

Matematický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2019**

Verzia 5 (3. 2. 2020)

Bratislava
január 2020

Obsah

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Koncepcia dlhodobého rozvoja organizácie
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky
7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Iné významné činnosti organizácie SAV
15. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy a podnety pre činnosť SAV

PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2019*
- B Projekty riešené v organizácii*
- C Publikáčná činnosť organizácie*
- D Údaje o pedagogickej činnosti organizácie*
- E Medzinárodná mobilita organizácie*
- F Vedecko-popularizačná činnosť pracovníkov organizácie SAV*

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**
doc. RNDr. Roman Frič, DrSc.
- **Inštitút matematiky a informatiky MÚ SAV v B. Bystrici**
prof. RNDr. Roman Nedela, DrSc.

Členovia Snemu SAV za organizačné zložky:
nie sú

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	74	45	29	8	2	66	40.29	27.51	0
Vedeckí pracovníci	51	40	11	5	0	45	27.73	27.27	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	10	4	6	3	2	8	3.56	0.24	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	0	0	0	0	0	0	0	0	0
Odborní pracovníci ÚS	9	1	8	0	0	9	6.86	0	0
Ostatní pracovníci	4	0	4	0	0	4	2.14	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 31.12.2019 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2019 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	31	7	13	9	12	19
Ženy	3	9	0	2	3	3	5

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	2	2.0	4	2.2	4	3.0	3	0.4	4	2.3	1	1.0	4	1.7	6	4.0	7	5.4
Ženy	2	0.1	0	0.0	5	3.1	0	0.0	2	1.0	1	1.0	1	1.0	1	1.0	1	1.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	51.1	52.4	52.2
Ženy	50.6	49.4	46.0
Spolu	50.9	51.7	50.5

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. 2018 Matematický ústav SAV získal v r. 2019 najlepšie hodnotenie práve v 1. Oddelení SAV vďaka výbornej publikačnej aktivite MÚ SAV.

Na ústave prebehli úspešne koncom augusta 2019 dve obhajoby dizertačných prác RNDr. M. Plávalu, PhD. a Ing. M. Hospodára, PhD.

V rámci Týždňa vedy sme mali 11. ročník Dňa otvorených dverí. Prednášky prebiehali na MÚ SAV a pre verejnosť aj v Košiciach.

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. Toto štipendium získali len traja pracovníci SAV.

V r. 2019 sme pokračovali v praxi pre študentov matematiky vyšších ročníkov, v rámci ktorej študenti pod vedením renomovaných odborníkov riešia na ústave zaujímavé úlohy, čím sa jednak oboznamujú s ústavom, jeho úlohami a ústav má nádej medzi nimi objaviť budúcich doktorandov ústavu.

Časopis Mathematica Slovaca má impaktový faktor IF(2018)=0,490, päťročný impakt faktor 0,488 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,279 (Scimago Journal Ranking) a je v 3. kvartile. Počet zaslaných článkov v r. 2019 bol okolo 550.

Od r. 2011 je časopis Tatra Mt. Math. Publ. indexovaný v databáze SCOPUS. Jeho SJR=0,226 (Scimago Journal Ranking) a je v 3. kvartile.

Na jeseň 2019 prof. RNDr. Michal Fečkan, DrSc., ktorý je aj našim pracovníkom, získal prestížne ocenenie Highly Cited Researchers za rok 2019.

V závere roka boli schválené dva granty OP ŠF: 313011T683 - Matematická podpora kvantových technológií, 313011T634 - Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov.

