

Matematický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2020**

verzia 2
2. 2. 2020

Bratislava
január 2021

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Matematický ústav SAV

Riaditeľ: doc. RNDr. Karol Nemoga, CSc.

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

Vedecký tajomník: Mgr. Marek Hyčko, PhD.

Predseda vedeckej rady: Mgr. Anna Jenčová, DrSc.

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

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:** Rozpočtová od roku 1959**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	75	46	29	6	1	66	43.41	29.74	1.43
Vedeckí pracovníci	55	42	13	4	1	48	29.59	29.13	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	3	2	1	2	0	3	0.59	0.26	0.83
Odborní pracovníci VŠ (ostatní zamestnanci ²)	4	1	3	0	0	2	3.19	0	0
Odborní pracovníci ÚS	9	0	9	0	0	9	7.79	0.35	0.6
Ostatní pracovníci	4	1	3	0	0	4	2.25	0	0

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2020 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

F – fyzický stav zamestnancov k 31.12.2020 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

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 administratívne, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2020)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	33	8	15	9	13	20
Ženy	3	11	0	2	3	3	7

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	1	1.0	2	1.0	2	1.2	6	3.5	4	2.4	3	2.1	4	2.0	4	3.0	9	6.3
Ženy	1	0.1	0	0.0	2	1.8	4	2.6	2	1.0	1	1.0	1	1.0	1	1.0	2	1.1

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2020

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	52.8	53.5	54.7
Ženy	51.8	50.5	49.9
Spolu	52.4	52.8	53.3

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

Na základe vnútorného akademického hodnotenia ústavov za r. 2019 Matematický ústav SAV patril aj v r. 2020 medzi najlepšie hodnotené ústavy v SAV vďaka výbornej publikačnej aktivite MÚ SAV.

Na ústave prebehli úspešne koncom augusta 2020 dve obhajoby dizertačných prác Mgr. Dušany Štiberovej, PhD. a Mgr. Ivany Krajňákovéj, PhD.

Kvôli epidémii Covid 19 sme rámci Týždňa vedy nemali 12. ročník Dňa otvorených dverí. Namiesto toho sme inštalovali v priestore MÚ SAV v Bratislave galériu portrétov slovenských a českých matematikov, ktoré nakreslila naša dnes už nebohá kolegyňa Dr. Kvetka Dvořáková.

Portréty možno tiež vidieť na adrese:

https://www.mat.savba.sk/galeria_matematikov-KD.html.

V r. 2016 Mgr. Andrea Zemánková, PhD., ktorá získala prestížny štipendijný program Štipendium SAV pre mladých odborníkov, bola na predĺženej rodičovskej dovolenke, z ktorej sa vrátila v závere r. 2019 a v r. 2020 úspešne v ňom pokračovala. Toto štipendium získali vtedy len traja pracovníci SAV. Nedávno úspešne predstavila najnovšie výsledky na predsedníctve SAV.

V r. 2020 sme pokračovali, hoci v obmedzenej miere kvôli epidemickej situácii v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu. Za obmedzených podmienok pôsobili dvaja študenti na ústave, jeden v Bratislave a druhý v Košiciach.

Časopisu Mathematica Slovaca sa zvýšil impaktový faktor na IF(2019)=0,654, päťročný impakt faktor 0,545 a je v 3. kvartile v sekcii matematika. V databáze Scopus má časopis zvýšený

SJR=0,397 (Scimago Journal Ranking), Cite Score = 0.9 a je v 3. kvartile. Počet zaslaných článkov v r. 2020 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,214 (Scimago Journal Ranking), Cite Score = 0.7 a je v 3. kvartile.

Na jeseň 2020 prof. RNDr. Michal Fečkan, DrSc., ktorý je aj našim pracovníkom, sa stal finalistom súťaže ESET Science Award.

V priebehu roka prebiehala kontrola riešenia a výsledkov dvoch projektov OP ŠF: 313011T683 - Matematická podpora kvantových technológií, 313011T634 - Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov. Granty boli schválené koncom r. 2019. Vzhľadom na úspešne prebiehajúcu kontrolu a preverovanie splnenia cieľov boli ústavu refundované už čiastočne prostriedky vynaložené na riešenie vo výške uvedenej v tabuľkách o hospodárení organizácie.

Bohužiaľ, od začiatku marca 2020 celá spoločnosť bola zasiahnutá epidémiou Covid 19, teda aj Matematický ústav SAV, a museli sa rešpektovať protiepidemiologické opatrenia. Preto sa nekonali konferencie, semináre, obhajoby prezenčnou formou, ale sa prešlo do on-line priestoru, mnohí pracovníci podľa potreby využívali tzv. home office.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2020

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	10	3	57 827	57 827	-	-	4 062	-
2. Projekty APVV	1	7	-	-	38 059	31 907	-	26 806
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2020

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2020	-	6	2
2. Projekty výziev OP ŠF podané r. 2020	Bratislava	-	-
	Regióny	2	-

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2020

Tabuľka 2c Medzinárodné projekty riešené v roku 2020

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty 7. RP EÚ a Horizont 2020	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	-	20 000
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	1	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)	0	0	-	-	-	-	-	-
9. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2020

Tabuľka 2d Počet projektov Horizont 2020 v roku 2020

	A	B
Počet podaných projektov Horizont 2020		

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

NFP313010ATV5 - Modelovanie šírenia COVID-19 a iných infekčných respiračných ochorení pri aplikovaní rôznych epidemiologických opatrení v podmienkach Slovenska.

Hlavný riešiteľ Matematický ústav SAV, spolu s organizáciami

- Fyzikálny ústav SAV,
- Geografický ústav SAV,
- Sociologický ústav SAV.

NFP313010ASS9 - Využitie konceptu digitálneho dvojčata v manažmente zdravotného stavu rizikových tehotných žien za účelom prevencie nákazy koronavírusom SARS-CoV-2

Hlavný riešiteľ Matematický ústav SAV, spolu s organizáciami

- Centrum experimentálnej medicíny SAV,
- Slovenská technická univerzita a
- Trnavská univerzita v Trnave.

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

Charakterizácia n-uninoriem so spojitými pridruženými funkciami a zavedenie z-ordinálneho súčtu.

Kľúčovým výsledkom nášho výskumu bolo zavedenie konštrukcie pomocou z-ordinálnych súčtov pre čiastočne usporiadanú množinu pologrúp, ktorá rozširuje Cliffordov ordinálny súčet lineárne usporiadanej množiny pologrúp. Pomocou tejto konštrukcie sa nám podarilo kompletne charakterizovať n-uninormy so spojitými pridruženými funkciami. V postupných krokoch sme ukázali súvis takýto n-uninoriem (najsôr pre idempotentné a potom všeobecne) s čiastočnými usporiadaniami na jednotkovom intervale, ktoré majú štruktúru (binárneho) stromu. Pomocou tohto usporiadania sme potom ukázali, že každá n-uninorma so spojitými pridruženými funkciami sa dá vyjadriť ako z-ordinálny súčet spočítateľného počtu pologrúp odvodených od spojitých Archimedovských a idempotentných t-noriem, t-konoriem a uninoriem, vzhľadom na množinu A, ktorá zodpovedá deliacim bodom $z_1, \dots, z_{n-1}$. Tiež sme ukázali, že množina bodov nespojitosti takejto n-uninormy je pokrytá grafmi jej charakterizujúcich multi-funkcií a skúmali sme ich ďalšie vlastnosti.

Autor: A. Zemánková (MÚ SAV),

Projekty: VEGA 1/0006/19, APVV-16-0073 a Program Štipendium SAV.

Referencie:

1. A. Mesiarová-Zemánková, *The n -uninorms with continuous underlying t -norms and t -conorms*, International Journal of General Systems. doi: [10.1080/03081079.2020.1863395](https://doi.org/10.1080/03081079.2020.1863395)
2. A. Mesiarová-Zemánková, *Characterization of idempotent n -uninorms*, Fuzzy Sets and Systems. doi: [10.1016/j.fss.2020.12.019](https://doi.org/10.1016/j.fss.2020.12.019)
3. A. Mesiarová-Zemánková, *Characterizing functions of n -uninorms with continuous underlying functions*, IEEE Transactions on Fuzzy Systems, zaslané.
4. A. Mesiarová-Zemánková, *Characterization of n -uninorms with continuous underlying functions via z -ordinal sum construction*, International Journal of Approximate Reasoning, zaslané.

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Characterization of n -uninorms with continuous underlying functions and introduction of z -ordinal sum.

The most important result was the introduction of the z -ordinal sum construction based on a partially ordered set of semigroups, which extends the Clifford's ordinal sum based on a linearly ordered set of semigroups. Using this construction we were able to completely characterize n -uninorms with continuous underlying functions. In successive steps we have shown the connection between these n -uninorms (first for idempotent and then also in general) and partial orders on the unit interval, which have the structure of a (binary) tree. Using this partial order we have shown that each n -uninorm with continuous underlying functions can be expressed as a z -ordinal sum of a countable number of semigroups related to continuous Archimedean and idempotent t -norms, t -conorms and uninorms, with respect to the set A , which corresponds to the division points $z_1, \dots, z_{n-1}$. We have also shown that the set of points of discontinuity of such an n -uninorm is covered by graphs of its characterizing set-valued functions and we have discussed their properties.

Author: A. Zemánková (MÚ SAV),

Projects: VEGA 1/0006/19, APVV-16-0073 and Program Fellowship of SAS.

References:

1. A. Mesiarová-Zemánková, *The n -uninorms with continuous underlying t -norms and t -conorms*, International Journal of General Systems. doi: [10.1080/03081079.2020.1863395](https://doi.org/10.1080/03081079.2020.1863395)
2. A. Mesiarová-Zemánková, *Characterization of idempotent n -uninorms*, Fuzzy Sets and Systems. doi: [10.1016/j.fss.2020.12.019](https://doi.org/10.1016/j.fss.2020.12.019)
3. A. Mesiarová-Zemánková, *Characterizing functions of n -uninorms with continuous underlying functions*, IEEE Transactions on Fuzzy Systems, submitted.
4. A. Mesiarová-Zemánková, *Characterization of n -uninorms with continuous underlying functions via z -ordinal sum construction*, International Journal of Approximate Reasoning, submitted.

Kedy je priestor minimálnych usco/cusco zobrazení topologický vektorový priestor.

Definovali sme vektorovú štruktúru na priestore minimálnych usco (resp. cusco) zobrazení z Bairovho priestoru X do Stegallovho lokálne konvexného priestoru Y . Dokázali sme, že pre bornológiu B na X s otvorenou bázou priestor ohraničených minimálnych usco (resp. cusco) zobrazení vybavených topológiou rovnomernej konvergenzie na B je lokálne konvexný topologický

vektorový priestor. Keď X je lokálne kompaktný, potom priestor minimálnych usco (resp. cusco) zobrazení vybavených topológiou rovnomernej konverencie na kompaktoch je lokálne konvexný topologický vektorový priestor.

Autori: Ľ. Holá, B. Novotný

Projekt: VEGA 2/0006/16

Referencia: Ľ. Holá, B. Novotný, *When is the space of minimal usco/cusco maps a topological vector space*, J. Math. Anal. Appl. **489** (2020), artno. 124125.

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When is the space of minimal usco/cusco maps a topological vector space

We defined a vector structure on the space of minimal usco (resp. cusco) maps from a Baire space X to a Stegall locally convex space Y . We proved that for a bornology B on X with an open base the space of bounded minimal usco (resp. cusco) maps equipped with the topology of uniform convergence on B is a locally convex topological vector space. If X is locally compact, then the space of minimal usco (resp. cusco) maps from X to Y equipped with the topology of uniform convergence on compacta is a locally convex topological vector space.

Authors: Ľ. Holá, B. Novotný

Project: VEGA 2/0006/16

Reference: Ľ. Holá, B. Novotný, *When is the space of minimal usco/cusco maps a topological vector space*, J. Math. Anal. Appl. **489** (2020), artno. 124125

Deliteľné rozšírenie pravdepodobnosti

Načrtli sme prechod od klasického pravdepodobnostného priestoru (Ω, A, p) k jeho „deliteľnému“ rozšíreniu, kde σ -algebra A boolovských náhodných udalostí je rozšírená na triedu $M(A)$ všetkých merateľných funkcií do intervalu $[0,1]$ a σ -aditívna pravdepodobnostná miera p na A je rozšírená na pravdepodobnostný integrál $\int(\cdot)dp$ na $M(A)$. Výsledné rozšírenie priestoru (Ω, A, p) môže byť popísané ako epireflexia prenášajúca A na $M(A)$.

Prechod od A k $M(A)$ pripomína prechod od celých čísel k reálnymi číslam a je charakterizované rozšírením dvoj-hodnotovej boolovskej logiky na A na mnohohodnotovú Lukasiewiczovu logiku definovanú na $M(A)$ a každé pozitívne prirodzené číslo n sa rozšíri na u/n , čo je prvkom $M(A)$ a platí $\int(u/n)dp = (1/n) \int u dp$. Z kategoriálneho pohľadu, objekty z $M(A)$, morfizmy sú pozorovateľné z jedného objektu na druhý a slúžia ako kanál, v ktorom stochastická informácia sa prenáša.

Študovali sa združené náhodné experimenty a asymetrická stochastická závislosť/nezávislosť jednej zložky od druhej. Predstavili sme kanonickú konštrukciu podmienenej pravdepodobnosti, takže pozorovateľné môžu byť uvažované ako podmienené pravdepodobnosti. V práci boli predstavené rôzne zovšeobecnenia klasickej teórie pravdepodobnosti, ale hlavnou myšlienkou bolo zdôrazniť kategoriálny aspekt prechodu od klasickej pravdepodobnosti k deliteľnej pravdepodobnosti.

Autori: R. Frič, P. Eliaš, M. Papčo

Projekt: APVV-16-0073

Referencia: R. Frič, P. Eliaš, M. Papčo, *Divisible extension of probability*, Math. Slovaca **70** (2020), 1445–1456. doi: [10.1515/ms-2017-0441](https://doi.org/10.1515/ms-2017-0441)

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Divisible extension of probability

We outline the transition from classical probability space (Ω, A, p) to its “divisible” extension, where the σ -field A of Boolean random events is extended to the class $M(A)$ of all measurable functions into $[0,1]$ and the σ -additive probability measure p on A is extended to the probability integral $\int(\cdot)dp$ on $M(A)$. The resulting extension of (Ω, A, p) can be described as an epireflection reflecting A to $M(A)$ and p to $\int(\cdot)dp$.

The transition from A to $M(A)$, resembling the transition from whole numbers to real numbers, is characterized by the extension of two-valued Boolean logic on A to multivalued Lukasiewicz logic on $M(A)$ and the divisibility of random events: for each random event u is an element of $M(A)$ and each positive natural number n we have u/n is an element of $M(A)$ and $\int(u/n)dp = (1/n) \int u dp$. From the viewpoint of category theory, objects are of the form $M(A)$, morphisms are observables from one object into another one and serve as channels through which stochastic information is conveyed.

We study joint random experiments and asymmetrical stochastic dependence/independence of one constituent experiment on the other one. We present a canonical construction of conditional probability so that observables can be viewed as conditional probabilities.

In the present paper we utilize various published results related to "quantum and fuzzy" generalizations of the classical theory, but our ultimate goal is to stress mathematical (categorical) aspects of the transition from classical to what we call divisible probability.

Authors: R. Frič, P. Eliaš, M. Papčo

Project: APVV-16-0073

Reference: *Divisible extension of probability*, Math. Slovaca **70** (2020), 1445–1456. doi: [10.1515/ms-2017-0441](https://doi.org/10.1515/ms-2017-0441)

2.3.2. Aplikačný typ

Pokročilé štatistické a výpočtové metódy pre meranie a metrológiu

Bola navrhnutá neparametrická metóda a algoritmus na odhad rozdelenia pravdepodobnosti stochastického súčtu nezávislých identicky rozdelených spojitých náhodných premenných. Metóda je založená na kombinovaní a číselnom invertovaní asociovanej empirickej charakteristickej funkcie (CF) odvodennej z pozorovaných údajov. Motivujú to klasické problémy v oblasti riadenia finančných rizík, poisťno-matematickej vedy a hydrologického modelovania. Tento prístup je možné prirodzene zovšeobecniť na zložitejšie semiparametrické modelovanie a odhadovanie prístupov, napríklad začlenením zovšeobecnenej Paretovej distribúcie vhodnej na modelovanie ťažkých chvostov uvažovaných spojitých náhodných premenných alebo uvažovaním váženej zmesi parametrických CF (ak začleníme poznatky na základe pozorovaných alebo historických údajov). Navrhovaný numerický prístup je založený na kombinácii Gil-Pelaezových inverzných vzorcov na odvodenie rozdelenia pravdepodobnosti (hustoty, distribučnej funkcie) z pridruženej CF pomocou lichobežníkového kvadrátneho pravidla použitého na požadovanú numerickú integráciu. Predložená neparametrická metóda odhadu súvisí s bootstrapovým prístupom k odhadu, a teda zdieľa podobné vlastnosti. Aplikovateľnosť navrhovaného postupu odhadu je ilustrovaná na odhade agregovaného rozdelenia strát zo známych dánskych údajov o požiaroch udalostiach.

Autori: V. Witkovský (ÚM SAV), **G. Wimmer** (MÚ SAV), T. Duby (OAA Computing Ltd, Bicester, UK)

Projekty: APVV-15-0295, VEGA 2/0054/18

Referencia: V. Witkovský, G. Wimmer, T. Duby, *Estimating the distribution of a stochastic sum of IID random variables*, *Mathematica Slovaca*, **70** (2020), 759–774.

