2024 - Workshop HOMONOLO 2024
ICFDA 2024 - 12th IFAC Conference on Fractional Differentiation and its Applications
ICIFS 2024 - The 27th International Conference on Intuitionistic Fuzzy Sets
ICMA24 - The 6th International Conference for Mathematics & Its Applications (ICMA24): Artificial Intelligent and Computational Mathematics
IMEKO 2024 - XXIV IMEKO World Congress
InsRA-II - Inspirations in Real Analysis II
IWCCL2024 - International Workshop on Corpus and Computational Linguistics
JADT 2024 - 17es Journées internationales d'Analyse statistique des Données Textuelles
NATO Workshop SCQT 2024 - Workshop NATO “Secure Communication via Classical and Quantum Technologies”

NDATES 2024 - The 11th International Conference New Trends in the Applications of Differential Equations in Sciences
PPAM 2024 - 15th International Conference on Parallel Processing and Applied Mathematics
SSAOS 2024 - Summer School on General Algebra and Ordered Sets 2024

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
doc. RNDr. Rudolf Hajossy, CSc.		PB	Exponenciála a trvanie imunity po prekonaní COVIDu-19 (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.)	MÚ SAV, Bratislava	12.11.2024
RNDr. Emília Halušková, CSc.		PB	O štvorci a guli	ZŠ J. D. Matejovie, Liptovský Hrádok	11.11.2024
RNDr. Emília Halušková, CSc.		PB	O štvorci a guli	ZŠ Komenského, Svit	15.11.2024
RNDr. Emília Halušková, CSc.		PB	O štvorci a guli	ZŠ s MŠ Liptovský Ján	15.11.2024
RNDr. Emília Halušková, CSc.		PB	O štvorci a guli	ZŠ s MŠ Okoličné	12.11.2024
RNDr. Emília Halušková, CSc.		PB	Rozprávka s tangramom - geometria pre deti netradične	MÚ SAV, Košice, DOD	14.11.2024
RNDr. Emília Halušková, CSc.		PB	Veľké čísla okolo nás	Liptovský Ján, denný detský tábor ECAV	9.7.2024
RNDr. Emília Halušková, CSc.		iné	Vianoce s tangramom	SZŠ pre žiakov s autizmom, Juhoslovanská 2, Košice	13.12.2024
RNDr. Galina Jirásková, CSc.		PB	Formálne jazyky a magické čísla	Matematický piatok, Slezská univerzita, Opava	13.12.2024
doc. Mgr. Ján Mačutek, PhD.		TV	účasť v diskusii RTVS "Prečo je matematika nenahraditeľná"	https://www.rtvs.sk/televizia/archiv/15289/472004	5.6.2024
Ing. Igor Mračka, PhD.		PB	Po stopách obchodného cestujúceho (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.)	MÚ SAV, Bratislava	12.11.2024
doc. RNDr. Karol Nemoga, CSc.		PB	SAVinci Sú naše peniaze v bezpečí. Minulosť a súčasnosť kryptológie.	KC Bratislava	3.6.2024
doc. RNDr. Karol Nemoga, CSc.		PB	Vedecká kaviareň Košice - Matematika – Strašiak? – Zábavka? – Pomôcka?	Košice	30.10.2024
doc. Ing. Gabriel Okša, CSc.		PB	Ako matematika pomáha zvyšovať bezpečnosť jadrových elektrární? (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.)	MÚ SAV, Bratislava	12.11.2024
Mgr. Andrea		PB	Fígle s fúznymi	MÚ SAV, Bratislava	12.11.2024

Zemánková, DrSc.			funkciami (prednáška v rámci Dňa otvorených dverí MÚ SAV, v. v. i.)		
Mgr. Peter Mlynárčik, PhD.		PB	Niekoľko poznámok k výrokovej logike	Matematický ústav, detašované pracovisko Košice	1
Mgr. Peter Mlynárčik, PhD.		PB	Niekoľko poznámok k výrokovej logike	Matematický ústav, Slezská univerzita, Opava, Česká republika	1
Mgr. Peter Mlynárčik, PhD.		PB	Škriatkovia, čarodejník a klobúky	LŠ Pytagoras/ Hronec (okres Brezno)	1
Mgr. Viktor Olejár		PB	Classes Without Frontiers - cyklus prednášok na stredných školách v Porte	Porto, Portugalsko	2

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

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024

Domáce ocenenia

Ocenenia SAV

Hospodár Michal
Súťaž mladých vedeckých pracovníkov SAV do 35 rokov (3. miesto v I. oddelení vied)
Oceňovateľ: predseda SAV
Opis: Dňa 13.6.2024 som prezentoval výber svojich prác na tému "Zložitosť operácií v podtriedach regulárnych jazykov" počas seminára na Watsonovej 47 v Košiciach. Tento výber bol hodnotený komisiou SAV na seminári dňa 30.4.2024 v Bratislave a umiestnil sa na 3. mieste zo 7 prezentovaných prác.

Wimmer Gejza
Medaila SAV za podporu vedy
Oceňovateľ: SAV

Iné domáce ocenenia

Dvurečenskij Anatolij
Cena mesta Kysucké Nové Mesto za rok 2024
Oceňovateľ: Mesto Kysucké Nové Mesto
Opis: Cena za osobitný a celoživotný významný prínos na poli vedeckej a publikačnej činnosti

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.