Bohužiaľ, v septembri 2019 zomrel po ťažkej chorobe doc. RNDr. J. Borsík, CSc.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2019

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	5	59355	55322	-	-	-	6506
2. Projekty APVV	1	5	-	-	35559	29407	-	35602
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	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2019	-	3	2
2. Projekty výziev OP ŠF podané r. 2019	Bratislava		
	Regióny	1	

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

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	-	-	-	-	-	19990
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 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	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

V roku 2019 sme podali na Výskumnej agentúre projekt:

Inteligentné technológie na manažment zdravotného stavu rizikovej skupiny tehotných žien

Žiadateľ: Matematický ústav SAV

Operačný program: 313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.2.1-08

Kód žiadosti: NFP313010V547

Celkové oprávnené výdavky: 7 851 098,89 €

Požadovaná výška NFP: 6 930 740,26 €

Partneri:

- Biomedicínske centrum SAV, Bratislava,
- Centrum biológie rastlín a biodiverzity SAV, Nitra
- Centrum experimentálnej medicíny SAV, Bratislava,
- REGENMED, spol. s r.o., Bratislava,
- Slovenská poľnohospodárska univerzita, Nitra,
- Slovenská technická univerzita, Bratislava,
- Stredoslovenský ústav srdcových a cievnych chorôb, Banská Bystrica,
- Univerzita Komenského, Bratislava,
- Ústav merania SAV, Bratislava,

Základným cieľom projektu je využiť moderné technológie a know-how špičkových vedecko-výskumných pracovníkov na zlepšenie metabolického zdravia žien s rizikom gestačného diabetu (GDM), hypertenzie a tiež zdravia ich detí účinkom individualizovanej klinicky implementovateľnej intervencie vytvorenej na základe dynamického monitorovania pohybovej aktivity a výživy prostredníctvom telemedicínskych služieb počas gravidity. Automatizácia zberu, spracovania, zdieľania, výmeny, archivácie a analýzy dát súvisiacich so zdravotným stavom tehotnej ženy umožňuje kontinuálny monitoring a predikciu vývoja jej zdravotného stavu za účelom minimalizácie rizika jeho zhoršenia. Práve heterogenita týchto dát vrátane tých z genetických a epigenetických vyšetrení podporuje personalizáciu diagnostiky a štandardizáciu liečby vytvorením nových liečebných postupov založených na úprave životného štýlu tehotnej ženy.

V decembri 2019 sme s Výskumnou agentúrou podpísali zmluvy na riešenie projektov (oba podané v roku 2018):

1. Matematická podpora kvantových technológií

Žiadateľ: Matematický ústav SAV

Operačný program: :313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-09

Kód žiadosti:NFP313010T683

Číslo zmluvy: [016/2019/OPII/VA](#)

Celkové oprávnené výdavky projektu: 1 001 422,60 € (žiadané 1 087 916,53 €)

2. Výskum v oblasti analýzy heterogénnych dát za účelom predikcie zmeny zdravotného stavu chronických pacientov

Žiadateľ: Matematický ústav SAV

Operačný program: :313000 - Operačný program Výskum a inovácie

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-10

Kód žiadosti:NFP313010T634

Číslo zmluvy: [017/2019/OPII/VA](#)

Celkové oprávnené výdavky projektu: 1 060 712,02 € (žiadané 1 239 037,76 €)

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

Poznámka o slabo frakcionálnych diferenciálnych rovniciach

V uvedenom článku sú porovnané riešenia frakcionálnych diferenciálnych rovníc Caputovho typu rádu q blízkeho 1 s riešeniami príslušnej obyčajnej diferenciálnej rovnice prvého rádu. Pomocou odvodeného horného a dolného odhadu Mittag-Lefflerovej funkcie je dokázaný výsledok o konvergencii. Špeciálne je ukázané, že limitné prípady $q \rightarrow 1+$ a $q \rightarrow 1-$ sú rôzne. Výsledky sú ilustrované na jednoduchom príklade.

Autori: M. Fečkan (MÚ SAV), M. Pospíšil (MÚ SAV), J. Wang (Guizhou University, Guiyang, China)

Projekt: VEGA 2/0153/16

Referencia: M. Fečkan, M. Pospíšil, J. Wang: *Note on weakly fractional differential equations*, Advances in Difference Equations 2019 (2019), No. 143, 11 pages.