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Advanced statistical and computational methods for measurement and metrology

We suggested a non-parametric method and algorithm for estimating the probability distribution of a stochastic sum of independent identically distributed continuous random variables, based on combining and numerically inverting the associated empirical characteristic function (CF) derived from the observed data. This is motivated by classical problems in financial risk management, actuarial science, and hydrological modelling. This approach can be naturally generalized to more complex semi-parametric modelling and estimating approaches, e.g., by incorporating the generalized Pareto distribution fit for modelling heavy tails of the considered continuous random variables, or by considering the weighted mixture of the parametric CFs (used to incorporate the expert knowledge) and the empirical CFs (used to incorporate the knowledge based on the observed or historical data). The suggested numerical approach is based on combination of the Gil-Pelaez inversion formulae for deriving the probability distribution (PDF and CDF) from the associated CF and the trapezoidal quadrature rule used for the required numerical integration. The presented non-parametric estimation method is related to the bootstrap estimation approach, and thus, it shares similar properties. Applicability of the proposed estimation procedure is illustrated by estimating the aggregate loss distribution from the well-known Danish fire losses data.

Authors: V. Witkovský (IMS SAS), **G. Wimmer** (MI SAS), T. Duby (OAA Computing Ltd, Bicester, UK)

Projects: APVV-15-0295, VEGA 2/0054/18

Reference: V. Witkovský, G. Wimmer, T. Duby, *Estimating the distribution of a stochastic sum of IID random variables*, *Mathematica Slovaca*, **70** (2020), 759–774.

Analýza a modelovanie šírenia COVID-19

Vzhľadom na epidemiologickú situáciu v roku 2020 spôsobenú vírusom SARS-CoV2 sme pracovali na viacerých matematických modeloch vývoja tejto pandémie.

Prvý model je určený na sledovanie šírenia epidemiologických vln medzi rôznymi geografickými regiónmi (krajínami). Situácia v regióne a transport medzi regiónmi sú riadené lokálnymi epidemiologickými opatreniami. Tento model môže byť použitý na analýzu a návrh epidemiologických semaforov.

Druhý model je založený na agentovom prístupe a popisuje šírenie ochorenia COVID-19 v rámci jedného regiónu (napr. okres, kraj, celé územie Slovenska). Model zohľadňuje RT-PCR testovanie, dohľadávanie infikovaných a hromadné celoplošné testovanie pomocou rýchlych testov (napr. antigénových testov). Model je schopný rekonštruovať pozorovaný denný prírastok infikovaných, čo umožňuje kalibráciu modelu na základe dostupných informácií o prebiehajúcej pandémii. Okrem toho model umožňuje aj analýzu rôznych stratégií celoplošného testovania.

Autori: I. Mračka, T. Žáčik, J. Bogár, R. Hajossy, I. Odrobina, M. Hyčko (MÚ SAV) + multiodborové konzultácie s pracovníkmi iných ústavov SAV (GEO SAV, FÚ SAV, SÚ SAV, VÚ BMC SAV).

Projekt: Ústavný projekt.

Analysis and modelling of COVID-19 spreading

Due to the SARS-CoV2 epidemiological situation in 2020, we worked on several mathematical models of pandemic development.

The first model is designed to monitor the spread of epidemiological waves between different geographical regions (countries). The situation in the region and the transport between regions are governed by local epidemiological measures. The model can be used to analyze and design epidemiological semaphores.

The second model is based on an agent approach and describes the spread of COVID-19 within one region (e.g., district, province, the whole territory of Slovakia). The model takes into account RT-PCR testing, screening of infected and mass area-wide testing using rapid tests (e.g., antigen tests). The model is able to reconstruct the observed daily increment of infected, which allows the calibration of the model parameters. In addition, the model allows the analysis of various nationwide testing strategies.

Authors: I. Mračka, T. Žáčik, J. Bogár, R. Hajossy, I. Odrobina, M. Hyčko (MÚ SAV) + inter-institutional consultations with other colleagues of SAS (GEO SAV, FÚ SAV, SÚ SAV, VÚ BMC SAV).

Project: Institutional project.

2.3.3. Medzinárodné vedecké projekty

Rozsahy akceptačných stavových zložitostí jazykov, ktoré sú výsledkom niektorých operácií

Skúmame akceptačnú stavovú zložitost', definovanú ako najmenší počet akceptačných stavov deterministického konečného automatu, pre jazyky, ktoré sú výsledkom unárnych a binárnych operácií na jazykoch s akceptačnou stavovou zložitost'ou danou ako parameter. Je to pokračovanie práce [J. Dassow: On the number of accepting states of finite automata, J. Autom., Lang. Comb., 21, 2016]. Vyriešime väčšinu otvorených problémov tam spomenutých. Konkrétne uvažujeme operácie prieniku, symetrického rozdielu, pravého a ľavého kvocientu, zrkadlového obrazu a permutácie, kde dosiahneme presné rozsahy akceptačných stavových zložitostí. Taktiež uvažujeme symetrický rozdiel na unárnych konečných jazykoch, kde dostaneme nesúvislý rozsah akceptačných stavových zložitostí.

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

Projekty: VEGA 2/0132/19, APVV-15-0091, DAAD krátkodobý grant ID 57314022

Referencia: M. Holzer, M. Hospodár, *The ranges of accepting state complexities of languages resulting from some operations*, International Journal of Foundations of Computer Science, **31** no. 8 (2020), 1159–1177. doi: [10.1142/S0129054120420083](https://doi.org/10.1142/S0129054120420083)

The ranges of accepting state complexities of languages resulting from some operators

We examine the accepting state complexity, i.e., the minimal number of accepting states of deterministic finite automata for languages resulting from unary and binary operations on languages with accepting state complexity given as a parameter. This is a continuation of the work of [J. Dassow: On the number of accepting states of finite automata, *J. Autom., Lang. Comb.*, 21, 2016]. We solve most of the open problems mentioned thereof. In particular, we consider the operations of intersection, symmetric difference, right and left quotients, reversal, and permutation, where we obtain precise ranges of accepting state complexities. We also consider symmetric difference on unary finite languages where we obtain a non-contiguous range of accepting state complexities.

Authors: M. Holzer (Universität Giessen), **M. Hospodár** (MI SAS)

Projects: VEGA 2/0132/19, APVV-15-0091, DAAD short-term grant ID 57314022

Reference: M. Holzer, M. Hospodár, *The ranges of accepting state complexities of languages resulting from some operations*, *International Journal of Foundations of Computer Science*, **31** no. 8 (2020), 1159–1177. doi: [10.1142/S0129054120420083](https://doi.org/10.1142/S0129054120420083)

Periodická štruktúra kvantových kanálov

Kvantové kanály sú základnými objektmi kvantovej teórie, kde sa využívajú na popis vývoja otvoreného kvantového systému v diskretných časových modeloch. Štruktúra kvantových kanálov na konečnorozmerných systémoch je už celkom dobre známa. V článku sme skúmali nekonečnorozmerný prípad za predpokladu existencie verného invariantného stavu, kedy je možné systém rozložiť na „stabilnú“ a „reverzibilnú“ časť vzhľadom na vývoj (rozklad Jacobsowho-DeLeeuwowho-Glicksbergovho typu). Ukázali sme, že reverzibilná časť sa zhoduje s najväčšou podalgebrou na ktorej sa kanál zužuje na endomorfizmus. V dôsledku toho existuje normálna podmienená stredná hodnota na túto podalgebru. Tento výsledok sme použili na presný popis štruktúry kanála, jeho pevných bodov a invariantných stavov, ako aj periodické vlastnosti indukovanej diskretnej dynamickej semigrupy. Podobné výsledky platia aj v prípade dynamických semigrúp so spojitým časom.

Autori: A. Jenčová (MÚ SAV), R. Carbone (Univ. Di Pavia, Italy)

Projekty: VEGA 2/0069/16, APVV-16-0073

Referencia: R. Carbone, A. Jenčová, *On period, cycles and fixed points of a quantum channel*, *Annales Henri Poincaré* **21** (2020), 155–188.

The periodic structure of a quantum channel

Quantum channels are fundamental objects in quantum theory. They are widely used to represent the evolution of an open quantum system in discrete time models. In finite dimensions, the structure of quantum channels is already quite well understood. We study the infinite dimensional case under the assumption of existence of a faithful invariant state, when the system can be decomposed into a “stable” and a “reversible” part with respect to the evolution (the Jacobs-DeLeeuw-Glicksberg type decomposition). We show that the reversible part coincides with the largest subalgebra where the channel acts as an endomorphism. Consequently, this subalgebra is the range of a normal conditional expectation. Using this result, we give a precise description of the structure of the channel, its fixed points and invariant states, as well as the periodic behaviour of the induced discrete time semigroup. Similar results hold also in the continuous time case.

Authors: A. Jenčová (MÚ SAV), R. Carbone (Univ. Di Pavia, Italy)

Projects: VEGA 2/0069/16, APVV-16-0073

Reference: R. Carbone, A. Jenčová, *On period, cycles and fixed points of a quantum channel*, Annales Henri Poincaré **21** (2020), 155–188.

On the Poincaré-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations

Perturbačne metódy sú dobre zavedenými spôsobmi na získanie existencie periodických riešení v hladkých diferenciálnych rovniciach. Pri štúdiu nehladkých sústav diferenciálnych rovníc však treba čeliť inými druhmi periodických riešení. Predpokladajme, že diferenciálna rovnica nie je hladká pozdĺž určitého povrchu S . Zaujímavá situácia nastane, keď dané zobrazenie M pôsobí na S takým spôsobom, že keď riešenie diferenciálnej rovnice zasiahne S , potom riešenie pokračuje okamžite v inom bode na S danom M . Riešenia vyhovujúce tejto vlastnosti sa nazývajú nárazové riešenia. Potom je zaujímavé študovať existenciu riešení dotýkajúcich sa S . Tieto riešenia sa nazývajú dotýkajúce nárazové riešenia. Tento druh riešení možno považovať za riešenia určujúce hranicu medzi riešeniami, ktoré zasiahnu S , a tými, ktoré S nezasiahnu vôbec. Tento článok študuje zachovanie periodických dotýkajúcich nárazových riešení pre periodicky perturbované diferenciálne rovnice s nárazmi. Uplatňuje sa prístup Poincaré-Adronov-Melnikovovej metódy. Je založený na zavedení a štúdiu vhodného nárazového Poincarého zobrazenia. Typickým príkladom nehladkého modelu s nárazmi je skákajúca lopta alebo kmitajúce sa kyvadlo vo zvone.

Autori: F. Battelli (Univ. Ancona, Italy), M. Fečkan (MÚ SAV)

Projekt: VEGA 2/0153/16

Referencia: F. Battelli, M. Fečkan: *On the Poincaré-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations*, Journal of Differential Equations **268** (2020), 3725–3748.

On the Poincaré-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations

Perturbative methods are well established ways to obtain existence of periodic solutions in smooth differential equations. In the study of non-smooth systems of differential equations, however, one has to face with different kinds of periodic solutions. Suppose that the differential equation is non-smooth along a certain surface S . Interesting situation arises when a map M acts on S in such a way that when a solution of the differential equation hits S , then the solution continues immediately at another point on S given by M . Solutions satisfying this property are called impact solutions. Then it is interesting to study the existence of solutions touching S . These solutions are called as grazing impact solutions. Such kind of solutions may be seen as solutions determining a border between solutions hitting S and those that do not hit S at all. This paper studies the persistence of periodic grazing impact solutions for periodically perturbed differential equations with impacts. An approach of the Poincaré-Adronov-Melnikov method is applied. It is based on introducing and studying an appropriate impact Poincaré mapping. A typical example of impact non-smooth model is a bouncing ball or swinging pendulum in bell.

Autori: F. Battelli (Univ. Ancona, Italy), M. Fečkan (MI SAS)

Projekt: VEGA 2/0153/16

Referencia: F. Battelli, M. Fečkan: *On the Poincaré-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations*, Journal of Differential Equations **268** (2020), 3725–3748.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2020/ doplnky z r. 2019
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	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)	42 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)	23 / 3
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	1 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	6 / 2
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	3 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	0 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	1 / 1
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2019 (zdroj JCR) <i>Počet článkov / doplnky</i>	17 / 0	18 / 1	9 / 1	9 / 1	53 / 3
Podľa SJR z r. 2019 (zdroj Scimago) <i>Počet článkov / doplnky</i>	18 / 0	21 / 3	23 / 0	4 / 0	66 / 3

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2019/ doplnky z r. 2018
Citácie vo WOS (1.1, 2.1)	840 / 0
Citácie v SCOPUS (1.2, 2.2)	184 / 0
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)	13 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	1 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	15
Prednášky a vývesky na národných vedeckých podujatiach	0

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 (1x), R. Frič (1x), J. Haluška (2x), E. Halušková, M. Hospodár, G. Jirásková

Účasť: D. Babicová, I. Krajňáková, P. Mlynárčik, M. Repický

Seminár z kvantových logík

Vedúci: A. Dvurečenskij, S. Pulmannová

Účasť: A. Jenčová, M. Hyčko, E. Vinceková, N. Dilna

Poznámka: Bola zrealizovaná jediná prednáška, doc. Svitlana Leshchuk, PhD. (Volodymyr Hnatiuk Ternopil, National Pedagogical University, Ternopil, Ukraine): *Some aspects of training a modern specialist (work experience at the Pedagogical University)*, 24. 1. 2020. Pre nepriaznivú situáciu ohľadom COVID-19 nebol seminár aktívny.

Seminár z topológie a teórie množín na PF UPJŠ

Vedúci: L. Bukovský (PF UPJŠ)

Účasť: P. Eliaš, M. Repický

Seminár o fuzzy logike a pravdepodobnosti na PF UPJŠ

Vedúci: S. Krajčí (PF UPJŠ)

Referáty: P. Eliaš, R. Frič (3x)

Seminár z globálnej analýzy na FHPV PU

Vedúci: J. Brajerčík (FHPV PU)

Referáty: P. Eliaš

Seminár z usporiadaných algebraických štruktúr na PF UPJŠ

Vedúci: D. Studenovská-Jakubíková (PF UPJŠ)

Referáty: E. Halušková, M. Hospodár, J. Pócs

Poznámka: Seminár sa uskutočňoval aj online formou.

Set-Valued Analysis

Vedúci: Ľ. Holá

Poznámka: Pre nepriaznivú epidemickú situáciu sa seminár v roku 2020 neuskutočňoval.

Seminár z teoretickej informatiky na ÚINF UPJŠ

Vedúci: V. Geffert (ÚINF UPJŠ)

Referáty: M. Hospodár (2x), G. Jiráskova (2x)

Účast': P. Mlynárčik

Seminár z algebraickej a diferenciálnej topológie

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

Vedúci: M. Čadek (MU Brno), T. Macko, J. Korbaš (FMFI UK/MÚ SAV), M. Niepel (FMFI UK)

Referáty: T. Macko

Účast': J. Korbaš

Panglobal Algebra and Logic Seminar (Univ. Colorado, USA)

Stránka: <http://math.colorado.edu/algebrallogic/>

Vedúci: K. A. Kearnes (Univ. Colorado, USA)

Účast': E. Halušková

Poznámka: Konaný online.

Seminár z kryptológie na FEI STU

Vedúci: O. Grošek

Účast': K. Nemoga, J. R. Dora, P. Sýs

Seminár z kybernetickej bezpečnosti na FEI STU

Vedúci: spoločný seminár FEI STU, ÚI SAV, MÚ SAV, FMFI UK

Účast': K. Nemoga, J. R. Dora, P. Sýs

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.6.4. Prednášky na medzinárodných vedeckých podujatiach

1. CATERINO, A.—CEPPITELLI, R.—**HOLÁ, Ľ.:** *On the Jointly Continuous Multi-Utility Representation Problem*, 19th Conference on Applied Mathematics (APLIMAT 2020), Bratislava, 4.-6. 2. 2020. url: <http://evlm.stuba.sk/APLIMAT/archiv/Abstracts2020.htm>

2. **ČUNDERLÍKOVÁ, K.:** *Conditional intuitionistic fuzzy mean value in connection with the intuitionistic fuzzy probability*, IWIFSGN'2020, Varšava, 10.-11.12.2020, online. url: <http://www.ibspan.waw.pl/ifs2020/>
3. **FRIČ, R.:** *Lukasiewicz logic and the divisible extension of probability theory*, The 34th International Summer Conference on Real Functions Theory (Virtual ISCRFT 2020), september 2020, online. url: <https://im.saske.sk/iscrft2020/>
4. **HALAŠ, R.—MESIAR, R.—PÓCS, J.:** *Representation of sup-preserving and inf-preserving aggregation functions via binary relations*, The 15th International Conference on Fuzzy Set Theory and Applications (FSTA 2020), Liptovský Ján, 26.-31.1. 2020. url: <https://fsta.sk/>
5. **HOLÁ, Ľ—HOLÝ, D.:** *Quasicontinuous functions and cardinal invariants of the topology of pointwise convergence*, The 34th International Summer Conference on Real Functions Theory (Virtual ISCRFT 2020), september 2020, online. url: <https://im.saske.sk/iscrft2020/>
6. **HOLÁ, Ľ—HOLÝ, D.:** *Quasicontinuous functions and cardinal invariants of the topology of uniform convergence on compacta*, The 34th International Summer Conference on Real Functions Theory (Virtual ISCRFT 2020), september 2020, online. url: <https://im.saske.sk/iscrft2020/>
7. **JENČOVÁ, A.—BLUHM, A.—NECHITA, I.:** *Incompatibility in general probabilistic theories, generalized spectrahedra, and tensor norms*, 20th AQIS (Virtual Conference), Sydney, Australia, 7-9.12.2020, online. url: <http://aqis-conf.org/2020/>
8. **JENČOVÁ, A.—BLUHM, A.—NECHITA, I.:** *Incompatibility in GPT and tensor norms*, IQUAS 2020, Smolenice, 24.-28.8.2020. url: <http://qute.sk/iquas/>
9. **JENČOVÁ, A.—PLÁVALA, M.:** *Structure of quantum and classical implementations of Popescu-Rohrlich box* (poster), Univ. Vienna, Rakúsko (+ mnohé iné inštitúcie), online, 23.-27. 11.2020. url (abstrakt): https://www.q-turn.org/wp-content/uploads/2020/11/Q-Turn_2020_paper_137.pdf
10. **MACKO, T.:** *Cobordisms of chain complexes*, Winter school in geometry and physics, Srní, ČR, 11.-18.1.2020. url: https://conference.math.muni.cz/srni/files/archiv/2020/conference_materials.pdf
11. **MAČUTEK, J.:** *Statistical Testing in Linguistics*, Summer Workshop - Statistics in Linguistics, Trojanovice, ČR, 20.-24. 7. 2020. url: <https://kcj.osu.cz/2020/07/25/v-trojanovicich-probehl-letni-workshop-zamereny-na-aplikaci-statistickych-metod-v-lingvistice-2/>
12. **NEDELA, R.:** *The Jacobian and the automorphism group of a graph*, Symmetries of Discrete Objects (SODO 2020), Rotorua, Nový Zéland, 10.-14.2.2020. url: <https://www.math.auckland.ac.nz/~conder/SODO-2020/>
13. **NOVOTNÝ, B.—HOLÁ, Ľ.:** *When are topological vector spaces of minimal usco and minimal cusco maps isomorphic?*, The 34th International Summer Conference on Real Functions Theory (Virtual ISCRFT 2020), september 2020, online. url: <https://im.saske.sk/iscrft2020/>
14. **PAPČO, M.—FRIČ, R.:** *Representation of sup-preserving and inf-preserving aggregation functions via binary relations*, The 15th International Conference on Fuzzy Set Theory and Applications (FSTA 2020), Liptovský Ján, 26.-31.1. 2020. url: <https://fsta.sk/>
15. **PLÁVALA, M.:** *Jordan product of channels* (poster), Virtual Bristol Quantum Information Technologies Workshop (BQIT:20), Bristol, UK, online, 27.-30. 4. 2020. url: [http://www.bristol.ac.uk/media-library/sites/get-labs/images/bqit/Virtual%20BQIT20%20full%20programme%20\(web\).pdf](http://www.bristol.ac.uk/media-library/sites/get-labs/images/bqit/Virtual%20BQIT20%20full%20programme%20(web).pdf)

2.6.5. Prednášky na domácich vedeckých podujatiach

2.6.6. Prednášky na významných vedeckých inštitúciách

1. **MACKO, T.:** *Homotopické grupy sfér*, verejná habilitačná prednáška, FMFI UK, Bratislava, 23. 6. 2020.