Note on weakly fractional differential equations

In this paper, we compare solutions of q -order fractional differential equations of Caputo type for q near 1 with solutions of the corresponding 1-order ordinary differential equations. By establishing the explicit lower and upper bounds of Mittag-Leffler functions, we obtain the effective convergence results. It is shown that the limit cases $q \rightarrow 1+$ and $q \rightarrow 1-$ are different. A simple illustrative example is also presented.

Authors: M. Fečkan (MÚ SAV), M. Pospíšil (MÚ SAV), J. Wang (Guizhou University, Guiyang, China)

Project: VEGA 2/0153/16

Reference: M. Fečkan, M. Pospíšil, J. Wang: *Note on weakly fractional differential equations*, Advances in Difference Equations 2019 (2019), No. 143, 11 pages.

--

Distribučné funkcie postupností: Teória

Teória distribučných funkcií postupností nie je v súčasnosti dostatočne prepracovaná

Predkladaná kniha obsahuje: Základné vlastnosti množiny distribučných funkcií ako sú neprázdnosť, uzavretosť a súvislosť, príklady aplikácií distribučných funkcií ako úplne riešenie Benfordovho zákona, použitie štatisticky nezávislých, štatisticky konvergentných postupností, úplne riešenie nového trojrozmerného momentového problému, výpočet množiny distribučných funkcií pre špeciálne postupnosti ako napr. $3/2$ umocnené na n -tú modulo 1 spolu s ich funkcionálnou rovnosťou, blokové postupnosti, distribučné funkcie viacrozmerných postupností, napr. kopule $g(x,y)$, kde $g(x,1)=x$ a $g(1,y)=y$, a tiež hľadanie extrémov integrálov $\int F(x,y)dg(x,y)$ cez kopule a na záver riešenie integrálnych rovníc $\int F(x,y)dg(x)dg(y)=0$ v distribučných funkciách $g(x)$ pre kopoziatívne funkcie $F(x,y)$ prevedením integrálu $\int F(x,y)dg(x)dg(y)$ na maticový tvar.

Autor: O. Strauch (MÚ SAV)

Projekt: VEGA grant 2/0109/18

Referencia: Strauch, O., *Distribution Function of Sequences: A Theory*. ISBN 978-80-224-1734-1, VEDA, Bratislava, 2019, ISBN 978-80-200-3010-8, Academia, Prague, 2019, pp. 592.

Distribution function of Sequences: A Theory

The study of the set of distribution functions of sequences is still unsatisfactory. This book contains: Basic properties of the set of distribution functions, e.g. it is nonempty, closed and connected, examples of applications of distribution functions, e.g. general scheme of solution of Benford's law, use of statistically independent sequences, statistically convergent sequences, contains complete solution of a new three-dimensional moment problem, contain computation of distribution functions for special sequences, e.g. $3/2$ to the power of n modulo 1 with a functional equation, block sequences, distribution functions of multi-dimensional sequences, e.g. copulas $g(x,y)$, where $g(x,1)=x$ a $g(1,y)=y$, computation extremes of an integral $\int F(x,y)dg(x,y)$ over $g(x,y)$, and finally solution of an integral equation " $\int F(x,y)dg(x)dg(y)=0$ " over distribution functions $g(x)$ for copositive $F(x,y)$ and a matrix form of the " $\int F(x,y)dg(x)dg(y)$ ".

Author: O. Strauch (MÚ SAV)

Project: VEGA grant 2/0109/18

Reference: Strauch, O., *Distribution Function of Sequences: A Theory*. ISBN 978-80-224-1734-1, VEDA, Bratislava, 2019, ISBN 978-80-200-3010-8, Academia, Prague, 2019, pp. 592.