2.6.7. Ostatné prednášky

1. **HALUŠKA, J.:** *Matematické možnosti analýzy organových menzúr na príklade gemerských organov*, interdisciplinárna konferencia: "Kultúrne dedičstvo Gemera a Malohontu a jeho sprístupňovanie", Revúca, 8.-9. 9. 2020, url: <http://csr.sk/wp-content/uploads/2020/09/Program-konferencie-Gemer-2020.pdf>.
2. **MASHTALIR, O.—DILNA, N.:** *About using blog in the conditions of mixed learning and teaching*, International on-line Conference. Modern information technology and innovation methods in teaching: experience, trends and prospects, Ternopil, Ukraine, 12-13.11.2020, online, pozvaná prednáška. url: <http://conf.fizmat.tnpu.edu.ua/>

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2020

2.7.1. Vynálezy, na ktoré bol v roku 2020 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2020

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 2020

b) udelené v roku 2020

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 2020 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 publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bečka Martin	0	0	1	0	0	0	0
Čunderlíková Katarína	0	0	3	0	0	0	0
Dilna Natália	0	0	4	0	0	0	0
Fečkan Michal	0	1	19	0	0	0	0
Frič Roman	0	0	1	0	0	0	0
Halušková Emília	0	0	1	0	0	1	0
Holá Ľubica	0	0	8	0	0	0	0
Hospodár Michal	0	0	1	0	0	0	0
Hyčko Marek	0	0	16	3	0	0	0
Jenčová Anna	0	1	10	0	0	0	1
Jirásková Galina	0	0	3	0	0	0	3
Kochol Martin	0	0	5	8	1	0	0
Korbaš Július	0	1	1	0	0	0	0
Macko Tibor	0	0	1	1	0	0	0
Nemoga Karol	0	0	10	0	0	0	0
Novotný Branislav	0	0	1	1	0	0	0
Okša Gabriel	0	0	0	0	0	0	0
Pócs Jozef	0	0	3	0	1	0	3
Pospíšil Michal	0	0	4	4	0	0	0
Pulmannová Sylvia	0	0	2	0	0	0	0

Tabuľka 2j (pokr.) Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra- ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra- ničné
Strauch Oto	0	0	6	1	0	0	0
Vajteršic Marian	0	0	4	0	1	0	0
Wimmer Gejza	0	0	3	0	0	0	2
Zemánková Andrea	0	0	11	0	0	0	1
Spolu	0	3	118	18	3	1	10

2.11. Iné informácie k vedeckej činnosti.

Ostatné dosiahnuté výsledky:

- Zlepšili sme našu implementáciu Jacobiho SVD, ktorá je rýchlejšia ako existujúce implementácie SVD algoritmu v sériovom ako aj v paralelnom prípade, pre dobre podmienené matice.
- Zaoberali sme sa D-stabilitou symetrických riešení skalárnych symetrických lineárnych a nelineárnych funkcionálno-diferenciálnych rovníc. Našli sme všeobecné podmienky pre jednoznačnú riešiteľnosť začiatkovej úlohy pre symetrické funkcionálno-diferenciálne rovnice. Taktiež preukázali sme podmienky pre symetrickosť jediného riešenia symetrických funkcionálno-diferenciálnych rovníc. Všetky teoretické výsledky boli ilustrované na príklade. Okrem iného, sme predstavili možné lineárne funkcie, ktoré majú hľadané symetrické vlastnosti.
- Študovali sme vzťah medzi spektrálnymi rozkladmi v k -perfektných MV-algebrách, t.j. možnosť kedy spektrálny rozklad môže byť rozšírený na jediné pozorovateľnú.
- Ukázali sme rozširovaciu vlastnosť pre n -rozmerné spektrálne rozklady na n -rozmernú pozorovateľnú pre sigma úplné MV-algebry a monotónne sigma-úplné efektové algebry s Rieszovou dekompozičnou vlastnosťou.
- Predstavili sme základné vlastnosti novej algebrickej štruktúry nazvanej EMV-algebra, t.j. algebry, kde každý prvok je dominovaný booleovským prvkom, ale top element sa nepredpokladá.
- w EMV-algebry sú algebry tvoriace varietu, ktorá je najmenšia varieta obsahujúca všetky EMV-algebry. Pre tieto algebry sme študovali stavu a ukázal sme mnoho dôležitých vlastností platných pre stavy na MV-algebrách.
- Boli študované vlastnosti pravdepodobnostných mier na súčinových priestoroch súvisiace s variantmi Radon-Nikodymovej vety pre markovovské jadrá.
- Asociatívna, komutatívna a distributívna operácia násobenia na vektorovom priestore izomorfnom s E_{12} nad R je definovaná pomocou skew cirkulantnej matice základných prvkov. Na tejto algebre W_{12} sú definované ešte dva poriadky: jeden lineárny indukovaný reálnou priamkou generovaný prvou harmonikou kmitajúcej struny. Druhý je 12-cyklický, odvodený z tretej harmoniky kmitajúcej struny. Príslušné algebrické, geometrické a topologické vlastnosti sú vypočítané pre algebru W_{12} . Existuje 6 izotónnych cyklických podalgebier algebry W_{12} : $W_1, W_2, W_3, W_4, W_5, W_6$. Algebra W_{12} je izomorfná s $C \times C \times C \times C \times C \times C$ nad R a je izomorfná tenzorovému súčinu podalgebier W_3 a W_4 . Topológia na W_{12} je daná štandardnou Euklidovou normou. Existujú podmnožiny v W_4 sú izomorfné Gaussovej (eliptickej) a Cliffordovej (hyperbolickej) komplexnej číselnej rovine. Ukázaný je spôsob, ako sa dajú nájsť inverzné prvky v W_{12} , ak existujú.

- Zaoberali sme sa konštrukciou direktnej limity na okruhoch. Nech R je okruh a $D(R)$ obsahuje všetky direktné súbory okruhov pozostávajúce z okruhov izomorfných s R . Ak R' je retrakt R , tak existuje direktný súbor z $D(R)$, ktorého limita je izomorfná s R' . Pre konečné okruhy platí, že limita každého direktného súboru z $D(R)$ je retraktom okruhu R . Zistili sme, že R' je retrakt R práve vtedy, keď existuje ideál I okruhu R taký, že R je priamy súčet I a R' . Ukázali sme, že pre okruhy polynómov nad okruhom celých, racionálnych aj reálnych čísel existuje direktný súbor z $D(R)$ taký, že jeho limita nie je retraktom príslušného okruhu polynómov.
- Zaviedli sme študovali pojem kongruenčného páru pre hlavné MS-algebry. Tento pojem je jednoduchší než pôvodný od Beazera z r. 1985. Analógia Grätzerovho problému formulovanému pre distributívne p-algebry je v článku prezentovaná pre hlavné MS-algebry a je uvedené jednoduché a elegantné riešenie problému.
- Skúmali sme triedu jazykov rozpoznávaných permutačnými deterministickými konečnými automatmi. Použijúc automatové konštrukcie a niektoré vlastnosti permutačných automatov ukázali sme, že táto trieda je uzavretá nad booleovskými operáciami, zrkadlovým obrazom a kvocientmi a nie je uzavretá nad zreťazením, mocninou, Kleeneho uzáverom, pozitívnym uzáverom, strojovým zreťazením, premiešaním, cyklickým posunom a permutáciou. Dokázali sme, že stavová zložitosť booleovských operácií, Kleeneho uzáveru, pozitívneho uzáveru a pravého kvocientu na permutačných jazykoch je rovnaká ako vo všeobecnom prípade regulárnych jazykov. Ďalej dostaneme presné hodnoty stavovej zložitosti zreťazenia. Všetky naše dosvedčujúce jazyky sú unárne alebo binárne a binárna abeceda je vždy optimálna okrem booleovských operácií v prípade ak $\gcd(m,n) = 1$. V unárnom prípade, stavová zložitosť všetkých uvažovaných operácií, okrem kvocientov a strojového zreťazenia, je rovnaká ako pre regulárne jazyky. V prípade kvocientov je zložitosť $\min\{m,n\}$ a v prípade strojového zreťazenia je to buď $2m - 1$ alebo $2m - 2$, v závislosti od toho, či existuje celé číslo 1 také, že $2 \leq l \leq n$ a $m \bmod l = 0$.
- Dokázali sme monotónnosť "sendvičových" Rényiho relatívnych alfa-entropií vzhľadom na všetky pozitívne zobrazenia zachovávajúce stopu a všetky hodnoty parametra alfa v intervale $(0.5,1)$. Tiež sme dokázali, že rovnosť v monotónnosti implikuje reverzibilitu pre 2-pozitívne zobrazenia zachovávajúce stopu. Našli sme niekoľko ekvivalentných charakterizácií kompatibilných meraní vo všeobecných probabilistických teóriách: pomocou rozširiteľnosti pozitívnych zobrazení, zovšeobecnených spektrahedronov a pomocou tenzorových noriem. To viedlo k novým odhadom stupňa compatibility (aj) pre kvantové efekty.
- Pre zreťazenie k jazykov sme popísali dosvedčujúci jazyk nad k -písmenkovou abecedou, a ukázali sme, že takáto abeceda je optimálna v prípade, že $k=3$.
- Vyjadrili sme Tutteov polynóm regulárnych matroidov ako počet dvojíc vybraných prvkov zodpovedajúcej chain grupy.
- Dokázali sme, že zovšeobecnené Tutte–Grothendieckove invarianty, preto tiež Tuttove polynómy matroidov, je možné transformovať do tvaru, že pravidlá kontrakcie a vynechania zodpovedajúce slučkám (mostom) splynú s pravidlami zodpovedajúcimi všeobecným prvkom matroidov.
- Odvodili sme silné dolné ohraničenia pre rozpon projektívnych Stiefelových variet $X(n,r)=O(n)/(O(n-r)\times Z/2)$, ktoré umožňujú veľmi presné odhady rozponu. Technika je vo väčšine prípadov založená na elementárnych vlastnostiach vektorových fibrácií. Avšak prípad $X(n,2)$ s n nepárnym má zvláštne ťažkosti, ktoré sa čiastočne vyriešia pomocou Browderovho-Dupontovho invariantu.
- Pokračovali sme v hľadaní všeobecnej formulácie algebrickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórii chirurgií. Vylepšovali a doladzovali sme nami definované univerzálne konštrukcie, ktoré sme našli v predchádzajúcom roku, pričom sme mali špeciálne na zreteli voľby bazových bodov.

Taktiež sme pridali všeobecnú kapitolu o homotopickej teórii reťazcových komplexov, ktorá by mohla byť užitočná aj pre výskumníkov mimo teórie chirurgií.

- Pokračovali sme hľadaniu nového dôkazu hlavnej vety a totálnej chirurgickej prekážky. Konkrétne sme sa venovali Mayer-Vietorisovej postupnosti v homológiách s koeficientami v L -spektre odvodené od rozkladu Poincarého CW-complexu vynásobeného vysoko-rozmerným diskom na rúčky zlepené homotopickými ekvivalenciami. Pomocou nej sme našli priamy súvis medzi homologickeou časťou totálnej chirurgickej prekážky a štruktúrnym invariantom homotopickej ekvivalencie variet s hranicou, čo by mal byť jeden z hlavných komponentov finálneho dôkazu, ktorý hľadáme.
- Odvodili sme súvislosť medzi Grothendieckovými kompletnými regulárnymi dezénmi a kosomorfizmami cyklických grúp. To viedlo k objavu konceptu recipročných párov kosomorfizmov. Priamym dôsledkom je charakterizácia dvojíc prirodzených čísel (m,n) , pre ktoré existuje jediný kompletný regulárny dezén typu (m,n) .
- Zaoberali sme sa ťažkým problémom rozpoznania Cayleyho grafov. Dokázali sme, že pre abelovské grupy rádu $4p$, kde p je prvočíslo, je tento problém riešiteľný v polynomiálnom čase.
- Skúmali sme vlastnosti Ramseyho modelu v ekonomike s nekonštantným rastom populácie.
- Bola dokázaná konvergencia vlastných vektorov a vlastných čísel pre sériový a paralelný blokový Jacobiho EVD algoritmus pre hermitovské matice s dynamickým usporiadaním subproblémov.
- Boli študované generujúce množiny agregáčného klonu na konečných zväzoch.
- Podarilo sa charakterizovať konečné reťazce použitím minimality istých špeciálnych typov generujúcich množín.
- Synaptické algebry zavedené D. Foulisom zovšeobecňujú dosiaľ známe modely kvantovej mechaniky. Študovali sme ostré (sharp) a neostré (fuzzy) pozorovateľné na dvoch triedach synaptických algebier, na tzv. generalizovaných Hermitovských algebrách a na synaptických algebrách, ktoré sú duálom Banachovho priestoru. Na týchto dvoch typoch synaptických algebier sme ukázali vzťahy medzi fuzzy a sharp pozorovateľnými.
- Ukázal sme, že tenzorový súčin dimenzných efektových algebier v kategórii efektových algebier je dimenzná efektová algebra, ktorá je izomorfná jednotkovému intervalu v tenzorovom súčine zodpovedajúcich dimenzných grúp v kategórii unitálnych abelovských po-grúp.
- Získali sme nové výsledky o kardinálnych invariantoch topologických priestorov nerozlišujúcich ideálové konvergenzie postupností spojitých reálnych funkcií.
- Študovali sme rovnomerné rozdelenie váhovej digitálnej funkcií. Dokázali sme obecné trigonometrické kritérium pre rovnomerné rozdelenie. Ukázali sme nejaké horné ohraničenie pre diskrepanciu. Existencia distribučnej funkcie $g(x)=x$ implikuje rovnomerné rozdelenie. Ako príklady uvádzame van der Corput-Haltonovu a Kroneckerovu d -rozmernú postupnosť.
- K. Mahlerova hypotéza hovorí: Neexistuje $t \in \mathbb{R}$ tak že $\{t(3/2)^n\} < 1/2$ pre $n=0,1,2,\dots$. Ak také t existuje, nazývame ho Mahlerove Z -číslo. My sme ukázali, že ak t je Z -číslo potom postupnosť $x_n = \{t(3/2)^n\} \bmod 1$ má asymptotickú distribučnú funkciu $c_0(x)$, kde $c_0(x)=1$ pre $x \in (0,1]$.
- Prezentovali sme numerické experimenty potvrdzujúce zníženie komplexity Strassenovho algoritmu, keď sa vhodne kombinuje s klasickým maticovým násobením na malých maticiach.
- Dokázali sme, že každá idempotentná 2-uninorma sa dá vyjadriť ako ordinálny súčet idempotentnej uninormy (v niektorých prípadoch ešte aj spočítateľného počtu idempotentných pologrúp s operáciami $\min$ a $\max$) a 2-uninormy z triedy 1 (v niektorých prípadoch zúženej na otvorený, alebo polootvorený jednotkový štvorec). Tie isté výsledky sme ukázali aj pre n -uninormy vyšších rádo. Tiež sme ukázali, že idempotentné n -uninormy

(podobne ako klasické idempotentné uninormy) korešpondujú jedna-k-jednej so špeciálnymi dolnými polo-zväzmi definovanými na jednotkovom intervale.