--

Nedeterministická zložitost' v podtriedach regulárnych jazykov

Skúma sa nedeterministická stavová zložitost' základných regulárnych operácií na triedach bezpredponových, bezpríponových, bezfaktorových a bezpodslovových, uzavretých, a konvexných regulárnych jazykov a na triedach pravo, ľavo, obojstranne a všetkostranne ideálnych regulárnych jazykov. Pre operácie zreťazenia, prieniku, zjednotenia, zrkadlového obrazu, Kleeneho uzáveru a doplnku dostávame tesné horné hranice pre všetky uvažované triedy okrem doplnku na faktorovo a podslovovo konvexných jazykoch. Väčšina našich dosvedčujúcich jazykov je popísaná na optimálnych abecedách. Popis vlastného príponovo konvexného (t.j., nie bezpríponového, uzavretého, ani ideálneho) jazyka na päťpísmenovej abecede dosahujúceho hornú hranicu 2^n pre doplnok a získanie asymptoticky tesnej hranice $\Theta(\sqrt{n})$ pre doplnok na unárnych bezpredponových jazykoch sú medzi najzaujímavejšími výsledkami tohto článku.

Autori: M. Hospodár, G. Jirásková, P. Mlynárčik (MÚ SAV)

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

Referencia: M. Hospodár, G. Jirásková, P. Mlynárčik: *Nondeterministic complexity in subclasses of convex languages*. Theoretical Computer Science 787 (2019), 89-110.
<https://doi.org/10.1016/j.tcs.2018.12.027>

Nondeterministic complexity in subclasses of convex languages

We study the nondeterministic state complexity of basic regular operations on the classes of prefix-, suffix-, factor-, and subword-free, -closed, and -convex regular languages and on the classes of right, left, two-sided, and all-sided ideal regular languages. For the operations of concatenation, intersection, union, reversal, star, and complementation, we get tight upper bounds for all considered classes except for complementation on factor- and subword-convex languages. Most of our witnesses are described over optimal alphabets. The description of a proper suffix-convex (i.e., not suffix-free, closed, or ideal) language over a five-letter alphabet meeting the upper bound 2^n for complementation, and obtaining an asymptotically tight bound $\Theta(\sqrt{n})$ for complementation of unary prefix-free languages are among the most interesting results of this paper.

Authors: M. Hospodár, G. Jirásková, P. Mlynárčik (MÚ SAV)

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

Reference: M. Hospodár, G. Jirásková, P. Mlynárčik: *Nondeterministic complexity in subclasses of convex languages*. Theoretical Computer Science 787 (2019), 89-110.
<https://doi.org/10.1016/j.tcs.2018.12.027>

--

2.3.2. Aplikačný typ

Lineárna komparatívna kalibrácia

Navrhol sa nový model komparatívnej kalibrácie s lineárnou kalibračnou funkciou, ktorá stanovuje vzťah medzi dvomi meracími prístrojmi (meracími zariadeniami), pričom každý z nich meria dvojrozmerné signály. Návrh modelu takejto dvojrozmernej kalibrácie je založený na metrologickom prístupe vyjadrenia neistôt v meraní. Takto získaný model kalibrácie je z matematicko-štatistického hľadiska model s chybami v premenných (errors-in-variables (EIV) model). Teda model nelineárny v parametroch. Avšak po vhodnej linearizácii parametre kalibračnej funkcie môžu byť odhadnuté použitím optimálnych odhadovacích algoritmov vyvinutých pre lineárne regresné modely s ohraničeniami typu II na parametre modelu. Na základe toho sa navrhol iteratívny algoritmus pre optimálne odhady parametrov lineárnej kalibračnej funkcie a tiež metóda pre vyhodnotenie neistôt pri meraní kalibrovaným meradlom.

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

Projekty: VEGA 2/2054/18, VEGA 2/0081/19, APVV-15-0295

Referencia: Wimmer, G., Witkovský, V., *Two-dimensional linear comparative calibration and measurement uncertainty*, In: MEASUREMENT 2019: Proceedings of The 12th International Conference on Measurement - Bratislava, Slovakia: Institute of Measurement Science, Slovak Academy of Sciences (2019), 66-69 ISBN 978-80-972629-2-1 (ADNB), (SCOPUS).