- Študovali sme n -uninormy so spojitými pridruženými t -normami a t -konormami. Jadro týchto funkcií tiež tvorí n -uninorma z triedy 1 so spojitými pridruženými funkciami. Ukázali sme, že každá 2-uninorma so spojitými pridruženými funkciami sa dá vyjadriť ako ordinálny súčet uninormy so spojitými pridruženými funkciami (v niektorých prípadoch ešte aj spočítateľného počtu pologrúp odvodených od reprezentovateľných uninoriem, spojitých Archimedovských t -noriem, t -konoriem a idempotentných uninoriem) a 2-uninormy z triedy 1 (v niektorých prípadoch zúženej na otvorený, alebo polootvorený jednotkový štvorec). Tie isté výsledky sme ukázali aj pre n -uninormy vyšších rádov.
- Skúmali sme aj konvexné kombinácie uninoriem, pričom sme sa zamerali na uninormy so spojitými pridruženými funkciami, uninormy s rôznymi neutrálnymi prvkami a reprezentovateľné uninormy. Ukázali sme, že v tomto probléme hrajú veľmi dôležitú úlohu konvexné kombinácie t -subnoriem. Naše výsledky ukazujú, že netriviálna konvexná kombinácia dvoch uninoriem so spojitými pridruženými funkciami môže byť uninormou iba v prípade ak netriviálna konvexná kombinácia dvoch striktných t -noriem môže byť t -norma (čo je problém, ktorý sa ešte vo všeobecnosti nepodarilo vyriešiť), alebo ak netriviálna konvexná kombinácia dvoch reprezentovateľných uninoriem môže byť uninorma (čo sme v niektorých špeciálnych prípadoch vylúčili).
- Ukázali sme, že n -uninorma so spojitými pridruženými funkciami má n charakterizujúcich multi-funkcií, pričom grafy týchto multi-funkcií pokrývajú celú množinu bodov nespojitosti danej n -uninormy. Popritom i -ta charakterizujúca multi-funkcia delí jednotkový štvorec na dve časti: pod grafom i -tej charakterizujúcej multi-funkcie nadobúda n -uninorma hodnoty menšie ako i -ty lokálny neutrálny prvok a nad grafom i -tej charakterizujúcej multi-funkcie nadobúda n -uninorma hodnoty väčšie ako i -ty lokálny neutrálny prvok. Popisujeme tiež vzťah medzi i -tou charakterizujúcou multi-funkciou a charakterizujúcou multi-funkciou i -tej pridruženej uninormy.
- Študovali sme prirodzené čiastočné usporiadanie pologrúp indukované asociatívnou, idempotentnou, komutatívnou funkciou F (ako sú napr. t -normy, t -konormy, uninormy a nullnormy na ohraničených zväzoch). Ukázali sme, že v prípade takýchto funkcií prirodzené čiastočné usporiadanie zodpovedá dolnému polo-zväzu a že hodnota $F(x,y)$ sa dá vyjadriť ako infimum z x a y vzhľadom na prirodzené čiastočné usporiadanie. Pomocou tohto výsledku sme predstavili metódu na jednoduché overenie (či vylúčenie) asociativity pre komutatívne, idempotentné funkcie. V špeciálnych prípadoch sme tiež ukázali nutné a postačujúce podmienky na to, aby bola takáto funkcia neklesajúca. Tiež sme ukázali, že prirodzený dolný polo-zväz spája ordinálny súčet podľa Clifforda s ordinálnym súčtom podľa Birkhoffa.
- V spolupráci so španielskymi kolegami sme dokázali spraviť prvé kroky smerujúce ku kompletnej charakterizácii (S,N) -implikácií v prípade, keď je negácia N nespojitá. Naša práca zahŕňala dva kroky. Prvý je všeobecná charakterizácia týchto fuzzy implikácií. Druhý je problém rozšírenia binárnej funkcie známej na nejakej podmnožine jednotkového štvorca na t -konormu. V práci sme riešili duálny problém rozšírenia binárnej funkcie na t -normu. Tento problém sa nám podarilo vyriešiť pre kancelatívne funkcie a funkcie N -ekvivalentné s minimovou t -normou. Naše výsledky sa zameriavali hlavne na negácie s jedným bodom nespojitosti, ale väčšina výsledkov sa dá použiť aj pre všeobecnejšie nespojité negácie.
- Sformulovali sme a dokázali martingálovú konvergenčnú vetu pre podmienenú intuicionistickú fuzzy pravdepodobnosť indukovanú intuicionistickým fuzzy stavom.
- Definovali sme podmienenú pravdepodobnosť pre intuicionistické fuzzy množiny pomocou intuicionistickej fuzzy pravdepodobnosti. Sformulovali sme a dokázali martingálovú konvergenčnú vetu i pre takýto typ podmienenej intuicionistickej fuzzy pravdepodobnosti.

- Študovali sme individuálnu ergodickú vetu na intuicionistických fuzzy množinách v súvislosti s intuicionistickým fuzzy stavom a s intuicionistickou fuzzy pravdepodobnosťou.
- Dokázali sme platnosť základných viet teórie extrémnych hodnôt ako Fisher –Tippet-Gnedenkovu vetu a Pickands-Balkema-de Haanovu vetu pre MV-algebry.
- Definovali sme operáciu súčinu a združenú pozorovateľnú pre intervalové fuzzy množiny. Ukázali sme súvis medzi intervalovými fuzzy množinami a intuicionistickými fuzzy množinami v týchto oblastiach.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2020

Forma	Počet k 31.12.2020				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2020					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí						ukončenie úspešnou obhajobou		predčasné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	3	0	0	0	0	2	0	2	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	3	0	0	0	0	2	0	2	0	0	0	0
Súhrn	3		0		2		2		0		0	

Uvádajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2020 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

3.2. Zmena formy doktorandského štúdia

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

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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Dušana Babicová	interné štúdium hrazené z prostriedkov SAV	9 / 2016	8 / 2020	9.1.9 aplikovaná matematika	doc. RNDr. Roman Frič DrSc., Detašované pracovisko Matematického ústavu SAV v Košiciach	Fakulta matematiky, fyziky a informatiky UK
Mgr. Ivana Krajňáková	interné štúdium hrazené z prostriedkov SAV	9 / 2016	8 / 2020	9.1.9 aplikovaná matematika	RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2020 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 hodnotu
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3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2020 (obhajoba leto 2020)	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

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	

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.

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

Tabuľka 3g 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	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
aplikovaná matematika	9.1.9	Fakulta matematiky, fyziky a informatiky UK

Tabuľka 3h 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 hodnotu alebo vyšší kvalifikačný stupeň
prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika)	prof. RNDr. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Dušana Babicová (PhD., Fakulta matematiky, fyziky a informatiky UK)
prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika)	prof. RNDr. Anatolij Dvurečenskij, DrSc. (Prírodovedecká fakulta, Univerzita Hradec Králove, ČR)	Mgr. Ivana Krajňáková (PhD., Fakulta matematiky, fyziky a informatiky UK)
prof. RNDr. Michal Fečkan, DrSc. (matematická analýza)	RNDr. Stanislav Jakubec, DrSc. (Prírodovedecká fakulta, Univerzita Hradec Králove, ČR)	doc. Mgr. Tibor Macko, PhD. (doc., Fakulta matematiky, fyziky a informatiky UK)
prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty)	prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK)	
prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika)	prof. RNDr. Roman Nedela, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
doc. RNDr. Roman Frič, DrSc. (pravdepodobnosť a matematická štatistika)	prof. RNDr. Roman Nedela, DrSc. (Fakulta prírodných vied UMB)	
doc. RNDr. Roman Frič, DrSc. (geometria a topológia)	prof. RNDr. Roman Nedela, DrSc. (Univerzita Mateja Bela v Banskej Bystrici)	

Tabuľka 3h (pokr.) 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 hodnotu alebo vyšší kvalifikačný stupeň
doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia)	doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB)	
doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika)	doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR)	
prof. RNDr. Július Korbaš, 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)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2020

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	2	6	1
Celkový počet hodín v r. 2020	468	183	611	30

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	3
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	3
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	7
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	3
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	5
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

3.9. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2020 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

58. Letná škola z algebry a usporiadaných množín (SSAOS 2020), Smižany, 30.08.-05.09.2020

Konferencia sa pre nepriaznivú epidemickú situáciu nakoniec neuskutočnila. Plánuje sa jej organizácia v roku 2021.

34. medzinárodná letná konferencia z teórie reálnych funkcií (Virtual ISCRFT 2020)), --, 45 účastníkov, 07.09.-27.09.2020

Konferencia sa organizovala systémom online posterov. Počas jej konania boli pre registrovaných účastníkov zverejnené príspevky a bola otvorená diskusia k nim.

Konferencia k NATO projektu Science for Peace and Security (SPS) G5448 "Secure Communication in the Quantum Era", Smolenice, 20 účastníkov, 02.03.-04.03.2020

Matematický ústav poriadal v Smoleniciach od 2. do 4. marca 2020 konferenciu ku projektu Science for Peace and Security (SPS) G5448 "Secure Communication in the Quantum Era". K. Nemoga je koordinátorom tohto projektu za NATO ISEG. Konferencie mala asi 20 účastníkov z toho asi 10 zo zahraničia (Belgicko, USA, Malta, Španielsko). Zúčastnení pracovníci NATO HQ vysoko hodnotili priebeh a výsledky konferencie.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2021 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Summer School on General Algebra and Ordered Sets 2021/Letná škola z algebry a usporiadaných množín 2021, Smižany (Hotel Čingov), 05.09.-11.09.2021, (Jozef Pócs, 055/ 622 82 91, pocs@saske.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Eliaš Peter	0	1	0
Frič Roman	0	0	1
Holá Ľubica	0	0	1
Jirásková Galina	0	0	1
Nemoga Karol	2	0	0
Novotný Branislav	0	0	1
Štefančíková Katarína	0	1	0
Zemánková Andrea	1	0	0
Spolu	1	2	4

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Katarína Čunderlíková, PhD.

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)

doc. RNDr. Roman Frič, DrSc.

International Quantum Structures Association (funkcia: člen)

RNDr. Alžbeta Michalíková, PhD.

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

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

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)

prof. RNDr. Marian Vajtersíc, DrSc.

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

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Nemoga Karol	NATO ISEG	25

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

Spolupráca na multilaterálnom projekte " *Development of next-generation eigenvalue/singular value computation library with high scalability and high accuracy*". Členovia:

- Yusaku Yamamoto, The University of Electro-Communications, Tokyo, Japan
- Marian Vajteršic, University of Salzburg, Austria and Slovak Academy of Sciences, Bratislava, Slovakia
- Gabriel Okša, Slovak Academy of Sciences, Bratislava, Slovakia
- Martin Bečka, Slovak Academy of Sciences, Bratislava, Slovakia
- Shuhei Kudo, RIKEN AICS, Kobe, Japan
- Akira Imakura, University of Tsukuba, Tsukuba, Japan

Návšteva Prof. Yusaku Yamamoto-a u prof. M. Vajteršica na jeho pracovisku na Univ. v Salzburgu v dňoch 26. 2. - 16. 3. 2020.

E. Plávalová spolupracovala v skupine Exoplanet Group s Astronomickým ústavom AV ČR v Ondřeji, ČR. Zoznam všetkých členov skupiny je na stránke:

http://stelweb.asu.cas.cz/exogroup/en_members.html.

Kvôli sprísneným protiepidemiologickým opatrenia proti šíreniu Covid 19, väčšina medzinárodných konferencií sa buď presunula na neurčitý čas alebo prešli do on-line priestoru. Napr.

- Categorical Probability and Statistics (Ottawa, Kanada)
- TQC 2020 - 15th Conference on the Theory of Quantum Computation, Communication and Cryptography (Riga, Lotyšsko)
- Applied Category Theory 2020 (Cambridge, Massachusetts, USA)
- Workshop on Quantum Information, Computation, and Foundation (Kyoto, Japonsko)
- Q-Turn (Viedeň, Rakúsko)

RNDr. Martin Plávala, PhD. získal v r. 2020 prestížne štipendium nadácie Alexandra von Humboldta.

Matematický ústav SAV bol spoluriešiteľom projektu ERACoSysMed (2nd Joint Transnational Call for European Projects on Systems Medicine), spoluriešiteľské organizácie sú zo Španielska, Rakúska, Slovinska, Veľkej Británie, Nórska, Belgicka, Holandska, Luxemburska, Talianska, Izraela, Francúzska a Nemecka. Spolu 13 tímov, z Belgicka dva. Vedúcim za MÚ SAV je B. Novotný (ďalší riešiteľ za MÚ SAV P. Bokes). Projekt je financovaný SAV za spoluúčasti ústavu. Trvanie projektu 1. 7. 2018 – 30. 6. 2021.

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

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Odporúčania Medzinárodného panelu.

- Zriadiť medzinárodný poradný panel.
- Pokračovať v doktorandskom štúdiu, ktorého zameranie musí byť atraktívne pre študentov.
- Posilniť zložku postdoktorandov na ústave.
- Pracovať ďalej na vyvážení pomeru žien na pracovisku.
- Posilniť aktivity smerom ku účasti študentov na ústave.

SAV prijala širší akčný plán. Oba tieto dokumenty, t.j. Akčný plán SAV a odporúčania panelu boli rozpracované do Akčného plánu Matematického ústavu SAV.

5.2. 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. 2020 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.

5.3. Aktualizácia Akčného plánu organizácie v roku 2020

V roku 2020 sme urobili niekoľko výrazných krokov v jeho plnení:

- Prijali sme dvoch mladých kolegov na pomoc pri riešení modelovania šírenia pandémie Covid 19.
- Mladý docent (ako víťaz konkurzu) nastúpil 1.1.2020 pre oblasť matematickej štatistiky.
- S Výskumnou agentúrou sme začali realizovať dve zmluvy na realizáciu projektov Operačného programu Výskum a inovácie v hodnote cca 2 milióny EUR.

Týmito krokmi sme plnili odporúčania akreditačného panelu smerom ku omladeniu ústavu, posilneniu počtu postdoktorandov. Rozšírili sme spoluprácu o ďalšie atraktívne smery, napr. aktuálne problémy modelovania šírenia pandémie Covid 19 na Slovensku, ako nám bolo odporúčané. Súčasne sme rozšírenie spolupráce zamerali na získavanie ďalších mimorozpočtových zdrojov, čo umožní ďalšie zvýšenie počtu mladých pracovníkov.

Medzinárodný poradný panel Matematického ústavu SAV má nasledujúce zloženie:

- **Prof. Antonio Di Nola**, University of Salerno, Salerno, Taliansko,
- **Prof. Lajos Molnár, DSc.**, Dep. of Analysis, Bolyai Institute, University of Szeged, Szeged, Maďarsko
- **RNDr. Jiří Rákosník, CSc.**, bývalý riaditeľ Matematického ústavu AV ČR v Prahe.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

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, výuka 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, výchova mladých vedeckých pracovníkov, členstvo v štátnicových 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: Výuka 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, výuka, 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: spoločný grant

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2020

Zhodnotenie: Spolupráca na grante.

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: výuka, 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: výuka, spolupráca vo vedeckých projektoch.

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

Oblasť spolupráce: pedagogika, veda a výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2002

Zhodnotenie: výuka, spolupráca vo vedeckých projektoch.

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 vied o Zemi SAV

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.

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: Problémy ochrany informácií pre štátnu sféru SR

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: MO SR

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

Slovenská legálna metrológia - spolupráca na riešení APVV projektu.

Slovenský metrologický ústav - spolupráca na riešení APVV projektu.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Vývoj, počítačová implementácia a nasadenie v praxi algoritmov na odhaľovanie únikov plynu z potrubí

Zadávatel' výskumného kontraktu: ttc, s.r.o., Nitra

Začiatok spolupráce: 2004

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
doc. RNDr. Karol Nemoga, CSc.	Zbor expertov – ISEG, NATO	člen

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

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

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

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

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

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
58. Letná škola z algebry a usporiadaných množín (SSAOS 2020)*	medzinárodná	Smržany	30.08.-05.09.2020	-
34. medzinárodná letná konferencia z teórie reálnych funkcií (Virtual ISCRFT 2020))	medzinárodná	--	07.09.-27.09.2020	45
Konferencie k NATO SPS projektu G5448 "Secure Communication in the Quantum Era"	medzinárodná	Smolenice	02.03.-04.03.2020	20

* - Pre nepriaznivú pandemickú situáciu sa konferencia nakoniec neuskutočnila.

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

9.5. Členstvo v redakčných radách časopisov

RNDr. Katarína Čunderlíková, PhD.

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

Indian Journal of Mathematics (funkcia: člen)

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)

prof. RNDr. Michal Fečkan, DrSc.

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

doc. RNDr. Roman Frič, DrSc.

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ján Haluška, CSc.

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

doc. RNDr. Ľubica Holá, DrSc.

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

prof. RNDr. Juraj Hromkovič, DrSc.

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

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

prof. RNDr. Roman Nedela, DrSc.

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

Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

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

Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)

Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: 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.

Algebra Universalis (funkcia: člen)

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. Marian Vajteršic, DrSc.

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

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

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

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

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

prof. RNDr. Gejza Wimmer, DrSc.

Ekonomika a informácia (funkcia: člen)

Glottometrics (funkcia: člen)

Mathematica Slovaca (funkcia: člen)

Tatra Mountains Mathematical Publications (funkcia: člen)

RNDr. Tibor Žáčik, CSc.

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

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Martin Bečka, PhD.

Slovenská informatická spoločnosť (funkcia: člen)

RNDr. Katarína Čunderlíková, PhD.

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

doc. RNDr. Roman Frič, DrSc.

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

doc. RNDr. Ján Haluška, CSc.

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

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)

prof. RNDr. Július Korbaš, CSc.

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

RNDr. Alžbeta Michalíková, PhD.

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

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

SPNZ Slovenský plynárenský a naftový zväz (funkcia: člen)

Mgr. Eva Plávalová, PhD.

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

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Marian Vajtersíc, DrSc.

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

Humboldtov klub v SR (funkcia: člen)

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

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

prof. RNDr. Gejza Wimmer, DrSc.