Linear comparative calibration

A new comparative calibration model with a linear calibration function has been proposed, which establishes the relationship between two measuring instruments (measuring systems), each measuring two-dimensional signals. The design of such a two-dimensional calibration model is based on a metrological approach for expressing uncertainty in measurement. The calibration model

thus obtained is, from a mathematical-statistical point of view, a model with errors-in-variables (EIV). Thus, the model is nonlinear in parameters. However, after suitable linearization parameters of the calibration function can be estimated using optimal estimation algorithms developed for linear regression models with type II conditions on the parameters. Based on this, an iterative algorithm was developed for optimal estimation of calibration function parameters as well as a method for evaluating uncertainties of the calibrated measuring instrument measurements.

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

Projects: VEGA 2/2054/18, VEGA 2/0081/19, APVV-15-0295

Reference: Wimmer, G., Witkovský, V., *Two-dimensional linear comparative calibration and measurement uncertainty*, In: MEASUREMENT 2019: Proceedings of The 12th International Conference on Measurement - Bratislava, Slovakia: Institute of Measurement Science, Slovak Academy of Sciences (2019), 66-69 ISBN 978-80-972629-2-1 (ADNB), (SCOPUS).

--

Optimalizácia prepravy plynu pomocou evolučných výpočtov na malej počítačovej sieti

Dynamická optimalizácia zložitých transportných plynovodných sústav je v súčasnosti veľkou výzvou. Ide o aktívnu oblasť výskumu v ktorej sa dosiahol len malý pokrok. Náš výskum v tejto oblasti sa zameriaval na urýchlenie riešení takýchto úloh pomocou distribuovaných výpočtov na lokálnej počítačovej sieti.

Na riešenie prechodovej optimalizácie transportnej plynovodnej siete bol implementovaný distribuovaný algoritmus evolučných stratégií. Prechodová optimalizácia tu znamená optimalizáciu spotreby plynu pri dynamickom prechode medzi dvoma stacionárnymi stavmi pomocou sekvencie riadiacich úkonov (každý úkon bol definovaný časom a hodnotou otáčok kompresorovej skupiny). Experimentovali sme s dvoma koncepciami paralelizácie na lokálnej počítačovej sieti: 1) klient-server, kde centrálny počítač prideliť úlohy iným počítačom, zhromažďuje a vyhodnocuje výsledky a 2) spolupracujúci agenti, kde na každom počítači beží agent (nezávislá inštancia evolučných stratégií), pričom si agenti počas výpočtu navzájom vymieňajú najlepšie dosiahnuté výsledky. Okrem toho sme experimentovali s použitím vzdialených výpočtových prostriedkov na platforme Google cloud.

Autori: I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora (Altova, GmbH)

Projekt: 1235 Optimalizácia prepravy plynu tranzitným plynovodom

Referencia: I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora; *Optimization of Gas Transport – Evolutionary Calculations on a Small Cluster of Computers*. In: Pipeline Simulation Interest Group: PSIG-1915, 2019, London, UK

Optimization of Gas Transport by Evolutionary Calculations on a Small Cluster of Computers

Dynamic optimization of a large gas transport system is an active area and a highly challenging task, where only a few results were done till now. Our research was focused to utilize distributed computing (on local resources) to solve such tasks in sufficiently short time to practical usage.

Distributed Evolution Strategy algorithm was implemented to solve transient optimization of pipeline transport network. Here the transient optimization means optimization of gas consumption during transition between two steady states by predefined number of control events determined by time and revs of each compressor group. We experiment with two concepts of local computer cluster parallelization: 1) Client-Server, where there is a central computer that assigns tasks to other computers, collects and evaluates the results and 2) Cooperative Agents, where each work station compute its own instance (agent) of Evolution Strategy and best results are exchanging among agents during computation. We also experiment with external computational resources on Google cloud platform.