JSMF (funkcia: člen výboru pobočky Bratislava I)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		27 015
z toho	knihy a zviazané periodiká	27 015
	audiovizuálne dokumenty	-
	elektronické dokumenty (vrátane digitálnych)	-
	mikroformy	-
	iné špeciálne dokumenty - dizertácie, výskumné správy	-
	Rukopisy, vzácne tlače	-
Počet titulov dochádzajúcich periodík		77
z toho zahraničné periodiká		67
Ročný prírastok knižničných jednotiek		114
v tom	kúpou	24
	darom	-
	výmenou	90
	bezodplatným prevodom	-
	náhradou	-
Úbytky knižničných jednotiek		-
Knižničné jednotky spracované automatizovane		-

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

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

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		36
v tom z r. 1	prezenčné výpožičky	10
	absenčné výpožičky	26
v tom z r. 1	odborná literatúra pre dospelých	32
	výpožičky periodík	4
MVS iným knižniciam		-
MVS z iných knižníc		-
MMVS iným knižniciam		-
MMVS z iných knižníc		-
Počet vypracovaných bibliografií		-
Počet vypracovaných rešerší		45

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	35
Návštevníci knižnice spolu (bez návštevníkov podujatí)	20

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	2 926,57

10.5. Iné informácie o knižničnej činnosti

V roku 2020 bol zabezpečený voľný prístup do matematickej databázy Zentralblatt MATH (FIZ Karlsruhe GmbH) ako súčasť práce Slovenskej jednotky redakcie, ktorú zabezpečuje Matematický ústav SAV.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

doc. RNDr. Karol Nemoga, CSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

doc. RNDr. Roman Frič, DrSc.

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

doc. RNDr. Ľubica Holá, DrSc.

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

11.4. Členstvo v komisiách SAV

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

doc. RNDr. Karol Nemoga, CSc.

- Edičná rada SAV (Podpredseda Edičnej rady)
- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre ekonomické otázky (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

11.5. Členstvo v orgánoch VEGA

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, DrSc.

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

doc. Ing. Gabriel Okša, CSc.

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

12. Hospodárenie organizácie

Poznámky ku tabuľkám:

1. KTG 640 zahŕňa aj výdavky ako sú napr. osobné (odstupné a odchodné a náhrada pri práceneschopnosti) vyplatené zamestnancom, platby za členské poplatky do tuzemských a medzinárodných organizácií a pod.
2. Doplnené sú údaje o ŠF.
3. Doplnené boli údaje Program Štipendium SAV a VTS (účelovo poskytované prostriedky z rozpočtu SAV).
4. Údaje v zdrojoch financovania sú rozšírené. Rozlišujú sa minulé a nové príjmy. Rozlišujú sa celkove použité zdroje, výdavky a zdroje.

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2020 v € zaokrúhlené)

Typ organizácie (RO)		Zdroje, z ktorých sa kryli jednotlivé výdavky					
Výdavky	Spolu	Kapitola SAV (111)	Iné štátne a verejné zdroje	Medzinárodné grantové projekty	ŠF EÚ yr. fin. zo ŠR	Ostatné	% krytia z kapitoly SAV
1. Bežné výdavky	1 575 125	1 331 150	64 865	12	174 150	4 948	84,51
z toho: mzdy (610)	979 903	858 031	17 391	-	104 481	-	87,56
vedecká výchova štipendiá (640)	45 714	45 714	-	-	-	-	100
poistné a príspevok do poisťovní (620)	329 812	287 561	5 786	-	36 465	-	87,19
tovary a služby (630)	211 813	138 113	35 536	12	33 204	4 948	65,21
transfery partnerom projektov (640)	7 883	1 731	6 152	-	-	-	21,96
2. Kapitálové výdavky	0	0	0	0	0	0	0
z toho: obstarávanie kapitálových aktív	0	-	-	-	-	-	-
kapitálové transfery	0	-	-	-	-	-	-

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2020 v € zaokrúhlené)

Typ organizácie (RO)	Z toho kategórie							
Zdroje	Príjmy celkom	Z toho prenesené z minulých období	Spolu výdavky	Kapitálové zdroje	Zdroje na mzdy (610)	Zdroje na odvody do poisťovní (620)	Zdroje na tovary a služby (630)	zdroje na transfery (640)
Matematický ústav celkom	2 027 886	35 028	1 575 125	0	979 903	329 812	211 813	53 597
1. kapitola SAV (111)	1 331 150	0	1 331 150	0	858 031	287 561	138 113	47 445
z toho: VEGA	57 469	0	57 469	-	-	125	56 986	358
MVTS výskumné projekty	20 000	0	20 000	-	-	867	19 133	-
SASPRO/MOREPRO	0	0	0	-	-	-	-	-
VTs	3 700	0	3 700	-	-	-	3 700	-
Program Štipendium SAV	40 000	0	40 000	-	18 525	6 475	15 000	-
Vydávanie časopisov	8 975	0	8 975	-	-	185	8 790	-
Vedecká výchova (štipendiá)	45 714	0	45 714	-	-	-	-	45 714
Teplo – TÚV	3 439	0	3 439	-	-	-	3 439	-
OTAS (630)	33 383	0	33 383	-	-	3 024	28 986	1 373
Zdroje mimo SAV (72c, 1103, 11S1, 3AA1, 3AA2)	696 736	35 028	243 974	0	121 872	42 250	73 700	6 152
2. ŠF EÚ vr. fin. zo ŠR	614 588	21 563	174 150	0	104 481	36 465	33 204	0
ITMS Kvant ¹ , Zdravie ²	593 026	0 ³	161 083	-	104 481	36 465	20 137	-
QUTE	21 563	21 563	13 067	-	-	-	13 067	-

Tabuľka 12b (pokr.) Zdroje financovania organizácie (skutočnosť k 31. 12. 2020 v € zaokrúhlené)

Typ organizácie (RO)	Z toho kategórie							
Zdroje	Príjmy celkom	Z toho prenesené z minulých období	Spolu výdavky	Kapitálové zdroje	Zdroje na mzdy (610)	Zdroje na odvody do poisťovní (620)	Zdroje na tovary a služby (630)	Zdroje na transfery (640)
3. medzinárodné grantové projekty	12	12	12	0	0	0	12	0
z toho: H2020	12	12	12	-	-	-	12	-
4. iné štátne a verejné zdroje (spolu)	64 865	0	64 865	0	17 391	5 786	35 536	6 152
z toho: APVV	64 865	0	64 865	-	17 391	5 786	35 536	6 152
podpora z kapitoly MŠVVaŠ SR (stimuly)	0	0	0	-	-	-	-	-
5. ostatné zdroje	17 271	13 454	4 948	0	0	0	4 948	0
z toho: príjmy z prenájmu	0	0	0	-	-	-	-	-
príjmy z podnikateľskej činnosti	9 745	9 745	0	-	-	-	-	-
príjmy z expertnej činnosti a služieb ⁴	7 525	3 708	4 948	-	-	-	4 948	-

¹ – ITMS-2014+: NFP313010T683: Matematická podpora kvantových technológií² – ITMS-2014+: NFP313010T634: Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov³ – Viazanie vo výške 431 943,24,- EUR⁴ – Vrátane organizácie konferencií

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

Od 1.7.2011 sa spojili komisie pre obhajobu doktorských dizertačných prác, takže dnes existujú už len tri stále matematické komisie pre obhajobu DrSc. V r. 2017 bol vymenovaný prof. RNDr. A. Dvurečenskij, DrSc. za predsedu ad hoc komisie pre obhajoby doktorských dizertačných prác v odbore vedy a techniky 010108 Pravdepodobnosť a matematická štatistika. V roku 2020 neprebehla žiadna obhajoba v tejto komisii. V roku 2021 predpokladáme podanie jednej doktorskej práce z radov pracovníkov ústavu.

Matematický ústav SAV sa venuje aktívne aj publikovaniu vedeckých matematických časopisov. Najväčšiu tradíciu má *Mathematica Slovaca*, časopis vydávaný už od roku 1951; je to medzinárodný (medzinárodná redakčná rada má 39 členov, z toho 18 zahraničných) a recenzovaný (karentovaný AMS) časopis, indexovaný v databáze SCI a SCOPUS. V roku 2008 prevzalo distribúciu časopisu vydavateľstvo Springer-Verlag (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. 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.

Vyššie 75 % prác je zamietnutých (z viac ako 550 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(2019)=0,654, päťročný impakt faktor 0,545 a je v 3. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,397 (Scimago Journal Ranking) a je v 3. 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 <http://maslo.mat.savba.sk>. Adresa časopisu na stránkach spoločnosti Springer je

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

alebo

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

Adresa časopisu na stránkach spoločnosti Versita bola

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

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

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

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

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

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

Časopis má medzinárodnú redakčnú radu (35 členov, z toho 10 zahraničných). Aj tento časopis je recenzovaný a karentovaný. Doteraz vyšlo 77 zväzkov. Od zväzku 15 sú niektoré zväzky časopisu zaradené do Current Contents - Index to Scientific Book Contents CC / Physical, Chemical and Earth Sciences. Od roku 2000 má časopis svoju vlastnú internetovú stránku, kde sú všetky informácie, abstrakty článkov od roku 1992. Od vol. 41 v r. 2008 je indexovaný v databáze WOS (Web of Science) a CPCI (Conference Proceedings Citation Index). Od r. 2011 je tento časopis indexovaný aj v databáze Scopus. Jeho SJR (Scimago Journal Ranking) má hodnotu 0,214 a je v 3. kvartile.

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

V roku 2006 začal ústav vydávať časopis Uniform Distribution Theory. V roku 2019 vyšiel 14. ročník. Adresa je <http://udt.mat.savba.sk> a <http://www.boku.ac.at/MATH/udt>. Časopis vydávame spolu s BOKU University vo Viedni. Je to vysoko špecializovaný vedný časopis, ktorý uverejňuje prevažne príspevky zahraničných autorov (95 percent). V roku 2016 sa dohodla jeho distribúciu aj cez spoločnosť De Gruyter Sciendo na adrese

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

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

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

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

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2020

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

15.2. Medzinárodné ocenenia

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

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

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

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

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

MÚ SAV je vedecká inštitúcia SR prispievajúca k rozvoju základného výskumu v matematike (najmä logika a teória množín, teória čísel, algebraické a topologické štruktúry, kvantové štruktúry diskretna 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 hnuťnej veci vo vlastníctve štátu, ktorej nadobúdacia cena bola vyššia ako 20-násobok minimálnej mzdy (§2 ods. 1 písm. b) zákona č. 90/1996 Z. z. o minimálnej mzde), ktorú MÚ SAV previedol do vlastníctva, alebo ktorá prešla do vlastníctva inej osoby než orgánu verejnej moci
- dátum prevodu alebo prechodu vlastníctva a právny titul
- informácie o osobných údajoch a iných identifikačných údajoch osôb, ktoré nadobudli tento majetok do vlastníctva, a to v rozsahu: a) meno a priezvisko, názov alebo obchodné meno; b) adresa pobytu alebo sídlo; c) identifikačné číslo, ak ide o právnickú osobu alebo fyzickú osobu –podnikateľa.

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

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

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

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

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

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

(3) Informácia môže byť sprístupnená

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

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

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

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

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

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

(7) Žiadosť o sprístupnenie informácie možno podať :

- ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava

- telefonicky na telefónnom čísle : 02 / 5751 0414
- faxom na faxové spojenie : 02 / 5249 7316
- e-mailom na adresu : mathinst@mat.savba.sk

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

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

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

(3) Evidencia obsahuje predovšetkým :

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

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

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

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

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

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

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

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

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

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

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

- a. ustanoveného obmedzenia prístupu k informáciám (§ 8 až 11 zákona),
- b. keď nie je známa taká povinná osoba, ktorá disponuje požadovanými informáciami (§ 15 ods. 1 zákona).

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

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

1. Proti rozhodnutiu ústavu o odmietnutí požadovanej informácie možno podať odvolanie v lehote 15 dní od doručenia rozhodnutia alebo márneho uplynutia lehoty na rozhodnutie o žiadosti. Odvolanie sa podáva ústavu.
2. O odvolaní proti rozhodnutiu ústavu rozhoduje riaditeľ ústavu, na základe vyjadrenia komisie, ktorú na tento účel ustanovil.
3. Riaditeľ rozhodne o odvolaní do 15 dní od jeho doručenia. Ak riaditeľ ústavu v tejto lehote nerozhodne, predpokladá sa, že vydal rozhodnutie, ktorým odvolanie zamietol a napadnuté rozhodnutie potvrdil; za deň doručenia tohto rozhodnutia sa považuje druhý deň po uplynutí lehoty na vydanie rozhodnutia.
4. Rozhodnutie o odmietnutí žiadosti možno preskúmať v súdnom konaní podľa zákona č. § 244 až 250 Občianskeho súdneho poriadku.

Sadzobník úhrad za sprístupnenie informácií

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

Internet	zadarmo
Rozmnoženie 1 ČB strany	0.03,- EUR (1,- Sk)
Rozmnoženie 1 farebnej strany	0,10,- EUR (3,- Sk)
Na diskete	0,50,- EUR (15,- Sk)
Na CD nosiči	1,33,- EUR (40,- Sk)

Prehľad všeobecne záväzných právnych predpisov, pokynov, inštrukcií, výkladových stanovísk a interných normatívnych aktov, podľa ktorých ústav koná a rozhoduje

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

17. Problémy a podnety pre činnosť SAV

Oproti roku 2019 sme zvýšili prepočítaný stav pracovníkov o 3,12, z toho 2,23 vedeckí pracovníci. To bolo dosiahnuté návratom jednej vedeckej pracovníčky z rodičovskej dovolenky, prijatím dvoch vedeckých pracovníkov, z toho jedného v poslednom štvrtroku na ústavný projekt modelovania pandémie COVID-19 a úpravou úväzkov.

Vek pracovníkov sa zvýšil o niečo viac ako 1 rok. Vzhľadom na prijatie nových a mladších pracovníkov to bolo spôsobené tým, že v stave zamestnancov už neboli niektorí doktorandi.

V hospodárení organizácie sa prejavilo výrazne jednak zvýšenie prostriedkov zo štátneho rozpočtu o celkove 12,88 % (v roku 2019 to bolo 14,28 %) a tiež získanie prostriedkov zo ŠF. Celkove sa výdavky organizácie zvýšili až o 24,08 % oproti roku 2019 (v roku 2019 to bolo 12,71 %).

V oblasti miezd sme zaznamenali výrazný rast o 29,09 % (18,67 % v roku 2019). Z rozpočtových zdrojov to bolo 15,85 %, zvyšných 13 % bolo pokrytých rastom mimorozpočtových zdrojov. Keď to zosumarizujeme, rast bol zabezpečený

- valorizácia miezd,
- vynikajúce výsledky vo výkonovom financovaní SAV, kde bol vyčíslený výkon voči rozpočtu na 128 % (najviac v 1. Oddelení vied SAV, tretí v SAV za Ústavom polymérov a Ústavom etnológie a sociálnej antropológie SAV),
- rast mimorozpočtových zdrojov.

V tovaroch a službách sme zaznamenali rast o 3,35 % oproti roku 2019 zo zdroja 111, t.j. rozpočtu. Celkový bol rast o 8,4 % vďaka 11,3,4 % rastu v mimorozpočtových zdrojoch (APVV a ŠF).

V APVV sme zaznamenali ďalší pokles o 13,8 % voči roku 2019. Zaznamenali sme nárast počtu APVV grantov, ale v tejto oblasti musíme úsilie ešte zvýšiť.

V projektoch VEGA sme zaznamenali pokles o 7,5 %, ktorý bol spôsobený ďalším znížením kapacity riešiteľov.

Z finančného hľadiska bol rok 2020 veľmi úspešný, hlavne v oblasti miezd (+29,09 %). Bolo to hlavne vďaka zvýšenému rozpočtu a získaniu prostriedkov zo ŠF.

Vzhľadom na očakávaný pokles prostriedkov z rozpočtu v roku 2021 predpokladáme, že sa nám podarí udržať mzdy vo výške roku 2020 z prostriedkov získaných zo ŠF.

Za veľmi dôležitý považujeme prechod na vvi v najkratšom možnom termíne, najlepšie 1. 1. 2022.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám. V ďalších rokoch je nevyhnutné zabezpečiť centrálnu dohodu s veľkými vydavateľstvami typu „read and publish“, aby sme zabezpečili publikovanie Open Access za výhodných podmienok.

Matematický ústav SAV zabezpečil prístup do databázy Zentralblatt MATH, Nemecko. Prístup do databázy sekundárnych informačných údajov MathSci, USA sme pre nedostatok prostriedkov v roku 2018 neobnovili.

Matematický ústav venuje veľkú pozornosť popularizácii matematiky a matematických výsledkov. Popularizačná aktivita ústavu sa v posledných rokoch zvyšuje, čo vidieť na mnohých popularizačných vystúpeniach v tlačových médiách ako aj na obrazovkách televízií alebo v rozhlase a to nielen v rámci Týždňa vedy. V r. 2020 pre striktné protipandemické opatrenia kvôli šíreniu Covid 19 sme neorganizovali 12. ročník Dňa otvorených dverí na MÚ SAV, ktorý by ináč štandardne sa konal na ústave v Bratislave a v jeho detašovanom pracovisku Košiciach. Ústav je zapojený aj do projektu popularizácie vedy na základných školách, ktorý garantuje SAV.

Vážnym problémom je získavanie mladých pracovníkov (PhD. študentov aj postdokov) na úrovni ústavu, ale aj celej SAV.