Authors: I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora (Altova, GmbH)

Project: 1235 Gas transport optimization through transit pipelines

Reference: I. Mračka, T. Žáčik, M. Hyčko, R. Hajossy, P. Somora; *Optimization of Gas Transport – Evolutionary Calculations on a Small Cluster of Computers*. In: Pipeline Simulation Interest Group: PSIG–1915, 2019, London, UK

--

Symetrické nelineárne funkcionálne rovnice v rezonancii

Hlavným cieľom našich bádání bolo ukázať také podmienky, ktoré garantujú, že funkcionálno-diferenciálne rovnice so symetricko-invariantnou vlastnosťou majú symetrické riešenia. Bolo preukázané, že úlohy pre triedu symetrických riešení pre skalárne nelineárne funkcionálno-diferenciálne rovnice v rezonancii a s posunutými argumentmi z $\mathbb{R}$ do $\mathbb{R}$ dajú sa študovať pomocou teórie okrajových úloh. Okrem tohto sme našli podmienky pre jednoznačnú riešiteľnosť všeobecných skalárnych nelineárnych funkcionálno-diferenciálnych rovníc so symetriami. Na príkladoch bola ilustrovaná teória. Tieto rovnice sú zaujímavé, lebo sa dajú nimi popísať rôzne modely v medicíne, v sociológii (napr. model Lotka-Volterra), v elektrotechnike aj v iných vedeckých odboroch.

Autori: N. Dilna (MÚ SAV), M. Fečkan (MÚ SAV), M. Solovyov (ElÚ SAV), J.R. Wang (Guizhou University, Guizhou, China), A. Ronto (MÚ AV ČR, Brno)

Projekty: VEGA No. 2/0153/16, and 1/0078/17, APVV-16-0418

Referencie:

1. N. Dilna, M. Fečkan, M. Solovyov, J.R. Wang: *Symmetric nonlinear functional differential equations at resonance*. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16.

2. N. Dilna, M. Fečkan, A. Rontó: *On a class of functional differential equations with symmetries*. In SYMMETRY-BASEL, 2019, vol. 11. 1456.

Symmetric nonlinear functional differential equations at resonance

The purpose of these investigations is to present several conditions ensuring that a functional differential equation possessing a certain symmetry-invariance property has a symmetric solution. It was shown that solvability of a problem concerning a class of symmetric solutions to scalar nonlinear functional differential equations at resonance with deviations from $\mathbb{R}$ into $\mathbb{R}$ can be investigated using the theory of boundary-value problems. Furthermore, we establish conditions on unique solvability of scalar nonlinear functional differential equations with symmetries in general form. Several examples illustrate our theory. Equations with functional perturbations are interesting from many points of view, because they describe the variable models in medicine, in sociology (for example, Lotka-Volterra model), in electrical engineering, and many others sciences.

Authors: N. Dilna (MÚ SAV), M. Fečkan (MÚ SAV), M. Solovyov (ElÚ SAV), J.R. Wang (Guizhou University, Guizhou, China), A. Ronto (MÚ AV ČR, Brno)

Projects: VEGA No. 2/0153/16, and 1/0078/17, APVV-16-0418

References:

1. N. Dilna, M. Fečkan, M. Solovyov, J.R. Wang: *Symmetric nonlinear functional differential equations at resonance*. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16.

2. N. Dilna, M. Fečkan, A. Rontó: *On a class of functional differential equations with symmetries*. In SYMMETRY-BASEL, 2019, vol. 11. , 1456.