Správu o činnosti organizácie SAV spracoval(i):

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

Schválila vedecká rada organizácie SAV dňa 29.1.2021

Riaditeľ organizácie SAV

Predseda vedeckej rady

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

.....
Mgr. Anna Jenčová, DrSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2020****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. Roman Frič, DrSc.	50	0.50
3.	doc. RNDr. Ľubica Holá, DrSc.	100	1.00
4.	prof. RNDr. Juraj Hromkovič, DrSc.	100	0.00
5.	RNDr. Stanislav Jakubec, DrSc.	50	0.50
6.	Mgr. Anna Jenčová, DrSc.	100	1.00
7.	prof. RNDr. Roman Nedela, DrSc.	45	0.45
8.	doc. RNDr. Sylvia Pulmannová, DrSc.	100	1.00
9.	doc. RNDr. Oto Strauch, DrSc.	100	0.80
10.	prof. RNDr. Marian Vajtersíc, DrSc.	100	0.00
11.	prof. RNDr. Gejza Wimmer, DrSc.	100	0.72
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.	Mgr. Natália Dilna, PhD.	100	1.00
3.	RNDr. Stefan Dobrev, PhD.	100	1.00
4.	prof. RNDr. Michal Fečkan, DrSc.	50	0.35
5.	doc. RNDr. Ján Haluška, CSc.	100	1.00
6.	prof. RNDr. Miroslav Haviar, CSc.	11	0.04
7.	RNDr. Galina Jirásková, CSc.	100	1.00
8.	doc. Mgr. Ján Karabáš, PhD.	20	0.15
9.	prof. RNDr. Július Korbaš, CSc.	3	0.03
10.	doc. RNDr. Karol Nemoga, CSc.	100	1.00
11.	doc. Ing. Gabriel Okša, CSc.	100	1.00
12.	doc. RNDr. Milan Paštéka, CSc.	3	0.03
13.	RNDr. Jozef Pócs, PhD.	100	1.00

Samostatní vedeckí pracovníci (pokr.)			
14.	RNDr. Michal Pospíšil, PhD.	20	0.20
15.	doc. RNDr. Miroslav Repický, CSc.	100	1.00
16.	Mgr. Andrea Zemánková, PhD.	100	1.00
Vedeckí pracovníci			
1.	doc. RNDr. Vladimír Baláž, CSc.	1	0.01
2.	doc. Mgr. Pavol Bokes, PhD.	13	0.13
3.	RNDr. Katarína Čunderlíková, PhD.	80	0.35
4.	RNDr. Vladimír Dančík, PhD.	100	0.00
5.	RNDr. Peter Eliaš, PhD.	100	1.00
6.	doc. RNDr. Rudolf Hajossy, CSc.	32	0.32
7.	RNDr. Emília Halušková, CSc.	100	1.00
8.	Ing. Michal Hospodár, PhD.	100	1.00
9.	Mgr. Marek Hyčko, PhD.	100	1.00
10.	Mgr. Michaela Koščová, PhD.	5	0.00
11.	Mgr. Marek Košta, PhD.	100	0.00
12.	doc. Mgr. Tibor Macko, PhD.	25	0.25
13.	doc. Mgr. Ján Mačutek, PhD.	100	1.00
14.	RNDr. Alžbeta Michalíková, PhD.	3	0.03
15.	Mgr. Peter Mlynárčik, PhD.	11	0.06
16.	Ing. Igor Mračka, PhD.	100	1.00
17.	Mgr. Branislav Novotný, PhD.	100	1.00
18.	RNDr. Igor Odrobina, CSc.	100	0.25
19.	Mgr. Matúš Palmovský, PhD.	3	0.03
20.	doc. PaedDr. Martin Papčo, PhD.	5	0.05
21.	RNDr. Jozefína Petrovičová, PhD.	5	0.01
22.	RNDr. Martin Plávala, PhD.	100	0.00
23.	Mgr. Eva Plávalová, PhD.	3	0.03
24.	Mgr. Ladislav Stacho, CSc.	100	0.00
25.	doc. Ondrej Šuch, PhD., M.Sc.	25	0.25
26.	Mgr. Elena Vinceková, PhD.	100	1.00
27.	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. Iveta Červenková	33	0.27
3.	Ing. Peter Sýs	3	0.03
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Zdeno Grešo	60	0.53
2.	RNDr. Dana Kákošová	100	1.00
3.	RNDr. Alexandra Mojžišová, PhD.	100	1.00
4.	Ing.arch. Terézia Sedláková	59	0.00
Odborní pracovníci ÚSV			
1.	Marianna Bečková	60	0.35
2.	Jana Galbová	60	0.60
3.	Ivana Geriaková	100	1.00
4.	Ivana Hudecová	60	0.60
5.	Zuzana Kvapilová	100	1.00
6.	Katarína Nagyová	60	0.60
7.	Eugénia Ondrušková	100	1.00
8.	Bc. Henrieta Paľová	24	0.24
9.	Katarína Štefančíková	100	1.00
Ostatní pracovníci			
1.	Janka Badiarová	33	0.33
2.	Lucia Mišíková	36	0.36
3.	Ing. Juraj Prochác	100	0.37
4.	Beata Szabová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	Mgr. Štefan Gyürki, PhD.	31.8.2020	0.05
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Dušana Babicová	31.8.2020	0.00
2.	Mgr. Ján Bogár	7.12.2020	0.09
3.	Mgr. Ing. Jean Rosemond Dora	28.2.2020	0.17
4.	Mgr. Ivana Krajňáková	31.8.2020	0.00

Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Ján Kysel	31.8.2020	0.66
Odborní pracovníci ÚSV			
1.	Silvia Gavorová	31.5.2020	0.80
2.	Ing. Daniel Solčiansky	31.1.2020	0.60
Ostatní pracovníci			
1.	Blažena Puterová	31.5.2020	0.19

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Ing. Ferdinand Čapka	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
2.	Mgr. Jean Rosemond Dora	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
3.	Ing. Peter Sýs	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
Interní doktorandi hrazení z jiných zdrojů			
<i>organizácia nemá interných doktorandov hrazených z jiných zdrojů</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

	Meno s titulmi
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Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Matematické modely neurčitosti a ich aplikácie (*Mathematical models of uncertainty and their applications*)

Zodpovedný riešiteľ: Alžbeta Michalíková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Matematický ústav SAV / Systems Research Institute PAN
Počet spoluriešiteľských inštitúcií: 2 - Poľsko: 1, Slovensko: 1
Čerpané financie: -

Dosiahnuté výsledky:

1. CUVALCIOGLU, G., BUREVA, V., MICHALÍKOVÁ, A.: *Intercriteria analysis applied to university ranking system of Turkey*. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 4, p. 90-97. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2019.25.4.90-97>
2. ČUNDERLÍKOVÁ, K.: *Martingale Convergence Theorem for the Conditional Intuitionistic Fuzzy Probability*. In Mathematics, 2020, vol. 8, issue 10, p. 1-10. ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8101707>
3. ČUNDERLÍKOVÁ, K.: *Individual ergodic theorem for intuitionistic fuzzy observables using IF-probability*. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 4, p. 37-47. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2019.25.4.37-47>
4. ČUNDERLÍKOVÁ, K.: *Conditional intuitionistic fuzzy probability and martingale convergence theorem using IF-probability*. In Notes on Intuitionistic Fuzzy Sets, 2020, vol. 26, no. 3, p. 13-21. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2020.26.3.13-21>
5. MICHALÍKOVÁ, A.: *Intuitionistic fuzzy negations and their use in image classification*. In Notes on Intuitionistic Fuzzy Sets, 2020, vol. 26, no. 3, p. 22-32. ISSN 1310-4926. Dostupné na: <https://doi.org/10.7546/nifs.2020.26.3.22-32>
6. MICHALÍKOVÁ, A., RIEČAN, B.: *On States on Fuzzy MV-algebra*. In Advances in Intelligent Systems and Computing. Uncertainty and Imprecision in Decision Making and Decision Support: New Challenges, Solutions and Perspectives. - Cham : Springer, 2020, 2020, vol. 1081, p. 40-46. ISBN 978-3-030-47023-4. ISSN 2194-5357. Dostupné na: https://doi.org/10.1007/978-3-030-47024-1_5

Programy: ERANET

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

Zodpovedný riešiteľ:	Branislav Novotný
Trvanie projektu:	1.6.2018 / 31.5.2021
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	Nie
Koordinátor:	Biodonostia Health Research Institute, Computational Biology and Systems Biomedicine Group
Počet spoluriešiteľských inštitúcií:	7 - Rakúsko: 2, Nemecko: 1, Španielsko: 1, Veľká Británia: 2, Slovensko: 0, Slovinsko: 1
Čerpané financie:	ERA.NET: 20000 €

Dosiahnuté výsledky:

Výskumný tím sa zúčastnil projektového stretnutia a navštívil projektových partnerov v Biodonostii HRI v San Sebastiane medzi 29. 1. a 2. 2. 2020. V rámci stretnutia výskumný tím oboznámil partnerov s ich výsledkami transformácie fuzzy-logiky na základe súbory génovej expresie. Kľúčovou ingredienciou prístupu fuzzy logiky je optimalizácia vhodného radu krokových funkcií v rozsahu parametrov. Optimalizácia v rámci priestoru krokovej funkcie má dôsledky na riadenie stochastickej génovej expresie, ktoré boli predstavené v [1]. Ďalšie teoretické výsledky distribúcie génovej expresie boli zverejnené v [2].

[1] Zabaikina, Iryna, Pavol Bokes, and Abhyudai Singh. "Optimal bang–bang feedback for bursty gene expression." In 2020 European Control Conference (ECC), pp. 277-282. IEEE, 2020.

[2] Bokes, Pavol, Alessandro Borri, Pasquale Palumbo, and Abhyudai Singh. "Mixture distributions in a stochastic gene expression model with delayed feedback: a WKB approximation approach." *Journal of Mathematical Biology* 81, no. 1 (2020): 343-367.

Domáce projekty

Programy: VEGA

1.) Modely a algoritmy pre výpočty s neúplnou informáciou (*Models and algorithms for computing with incomplete information*)

Zodpovedný riešiteľ:	Stefan Dobrev
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	VEGA 1/0601/20
Organizácia je koordinátorom projektu:	Nie
Koordinátor:	FMFI UK
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 2031 €

Dosiahnuté výsledky:

1. DOBREV, Stefan - KRÁLOVIČ, Rastislav** - PARDUBSKÁ, Dana. Improved Lower Bounds for Shoreline Search. In Lecture Notes in Computer Science : SIROCCO 2020, 2020, vol. 12156, p. 80-90. (2019: 0.427 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-030-54921-3_5
2. DOBREV, Stefan - KRÁLOVIČ, Rastislav - PARDUBSKÁ, Dana. Exploration of Time-Varying Connected Graphs with Silent Agents. In Lecture Notes in Computer Science : SIROCCO 2020, 2020, vol. 12156, p. 146-162. (2019: 0.427 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-030-54921-3_9

2.) Kvalitatívne vlastnosti a bifurkácie diferenciálnych rovníc a dynamických systémov
(Qualitative properties and bifurcations of differential equations and dynamical system)

Zodpovedný riešiteľ:	Michal Fečkan
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	VEGA 2/0127/20
Organizácia je koordinátorom projektu:	Áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7920 €

Dosiahnuté výsledky:

1. BATTELLI, Flaviano - FEČKAN, Michal. On the Poincare-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations. In Journal of differential equations, 2020, vol. 268, p. 3725-3748. (2019: 2.192 - IF, Q1 - JCR, 2.283 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-0396. Dostupné na: <https://doi.org/10.1016/j.jde.2019.10.014>
2. BATTELLI, Flaviano - FEČKAN, Michal. On the exponents of exponential dichotomies. In Mathematics, 2020, vol. 8, no. 651, p. 1-13. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8040651>
3. BATTELLI, Flaviano - FEČKAN, Michal. On the Poincaré-Andronov-Melnikov method for modelling of grazing periodic solutions in discontinuous systems. In Mathematical Modelling in Health, Social and Applied Sciences. - Cham : Springer, 2020, p. 241-259. ISBN 978-981-15-2286-4.
4. Dostupné na: https://doi.org/10.1007/978-981-15-2286-4_7
4. DILNA, Nataliya - FEČKAN, Michal** - SOLOVYOV, Mykola. D-Stability of the Initial Value Problem for Symmetric Nonlinear Functional Differential Equations. In Symmetry-Basel, 2020, vol. 12, no. 1761, p. 1-19. (2019: 2.645 - IF, Q2 - JCR, 0.365 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-8994. Dostupné na: <https://doi.org/10.3390/sym12111761>
5. DILNA, Nataliya. On Non-local Boundary-Value Problems for Higher-Order Non-linear Functional Differential Equations. In Springer Proceedings in Mathematics and Statistics 333 : Differential and Difference Equations with Applications. - Springer, 2020, 2020, p. 535-548. ISBN 978-3-030-56323-3. Dostupné na: https://doi.org/10.1007/978-3-030-56323-3_40

6. FEČKAN, Michal** - SATHIYARAJ, T. - WANG, JinRong. Synchronization of butterfly fractional order chaotic system. In *Mathematics*, 2020, vol. 8, no. 3, p. 1-12. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8030446>
7. FEČKAN, Michal - GUAN, Yi - O'REGAN, Donal - WANG, JinRong**. Existence and uniqueness and first order approximation of solutions to atmospheric Ekman flows. In *Monatshefte für Mathematik*, 2020, vol. 193, p. 623-636. (2019: 0.933 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-020-01414-7>
8. FEČKAN, Michal** - PAČUTA, Július. Averaging methods for second-order differential equations and their application for impact systems. In *Mathematics*, 2020, vol. 8, no. 916, p. 1-11. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8060916>
9. FEČKAN, Michal** - MARYNETS, Kateryna. Study of differential equations with exponential nonlinearities via the Lower and Upper Solutions Method. In *Numerical Analysis and Applicable Mathematics*, 2020, vol. 1, no. 2, p. 1-7. Dostupné na: <https://doi.org/10.36686/Ariviyal.NAAM.2020.01.02.007>
10. KAJANOVIČOVÁ, Viktória - NOVOTNÝ, Branislav** - POSPÍŠIL, Michal. Ramsey model with non-constant population growth. In *MATH SOC SCI*, 2020, vol. 104, p. 40-46. (2019: 0.669 - IF, Q4 - JCR, 0.473 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0165-4896. Dostupné na: <https://doi.org/10.1016/j.mathsocsci.2020.01.004>
11. LIU, Kui - WANG, JinRong - O'REGAN, Donal - FEČKAN, Michal. A New Class of (φ, c) -Periodic Non-instantaneous Impulsive Differential Equations. In *Mediterranean Journal of Mathematics*, 2020, vol. 17, art. no. 155, p. 1-22. (2019: 1.216 - IF, Q1 - JCR, 0.573 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1660-5446. Dostupné na: <https://doi.org/10.1007/s00009-020-01574-8>
12. LIU, Kui - FEČKAN, Michal** - WANG, JinRong. A fixed-point approach to the Hyers-Ulam stability of Caputo-Fabrizio fractional differential equations. In *Mathematics*, 2020, vol. 8, no. 647, p. 1-12. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8040647>
13. LIU, Kui - FEČKAN, Michal** - WANG, JinRong. Hyers-Ulam stability and existence of solutions to the generalized Liouville-Caputo fractional differential equations. In *Symmetry-basel*, 2020, vol. 12, no. 955, p. 1-18. (2019: 2.645 - IF, Q2 - JCR, 0.365 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-8994. Dostupné na: <https://doi.org/10.3390/sym12060955>
14. POSPÍŠIL, Michal**. Representation of solutions of systems of linear differential equations with multiple delays and nonpermutable variable coefficients. In *Mathematical Modelling and Analysis*, 2020, vol. 25, no. 2, p. 303-322. (2019: 0.957 - IF, Q2 - JCR, 0.351 - SJR, Q3 - SJR). ISSN 1392-6292. Dostupné na: <https://doi.org/10.3846/mma.2020.11194>

15. SATHIYARAJ, T. - FEČKAN, Michal - WANG, JinRong. Null controllability results for stochastic delay systems with delayed perturbation of matrices. In *Chaos, Solitons and Fractals*, 2020, vol. 138, 109927, p. 1-11. (2019: 3.764 - IF, Q1 - JCR, 1.036 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0960-0779. Dostupné na: <https://doi.org/10.1016/j.chaos.2020.109927>

16. SHER, Muhammad - SHAH, Kamal - FEČKAN, Michal** - RAHMAT ALI, Khan. Qualitative analysis of multi-terms fractional order delay differential equations via the topological degree theory. In *Mathematics*, 2020, vol. 8, no. 218, p. 1-13. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8020218>

17. SI, Yuanchao - WANG, JinRong** - FEČKAN, Michal. Controllability of linear and nonlinear systems governed by Stieltjes differential equations. In *Applied Mathematics and Computation*, 2020, vol. 376, p. 1-24. (2019: 3.472 - IF, Q1 - JCR, 0.969 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0096-3003. Dostupné na: <https://doi.org/10.1016/j.amc.2020.125139>

18. WANG, JinRong - FEČKAN, Michal. Dynamics of a discrete nonlinear prey-predator model. In *International Journal of Bifurcation and Chaos*, 2020, vol. 30, no. 4, art. no. 2050055, p. 1-15. (2019: 2.469 - IF, Q2 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0218-1274. Dostupné na: <https://doi.org/10.1142/S0218127420500558>

19. WANG, JinRong - LI, Mengmeng - O'REGAN, Donal - FEČKAN, Michal**. Robustness for linear evolution equations with non-instantaneous impulsive effects. In *Bulletin des sciences mathématiques*, 2020, vol. 159, p. 1-47. (2019: 1.241 - IF, Q2 - JCR, 0.810 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0007-4497. Dostupné na: <https://doi.org/10.1016/j.bulsci.2019.102827> <https://doi.org/10.1016/j.bulsci.2019.102827>

20. WANG, Xiaowen - WANG, JinRong - FEČKAN, Michal. Controllability of conformable differential systems. In *Nonlinear Analysis : Modelling and Control*, 2020, vol. 25, no. 4, p. 658-674. (2019: 2.780 - IF, Q1 - JCR, 0.757 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1392-5113. Dostupné na: <https://doi.org/10.15388/namc.2020.25.18135>

21. WANG, Xu - WANG, JinRong - FEČKAN, Michal**. BP neural network calculus in economic growth modelling of the group of seven. In *Mathematics*, 2020, vol. 8, no. 37, p. 1-11. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8010037>

22. YANG, Peng - WANG, JinRong** - FEČKAN, Michal. Boundedness, periodicity, and conditional stability of noninstantaneous impulsive evolution equations. In *Mathematical Methods in the Applied Sciences*, 2020, vol. 43, p. 5905-5926. (2019: 1.626 - IF, Q2 - JCR, 0.667 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0170-4214. Dostupné na: <https://doi.org/10.1002/mma.6332>

23. YOU, Zhongli - FEČKAN, Michal - WANG, JinRong**. Relative controllability of fractional delay differential equations via delayed perturbation of Mittag-Leffler functions. In *Journal of Computational and Applied Mathematics*, 2020, vol. 378, p. 1-16. (2019: 2.037 - IF, Q1 - JCR, 0.870 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0377-0427. Dostupné na: <https://doi.org/10.1016/j.cam.2020.112939>

24. ZHANG, Wenlin - WANG, JinRong** - FEČKAN, Michal. Existence and uniqueness results for a second order differential equation for the ocean flow in arctic gyres. In Monatshefte für Mathematik, 2020, vol. 193, no. 1, p. 177-192. (2019: 0.933 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-020-01388-6>
25. ZHANG, Wenlin - FEČKAN, Michal - WANG, JinRong**. Positive solutions to integral boundary value problems from geophysical fluid flows. In Monatshefte für Mathematik, 2020, vol. 193, p. 901-925. (2019: 0.933 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0026-9255. Dostupné na: <https://doi.org/10.1007/s00605-020-01467-8>
26. FELAHAT, M. - KADKHODA, Nematollah - FEČKAN, Michal**. Investigation of solutions to the fractional integro-differential equations of Bratu-type using legendre wavelets method. In Miskolc Mathematical Notes, 2020, vol. 21, no. 1, p. 189-202. (2019: 0.677 - IF, Q3 - JCR, 0.312 - SJR, Q3 - SJR). ISSN 1787-2405. Dostupné na: <https://doi.org/10.18514/MMN.2020.2994>
27. AGAOGLOU, Makrina - FEČKAN, Michal** - PANAGIOTIDOU, Angeliki P. Existence and uniqueness of (τ, c) -periodic solutions of semilinear evolution equations. In International Journal of Dynamical Systems and Differential Equations : Int J Dynamical Systems and Differential Equations, 2020, vol. 10, no. 2, p. 149-166. (2019: 0.144 - SJR, Q3 - SJR). ISSN 1752-3583. Dostupné na: <https://doi.org/10.1504/IJDSDE.2020.106027>
28. LIU, Shengda - WANG, JinRong** - SHEN, Dong - FEČKAN, Michal. Iterative learning control for nonlinear differential inclusion systems. In International Journal of Robust and Nonlinear Control, 2020, vol. 30, p. 2937-2952. (2019: 3.503 - IF, Q1 - JCR, 1.631 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1049-8923. Dostupné na: <https://doi.org/10.1002/rnc.4920>

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

Zodpovedný riešiteľ:	Stanislav Jakubec
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	VEGA 2/0109/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 7785 €

Dosiahnuté výsledky:

1. M. Paštéka: Central limit theorem and the distribution of sequences, Tatra Mt. Math. Publ. 77 (2020), 43-52.

4.) Matematické modely neklasických javov a neurčitosti (*Mathematical models of non-classical events and uncertainty*)

Zodpovedný riešiteľ: Anna Jenčová
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: VEGA 2/0142/20
Organizácia je áno
koordinátorom projektu:
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA SAV: 12936 €

Dosiahnuté výsledky:

Publikácie:

1. A. Jenčová and M. Plávala. "Structure of quantum and classical implementations of the Popescu-Rohrlich box. " *Physical Review A* 102.4 (2020): 042208.
2. A. Jenčová and S. Pulmannová. "Tensor product of dimension effect algebras." *Order* (2020): 1-13.
3. A. Jenčová and S. Pulmannová. "Observables on synaptic algebras." *Fuzzy Sets and Systems* (2020).
4. M. Kalina, Aggregation Functions Transformed by 0 - 1 Valued Monotone Systems of Functions. In: Lesot MJ. et al. (eds) *Information Processing and Management of Uncertainty in Knowledge-Based Systems. IPMU 2020. Communications in Computer and Information Science*, vol 1238. Springer (2020)
5. M. Kalina, "Lattice-based sum of uninorms on bounded lattices." 2020 IEEE 18th International Symposium on Intelligent Systems and Informatics (SISY). IEEE, 2020.
6. D. Hliněná and M. Kalina. "Characterization of Uninorms on Bounded Lattices and Pre-order They Induce." *International Journal of Computational Intelligence Systems* (2020).
7. A. Dvurečenskij, "States on wEMV-algebras." *Bollettino dell'Unione Matematica Italiana* 13.4 (2020): 515-527.

M. Plávala, M. Ziman, "Popescu-Rohrlich box implementation in general probabilistic theory of processes," 8. *Phys. Lett. A*, vol. 384, no. 16, p. 126323, Jun. 2020.

Zaslané na publikovanie:

1. G. Aubrun, L. Lami, C. Palazuelos, M. Plávala, "Entangleability of cones", Submitted to *Geometric and Functional Analysis*.
2. M. Girard, M. Plávala, J. Sikora, "Jordan products of quantum channels and their compatibility", 2020. Submitted to *Nature Communications*
3. A. Jenčová, "A general theory of comparison of quantum channels (and beyond)." arXiv preprint arXiv:2002.04240 (2020), submitted to *IEEE Transactions on Information Theory*

5.) Popisná a výpočtová zložitosť formálnych jazykov (*Descriptive and Computational Complexity of Formal Languages*)

Zodpovedný riešiteľ: Galina Jirásková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: VEGA 2/0132/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 6584 €

Dosiahnuté výsledky:

1. Jirásek J., Jirásková G. (2020) Multiple concatenation and state complexity (extended abstract). In: Jirásková G., Pighizzini G. (eds) Descriptive Complexity of Formal Systems. DCFS 2020. Lecture Notes in Computer Science, vol 12442, pp. 122-136. Springer, Cham. https://doi.org/10.1007/978-3-030-62536-8_7
2. Hospodár M., Mlynárčik P. (2020) Operations on permutation automata. In: Jonoska N., Savchuk D. (eds) Developments in Language Theory. DLT 2020. Lecture Notes in Computer Science, vol 12086, pp. 78-90. Springer, Cham. https://doi.org/10.1007/978-3-030-48516-0_10
3. Hospodár M., Holzer M. (2020) The ranges of accepting state complexities of languages resulting from some operations. International Journal of Foundations of Computer Science, vol. 31/08, 1159–1177. World Scientific, Singapore. <https://doi.org/10.1142/S0129054120420083>

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

Zodpovedný riešiteľ: Martin Kochol
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: VEGA 2/0024/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1294 €

Dosiahnuté výsledky:

1. KOCHOL, M.: Interpretations of the Tutte polynomials of regular matroids, Advances in Applied Mathematics, vol. 111 (2019), 101934 (ADCA).
2. KOCHOL, M.: Modifications of Tutte-Grothendieck invariants and Tutte polynomials, AKCE International Journal of Graphs and Combinatorics, vol. 17 (2020), str. 70–73 (ADMB).

7.) Grafové invarianty, symetrie a ohodnotenia (*Graph invariants, symmetries and labellings*)

Zodpovedný riešiteľ: Roman Nedela
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: VEGA 2/0078/20
Organizácia je koordinátorom projektu: Áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA SAV: 970 €

Dosiahnuté výsledky:

1. FENG, Yan-Quan - HU, Kan - NEDELA, Roman - ŠKOVIERA, Martin - WANG, Na-Er. Complete regular dessins and skew-morphisms of cyclic groups. In *Ars Mathematica Contemporanea*, 2020, vol. 18, p. 289-307.

8.) Konvergencia blokových algoritmov pre kanonické dekompozície matíc

Zodpovedný riešiteľ: Gabriel Okša
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: 2/0015/20
Organizácia je koordinátorom projektu: Áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4491 €

Dosiahnuté výsledky:

Článok zaslaný na publikovanie:

1. Y.Yamamoto, G. Oksa, M. Vajtersic: On convergence to eigenvalues and eigenvectors in the block-Jacobi EVD algorithm with dynamic ordering, zaslane do "Linear Algebra and Its Applications" (Elsevier).

9.) Algebrické a topologické aspekty agregáčnych funkcií

Zodpovedný riešiteľ: Jozef Pócs
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: VEGA 2/0097/20
Organizácia je koordinátorom projektu: Áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9702 €

Dosiahnuté výsledky:

1. P. Eliaš, R. Frič, Conditional probability on full Łukasiewicz tribes, Soft Computing, 2020, vol. 24, p. 6521-6529.
2. R. Frič, P. Eliaš, M. Papčo, Divisible extension of probability, Math. Slovaca 70 (2020), 1445–1456. doi: [10.1515/ms-2017-0441](https://doi.org/10.1515/ms-2017-0441)

Články zaslané na publikovanie:

1. M. Repický: Rosenthal families, filters, and semifilters, odoslané do Archive for Mathematical Logic.
2. R. Halaš, Z. Kurač, J. Pócs: On the minimality of some generating sets of the aggregation clone on a finite chain, odoslané do Information Sciences.
3. J. Pócs, J. Pócsová: On Bonds for Generalized One-Sided Concept Lattices, odoslané do Mathematics.

10.) Drevený píšťalový fond historických organových pozitívov na Slovensku (Wooden pipe configuration of historic organ positives in Slovakia)

Zodpovedný riešiteľ:	Andrej Štafura
Zodpovedný riešiteľ v organizácii SAV:	Ján Haluška
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0106/19
Organizácia je koordinátorom projektu:	Nie
Koordinátor:	Ústav hudobnej vedy SAV
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	-

Dosiahnuté výsledky:

Príspevok na konferencii: **HALUŠKA, J.:** *Matematické možnosti analýzy organových menziúr na príklade gemerských organov*, interdisciplinárna konferencia: "Kultúrne dedičstvo Gemera a Malohontu a jeho sprístupňovanie", Revúca, 8.-9. 9. 2020.

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

Zodpovedný riešiteľ:	Ondrej Šuch
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	VEGA 2/0144/18
Organizácia je koordinátorom projektu:	Áno

Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 431 €
Dosiahnuté výsledky:

1. Daubner, J., Klimo, M., Papán, J., Smieško, J., Šuch, O., On the distribution of queue length in ideal links, Concurrency Computation 32(13) (2020), e5203.

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

Zodpovedný riešiteľ: Gejza Wimmer
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: 2/0054/18
Organizácia je koordinátorom projektu: Áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA SAV: 5714 €

Dosiahnuté výsledky:

V. Witkovský, G. Wimmer, T. Duby, Estimating the distribution of a stochastic sum of IID random variables, Mathematica Slovaca, 70 (2020), 759–774.

13.) Nové trendy v teórii agregovania a ich aplikácie

Zodpovedný riešiteľ: Andrea Zemánková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 1/0006/19
Organizácia je koordinátorom projektu: nie
Koordinátor: Stavebná fakulta STU
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA SAV: 2031 €

Dosiahnuté výsledky:

Prijaté publikácie

1. A. Mesiarová-Zemánková, Natural partial order induced by a commutative, associative and idempotent function. Information Sciences 545 (2021), 499–512, IF: 3.643

2. A. Mesiarová-Zemánková, Convex combinations of uninorms and triangular subnorms, Fuzzy Sets and Systems, <https://doi.org/10.1016/j.fss.2020.10.011> IF: 3.305
3. A. Mesiarová-Zemánková, The n-uninorms with continuous underlying t-norms and t-conorms, International Journal of General Systems, <https://doi.org/10.1080/03081079.2020.1863395> IF: 1.671
4. A. Mesiarová-Zemánková, Characterization of idempotent n-uninorms, Fuzzy Sets and Systems. <https://doi.org/10.1016/j.fss.2020.12.019> IF: 3.305

Zaslané publikácie

1. A. Mesiarová-Zemánková, Characterizing functions of n-uninorms with continuous underlying functions, IEEE Transactions on Fuzzy Systems. (IF: 9.518)
2. A. Mesiarová-Zemánková, Characterization of n-uninorms with continuous underlying functions via z-ordinal sum construction, International Journal of Approximate Reasoning. (IF: 2.678)
3. R. Fernandez-Peralta, S. Massanet, A. Mesiarová-Zemánková, A. Mir, A general framework for the characterization of (S,N)-implications with a non-continuous negation based on completions of t-conorms, Fuzzy Sets and Systems. (IF: 3.305)

Programy: APVV

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

Zodpovedný riešiteľ:	Anatolij Dvurečenskij
Trvanie projektu:	1.7.2017 / 30.6.2021
Evidenčné číslo projektu:	APVV-16-0073
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 31907 €

Dosiahnuté výsledky:

1. A. Dvurečenskij, D. Lachman, Spectral resolutions and observables in n-perfect MV-algebras, Soft Computing 24 (2020), 843--860. DOI: [10.1007/s00500-019-04543-w](https://doi.org/10.1007/s00500-019-04543-w) CC
2. A. Dvurečenskij, D. Lachman, Two-dimensional observables and spectral resolutions, Rep. Math. Phys. 85 (2020), 163—191. CC
3. A. Dvurečenskij, D. Lachman, Spectral resolutions and quantum observables, Inter. J. Theor. Phys. 59 (2020), 2362--2383. DOI: [10.1007/s10773-020-04507-z](https://doi.org/10.1007/s10773-020-04507-z) CC

4. A. Dvurečenskij, D. Lachman, Lifting, n-dimensional spectral resolutions, and n-dimensional observables, *Algebra Universalis* 34 (2020), Art. Num. 34, DOI: [10.1007/s00012-020-00664-8](https://doi.org/10.1007/s00012-020-00664-8) SCI
5. A. Dvurečenskij, States on wEMV-algebras, *Boll. Unione Matem. Italiana* 13 (2020), 515--527. DOI: [10.1007/s40574-020-00233-w](https://doi.org/10.1007/s40574-020-00233-w) SCI
6. G. Jenča, Pseudo effect algebras are algebras over bounded posets, *Fuzzy Sets and Systems* 397 (2020), 179-185. CC
7. R. Carbone, A. Jenčová, On period, cycles and fixed points of a quantum channel. *Annales Henri Poincaré* 21 (2020), 155-188. CC
8. A. Jenčová, M. Plávala, Structure of quantum and classical implementations of the Popescu-Rohrlich box, *Physical Review A* 102 (2020), art. nr. 42208. CC
9. M. Plávala, M. Ziman, Popescu-Rohrlich box implementation in general probabilistic theory of processes, *Physics Letters A* 384 (2020), art. nr. 126323. CC
10. Eliaš, P. Frič, R.: Conditional probability on full Lukasiewicz tribes. *Soft Comput.* 24 (2020), 6521—6529. CC
11. R. Frič, P. Eliaš, M. Papčo, Divisible extension of probability, *Math. Slovaca* 70 (2020), 1445 – 1456. DOI: [10.1515/ms-2017-0441](https://doi.org/10.1515/ms-2017-0441) SCI

Prijaté publikácie

1. A. Mesiarová-Zemánková, Natural partial order induced by a commutative, associative and idempotent function. *Information Sciences* 545 (2021), 499–512, IF: 3.643
2. A. Mesiarová-Zemánková, Convex combinations of uninorms and triangular subnorms, *Fuzzy Sets and Systems*, <https://doi.org/10.1016/j.fss.2020.10.011> IF: 3.305
3. A. Mesiarová-Zemánková, The n-uninorms with continuous underlying t-norms and t-conorms, *International Journal of General Systems*, <https://doi.org/10.1080/03081079.2020.1863395> IF: 1.671
4. A. Mesiarová-Zemánková, Characterization of idempotent n-uninorms, *Fuzzy Sets and Systems*. <https://doi.org/10.1016/j.fss.2020.12.019> IF: 3.305

Zaslané publikácie

1. A. Mesiarová-Zemánková, Characterizing functions of n-uninorms with continuous underlying functions, *IEEE Transactions on Fuzzy Systems*. (IF: 9.518)
2. A. Mesiarová-Zemánková, Characterization of n-uninorms with continuous underlying functions via z-ordinal sum construction, *International Journal of Approximate Reasoning*. (IF: 2.678)
3. R. Fernandez-Peralta, S. Massanet, A. Mesiarová-Zemánková, A. Mir, A general framework for the characterization of (S,N)-implications with a non-continuous negation based on completions of t-conorms, *Fuzzy Sets and Systems*. (IF: 3.305)

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

Zodpovedný riešiteľ: Galina Jirásková
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0091
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta, Univerzita Pavla Jozefa Šafárika v Košiciach
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 6217 €

Dosiahnuté výsledky:

1. Jirásek J., Jirásková G. (2020) Multiple concatenation and state complexity (extended abstract). In: Jirásková G., Pighizzini G. (eds) Descriptive Complexity of Formal Systems. DCFS 2020. Lecture Notes in Computer Science, vol 12442, pp. 122-136. Springer, Cham. https://doi.org/10.1007/978-3-030-62536-8_7
2. Hospodár M., Mlynárčik P. (2020) Operations on permutation automata. In: Jonoska N., Savchuk D. (eds) Developments in Language Theory. DLT 2020. Lecture Notes in Computer Science, vol 12086, pp. 78-90. Springer, Cham. https://doi.org/10.1007/978-3-030-48516-0_10
3. Hospodár M., Holzer M. (2020) The ranges of accepting state complexities of languages resulting from some operations. International Journal of Foundations of Computer Science, vol. 31/08, 1159–1177. World Scientific, Singapore. <https://doi.org/10.1142/S0129054120420083>

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

Zodpovedný riešiteľ: Tibor Macko
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0053
Organizácia je koordinátorom projektu: Nie
Koordinátor: FMFI UK, Bratislava
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 2500 €

Dosiahnuté výsledky:

Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórii chirurgií. Vylepšovali a doladzovali sme nami definované univerzálne konštrukcie, ktoré sme našli v predchádzajúcom roku, pričom sme mali špeciálne na zreteli voľby bázy bodov. Taktiež sme pridali všeobecnú kapitolu o homotopickú teórii reťazcových komplexov, ktorá by mohla byť užitočná aj pre výskumníkov mimo teórie chirurgií.

Pokračovali sme hľadani nového dôkazu hlavnej vety a totálnej chirurgickej prekážky. Konkrétne sme sa venovali Mayer-Vietorisovej postupnosti v homológiách s koeficientami v L -spektre odvodennej od rozkladu Poincarého CW-complexu vynásobeného vysoko-rozmerným diskom na rúčky zlepené homotopickými ekvivalenciami. Pomocou nej sme našli priamy súvis medzi homologicou časťou totálnej chirurgickej prekážky a štruktúrnym invariantom homotopickkej ekvivalencie variet s hranicou, čo by mal byť jeden z hlavných komponentov finálneho dôkazu, ktorý hľadáme.

Preprint:

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

V príprave:

1. Tibor Macko, Michael Weiss: The total surgery obstruction via homotopy handle body decompositions.

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

Zodpovedný riešiteľ:	Roman Nedela
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0220
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta matematiky, fyziky a informatiky, Univerzita Komenského, Bratislava
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 5000 €

Dosiahnuté výsledky:

1. Y.Q.Feng et. al: Complete regular dessins and skew-morphisms of cyclic groups, ARS MATHEMATICA CONTEMPORANEA 18 (2020) 289–307

V práci je odvodená pomerne prekvapivá korešpondencia medzi dvojicami recipročných kosomorfizmov cyklických grúp rádov m a n , a existenciou úplných regulárnych Grothendieckových dezénov typu (m,n) . Pomocou tejto korešpondencie sme klasifikovali dvojice prirodzených čísel (m,n) , pre ktoré existuje jediný úplný regulárny dezén typu (m,n) .

2. R. Nedela, I. Ponomarenko, Recognising and testing isomorphism of Cayley graphs over an abelian group of order $4p$ in polynomial time, in G.A. Jones et.al. Isomorphisms, Symmetry and Computations in Algebraic Graph Theory, Springer Proceedings in Mathematics and Statistics 305, Springer, 2020.

V práci sa zaoberáme problémom algoritmickej zložitosti rozpoznania Cayleho grafu a problémom izomorfizmu pre istú triedu Cayleho grafov.

18.) Výnimočné štruktúry v diskkrétnej 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:

Projekt je v počiatočnom štádiu riešenia.

19.) 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: 3100 €

Dosiahnuté výsledky:

Výsledky sú uvedené v Prílohe C v prácach riešiteľov.

20.) Vývoj inovatívnych metód pre primárnu metrológiu momentu sily aplikáciou silových účinkov konvenčnej etalonáže (*Development of innovative methods for primary metrology torque forces by force effects of the conventional standards*)

Zodpovedný riešiteľ: Gejza Wimmer
Trvanie projektu: 1.7.2019 / 30.6.2022
Evidenčné číslo projektu: APVV-18-0066
Organizácia je koordinátorom projektu: Nie
Koordinátor: Slovenská legálna metrológia, n.o.
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: APVV: 4439 €

Dosiahnuté výsledky:

Práca na projekte bez publikovaných výsledkov.

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

Zodpovedný riešiteľ: Viktor Witkovský
Zodpovedný riešiteľ v organizácii SAV: Gejza Wimmer
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0295
Organizácia je koordinátorom projektu: Nie
Koordinátor: Ústav merania SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 3750 €

Dosiahnuté výsledky:

V. Witkovský, G. Wimmer, T. Duby, Estimating the distribution of a stochastic sum of IID random variables, *Mathematica Slovaca*, 70 (2020), 759–774.

Programy: ŠPVV

22.) Príprava Národného programu kvantových technológií SR

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

Dosiahnuté výsledky:

Výsledky sú uvedené v Prílohe C v prácach riešiteľov.

Programy: Vnútroústavné

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

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

Dosiahnuté výsledky:

Základný výskum v oblasti modelovania šírenia Covid19 na Slovensku.

Programy: Iné projekty

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

Zodpovedný riešiteľ: Andrea Zemánková
Trvanie projektu: 1.8.2013 / 31.7.2021
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: Áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Prijaté publikácie

1. A. Mesiarová-Zemánková, Natural partial order induced by a commutative, associative and idempotent function. Information Sciences 545 (2021), 499–512, IF: 3.643
2. A. Mesiarová-Zemánková, Convex combinations of uninorms and triangular subnorms, Fuzzy Sets and Systems, <https://doi.org/10.1016/j.fss.2020.10.011> IF: 3.305
3. A. Mesiarová-Zemánková, The n-uninorms with continuous underlying t-norms and t-conorms, International Journal of General Systems, <https://doi.org/10.1080/03081079.2020.1863395> IF: 1.671
4. A. Mesiarová-Zemánková, Characterization of idempotent n-uninorms, Fuzzy Sets and Systems. <https://doi.org/10.1016/j.fss.2020.12.019> IF: 3.305

Zaslané publikácie

1. A. Mesiarová-Zemánková, Characterizing functions of n -uninorms with continuous underlying functions, IEEE Transactions on Fuzzy Systems. (IF: 9.518)
2. A. Mesiarová-Zemánková, Characterization of n -uninorms with continuous underlying functions via z -ordinal sum construction, International Journal of Approximate Reasoning. (IF: 2.678)
3. R. Fernandez-Peralta, S. Massanet, A. Mesiarová-Zemánková, A. Mir, A general framework for the characterization of (S,N) -implications with a non-continuous negation based on completions of t -conorms, Fuzzy Sets and Systems. (IF: 3.305)

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 BATTELLI, Flaviano - FEČKAN, Michal**. On the exponents of exponential dichotomies. In Mathematics, 2020, vol. 8, no. 651, p. 1-13. (2019: 1.747 - IF, Q1 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math8040651>
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1. [1.1] *JIRASEK, Jr. Jozef - PALMOVSKÝ, Matus - SEBEJ, Juraj. Kuratowski Algebras Generated by Prefix-, Suffix-, Factor-, and Subword-Free Languages Under Star and Complementation. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2019, vol. 30, no. 6-7, p. 1091-1115., Registrované v: WOS*

AEC22

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Citácie:

1. [1.1] *HOFFMANN, Stefan. Commutative Regular Languages Properties and State Complexity. In ALGEBRAIC INFORMATICS, CAI 2019. ISSN 0302-9743, 2019, vol. 11545, no., p. 151-163., Registrované v: WOS*

AEC23

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- AEC24 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Fuzzy integrals. In Modeling Decisions for Artificial Intelligence, Vol. LNAI 3131. - Berlin : Springer, 2004, s. 7-14.
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1. [1.1] NAGARAJAN, Rajganes - THIRUNAVUKARASU, Ramkumar. A fuzzy-based decision-making broker for effective identification and selection of cloud infrastructure services. In SOFT COMPUTING. ISSN 1432-7643, 2019, vol. 23, no. 19, p. 9669-9683., Registrované v: WOS
- AEC25 NEWTON, M. - SÝKORA, O. - UŽOVIČ, M. - VRŤO, Imrich. New exact results and bounds for bipartite crossing numbers of meshes. In Graph Drawing, Lecture Notes in Computer Science, Vol. 3383. - Springer, 2005, s. 360-370. ISBN 3-540-24528-6.
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1. [1.1] PALUBECKIS, Gintaras - TOMKEVICIUS, Arunas - OSTREIKA, Armantas. Hybridizing simulated annealing with variable neighborhood search for bipartite graph crossing minimization. In APPLIED MATHEMATICS AND COMPUTATION. ISSN 0096-3003, 2019, vol. 348, p. 84-101., Registrované v: WOS
- AEC26 REPICKÝ, Miroslav. Cardinal invariants related to porous sets. In Israel Mathematical Conference Proceedings 6. - 1993, s. 433-438.
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1. [1.1] BRENDLE, Jorg - GARCIA AVILA, Luz Maria. Evasion and prediction V: Unsymmetric game ideals, constant prediction, and strong porosity ideals. In EUROPEAN JOURNAL OF MATHEMATICS. ISSN 2199-675X, 2019, vol. 5, no. 2, p. 269-286., Registrované v: WOS
- AEC27 RIEČAN, Beloslav. M-probability theory on IF-events. In New Dimensions in Fuzzy Related Technologies, vol. I. - Ostrava : Univ. of Ostrava, 2007, s. 227-230.
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- AEC28 RIEČAN, Beloslav. A descriptive definition of the probability on intuitionistic fuzzy sets. In Proceedings of the 3rd Conference of the European Society for Fuzzy Logic and Technology. - Zittau, Germany : University of Applied Sciences at Zittau/Görlitz, 2003, s. 210-213. ISBN 3-9808089-4-7.
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1. [1.1] LU, Juan - LI, De-Yu - ZHAI, Yan-Hui - BAI, He-Xiang. Belief and plausibility functions of type-2 fuzzy rough sets. In INTERNATIONAL JOURNAL OF APPROXIMATE REASONING. ISSN 0888-613X, 2019, vol. 105, no., pp. 194-216., Registrované v: WOS
2. [1.1] MUTHURAJI, T. Some Properties of Operations Conjunction, Disjunction and Implication from Lukasiewicz's Type Over Intuitionistic Fuzzy Matrices. In RECENT TRENDS IN PURE AND APPLIED MATHEMATICS. ISSN 0094-243X, 2019, vol. 2177., Registrované v: WOS
- AEC29 RIEČAN, Beloslav. Probability theory on IF events. In Lecture Notes in Computer Science: Algebraic and Proof-theoretic Aspects of Non-classical Logics, Papers in Honor of Daniele Mundici on the Occasion of His 60th birthday, vol. 4460. - Berlin : Springer, 2007, s. 290-308. ISBN 978-3-540-75938.

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2. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. Strong Laws of Large Numbers for IVM-Events. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, 2019, vol. 27, no. 12, pp. 2293-2301., Registrované v: WOS

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

- AECA01 JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina. The boundary of prefix-free languages. In Developments in Language Theory : LNCS 9168, proceedings. - Springer, 2015, p. 300-312. ISBN 978-3-319-21499-3. (DLT 2015)

Citácie:

1. [1.1] JIRASEK, Jr. Jozef - PALMOVSKY, Matus - SEBEJ, Juraj. Kuratowski Algebras Generated by Prefix-, Suffix-, Factor-, and Subword-Free Languages Under Star and Complementation. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2019, vol. 30, no. 6-7, p. 1091-1115., Registrované v: WOS

***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

- AEE01 JIRÁSKOVÁ, Galina. Deterministic blow-ups of minimal NFA's. In RAIRO-THEORETICAL INFORMATICS AND APPLICATIONS, 2006, vol. 40, no. 3, s. 485-499.

Citácie:

1. [1.2] HOLZER, Markus - HOSPODÁR, Michal. The Range of State Complexities of Languages Resulting from the Cut Operation. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2019-01-01, 11417 LNCS, p. 190-202., Registrované v: SCOPUS

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

- AEF01 RIEČAN, Beloslav. On the probability on BL algebras. In Acta Mathematica 4. - Nitra : Univerzita Konštantína Filozofa, 2000, s. 3-13. ISBN 80-8050-350-8.

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1. [1.1] DEHGHANI, Zahra - FOROUZESH, Fereshteh. State filters in state residuated lattices. In CATEGORIES AND GENERAL ALGEBRAIC STRUCTURES WITH APPLICATIONS. ISSN 2345-5853, 2019, vol. 10, no. 1, pp. 17-37., Registrované v: WOS
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3. [1.1] XIN, X. L. - KHAN, M. - JUN, Y. B. Generalized states on EQ-algebras. In IRANIAN JOURNAL OF FUZZY SYSTEMS. ISSN 1735-0654, 2019, vol. 16, no. 1, pp. 159-172., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 RIEČAN, Beloslav. On the probability and random variables on if events. In Proceedings of the 7th international flins conference. - Genova, 2006, 2006, p. 138-145. Dostupné na: https://doi.org/10.1142/9789812774118_0023

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1. [1.1] *CUNDERLIKOVA, Katarina. Two theorems from extreme value theory for interval valued events. In PROCEEDINGS OF THE 11TH CONFERENCE OF THE EUROPEAN SOCIETY FOR FUZZY LOGIC AND TECHNOLOGY (EUSFLAT 2019), 2019, vol. 1, no., pp. 660-667., Registrované v: WOS*

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALENČÁR, R. Brief overview of methods for measurement uncertainty analysis: GUM uncertainty framework, Monte Carlo method, characteristic function approach. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement. Editors: J. Maňka, M. Tyšler, V. Witkovský, I. Frollo. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2017, p. 35-38. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983530>

Citácie:

1. [1.2] *SHARIFIAN, Seyedmehdi - SOTUDEH-GHAREBAGH, Rahmat - ZARGHAMI, Reza - TANGUY, Philippe - MOSTOUFI, Navid. Uncertainty in chemical process systems engineering: A critical review. In REVIEWS IN CHEMICAL ENGINEERING. ISSN 0167-8299, 2019., Registrované v: SCOPUS*
2. [3.1] *ESPINEL-ORTEGA, Alvaro – VEGA, Adriana. Determination of Uncertainty in Measuring Instruments in Electrical Engineering Programs. In TECNOLÓGICAS. ISSN 0123-7799, 2019, vol. 22, no. 46.*

AGI Správy o vyriešených vedeckovýskumných úlohách

- AGI01 DVUREČENSKIJ, Anatolij - KULJUKINA, L. A. - OSOSKOV, G. A. Ob ocenke plotnosti sledov v trekovykh kamerach. In OIJaI, 1981, č. 5-81-362, s. 1-14.

Citácie:

1. [1.1] *LEBEDEV, E. O. - LIVINSKA, G. V. ON ASYMPTOTIC MERGING OF NODES'; SET IN STOCHASTIC NETWORKS. In THEORY OF PROBABILITY AND MATHEMATICAL STATISTICS. ISSN 0094-9000, 2019, vol. 101, no., pp. 147-156., Registrované v: WOS*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Nelineárna funkcionálna analýza

Počet hodín za semester: 2

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

RNDr. Martin Kochol, PhD., DSc.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 3

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

prof. RNDr. Július Korbaš, CSc.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 30

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra algebry a geometrie FMFI UK

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Algebraická topológia

Počet hodín za semester: 48

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 48

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 2

Počet hodín za semester: 48

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Teória kategórií 1

Počet hodín za semester: 24

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: 8

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 26

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 8

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerical Methods of Linear Algebra

Počet hodín za semester: 26

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě I, Teorie grafů

Počet hodín za semester: 39

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 52

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika pre chémiu

Počet hodín za semester: 65

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Digitale Rechenanlagen

Počet hodín za semester: 30

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Lineare Algebra

Počet hodín za semester: 45

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Rechnerarchitektur

Počet hodín za semester: 30

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitost' algoritmov

Počet hodín za semester: 192

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnost' a štatistika

Počet hodín za semester: 168

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

doc. Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Lineárna algebra a geometria 1

Počet hodín za semester: 24

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: 24

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: 6

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika 2

Počet hodín za semester: 6

Názov katedry a vysokej školy: Katolícka univerzita v Ružomberku, Katedra Manažmentu

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

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

Ing. Peter Sýs

Názov semestr. predmetu: Operačné systémy

Počet hodín za semester: 48

Názov katedry a vysokej školy: Fakulta informatiky a informačných technológií STU, Ústav počítačového inžinierstva a aplikovanej informatiky

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Digitale Rechenanlagen

Počet hodín za semester: 30

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Ján Mačutek	8
Francúzsko					Ján Mačutek	6
Grécko					Ján Mačutek	4
Nový Zéland					Roman Nedela	11
Španielsko					Pavol Bokes	6
					Branislav Novotný	6
Počet vyslaní spolu					6	41

(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
Ukrajina					Doc. Svitlana Leshchuk, PhD.	3
Počet prijatí spolu					1	3

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália (online)	20th AQIS	Anna Jenčová	3
Česko	40th WSGP	Tibor Macko	7
	SWSL2020	Ján Mačutek	5
Francúzsko (online)	QPL2020	Martin Plávala	5
Japonsko (online)	QICF20	Martin Plávala	5
Kanada (online)	WCPS2020	Martin Plávala	4
Nový Zéland	SODO 2020	Roman Nedela	5
Poľsko (online)	IWIFSGN'2020	Katarína Čunderlíková	2
		Alžbeta Michalíková	2
Rakúsko (online)	Q-Turn2020	Martin Plávala	5
Ukrajina (online)	DidaUA2020	Natália Dilna	2
USA (online)	ACT2020	Martin Plávala	6
Veľká Británia (online)	BQIT:20	Martin Plávala	4
Spolu	12	13	55

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

Skratky použité v tabuľke C:

20th AQIS - 20th Asian Quantum Information Science Conference

40thWSGP - The 40th Winter school in geometry and physics

ACT2020 - Applied Category Theory 2020

BQIT:20 - Virtual Bristol Quantum Information Technologies Workshop

DidaUA2020 - International on-line Conference. Modern information technology and innovation methods in teaching: experience, trends and prospects

IWIFSGN'2020 - The 19th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets

Q-Turn2020 - Q-Turn2020

QICF20 - Workshop on Quantum Information, Computation, and Foundation

QPL2020 - 17th International Conference on Quantum Physics and Logic

SODO 2020 - Symmetries of Discrete Objects

SWSL2020 - Summer Workshop - Statistics in Linguistic 2020

WCPS2020 - Workshop Categorical Probability and Statistics

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Peter Mlynárčik, PhD.		PB	Matematický Alternatívny Krúžok	MÚ SAV, Košice	24.2.2020
RNDr. Emília Halušková, CSc.		iné	matematický krúžok	MÚ SAV, Košice	9

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