--

2.3.3. Medzinárodné vedecké projekty

Princíp „žiadna informácia nie je zadarmo“ vo všeobecných probabilistických teóriách

Zaviedli sme informačno-teoretický princíp „žiadna informácia nie je zadarmo“ a porovnali sme ho s už známymi princípmi „žiadne klonovanie“ a „žiadna informácia bez narušenia systému“. Princíp „žiadne klonovanie“ hovorí, že informáciu nie je možné kopírovať a princíp „žiadna informácia bez narušenia systému“ hovorí, že ak chceme získať akúkoľvek informáciu o stave systému, musíme pri meraní systém narušiť a zmeniť jeho stav. Novozavedený princíp „žiadna informácia nie je zadarmo“ hovorí, že neexistuje informácia o systéme, ktorá by sa dala zistiť popri tom ako robíme ľubovoľné iné meranie.

Formalizovali sme tieto princípy vo všeobecných probabilistických teóriách. Vo všeobecných probabilistických teóriách je možné formulovať všeobecnejšie mnohé z kľúčových vlastností kvantovej teórie a pretože zahŕňajú kvantovej a klasickej teórie, štúdium všeobecných probabilistických teórií nám umožňuje porovnávať tieto teórie na základe ich príslušných vlastností a kvantifikovať ich.

V článku sme charakterizovali všetky tri princípy vo všeobecných probabilistických teóriách a nadviazali sme na predošlé známe výsledky. Ukázali sme, že všetky tri princípy sú rôzne, čo znamená, že existujú neklasické teórie, kde je možné získať netriviálne informácie o stave systému bez narušenia stavu systému a existujú neklasické teórie, kde je možné vždy získať nejakú netriviálnu informáciu o stave systému spolu s výsledkom ľubovoľného iného merania.

Publikovaný článok je voľne dostupný na internete a spĺňa princíp otvoreného prístupu k vedeckým výsledkom.

Autori: T. Heinosaari, L. Leppäjärvi (Univ. Turku, Turku, Finland), **M. Plávala** (MÚ SAV)

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

Referencia: T. Heinosaari, L. Leppäjärvi, **M. Plávala**, *No-free-information principle in general probabilistic theories*, Quantum 3, 157 (2019).

No-free-information principle in general probabilistic theories

We have introduced a new information-theoretic principle, the no-free-information principle, and compared it to the previously known no-broadcasting and no-information-without-disturbance principles. The no-broadcasting principle states that information cannot be copied, whilst the no-information-without-disturbance principle states that if we want to obtain any information about a system, we must disturb it, thereby changing the state it is in. The newly introduced no-free-information principle states that there is no type of information that can be learned about a system every time we perform any other measurement on it.

By noting that in quantum theory these principles hold, we formalized this problem in a more general class of theories, namely within the framework of general probabilistic theories (GPTs). These theories form a wide class of operational theories where many of the key features of quantum theory can be formulated more generally. By including both quantum and classical theory, as well as countless toy theories, the study of GPTs allows us to compare these theories based on their respective features and quantify their properties.

In the manuscript, we have mathematically characterized the principles in question within the GPT framework, tying our work with previously known results. We show that all three principles are strictly different, which means that there are operationally valid theories (even non-classical theories) where one can obtain non-trivial information about a system without disturbing it and where one can always choose to get some fixed non-trivial information when performing any other measurement.

The published manuscript is published in an open-access journal, i.e., it is freely available online.

Authors: T. Heinosaari, L. Leppäjärvi (Univ. Turku, Turku, Finland), **M. Plávala** (MÚ SAV)

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

Reference: T. Heinosaari, L. Leppäjärvi, **M. Plávala**, *No-free-information principle in general probabilistic theories*, Quantum 3, 157 (2019).

--

Teória EMV-algebier a stavy na nich

Zaviedli sme EMV-algebry, ktoré zovšeobecňujú MV-algebry a zovšeobecnené Boolovské algebry, kde sa nepredpokladá existencia najväčšieho prvku. Tieto algebry majú lokálne vlastnosti blízke MV-algebriám, ale v celom už nie nutne. Ukázali sme, že ak EMV-algebra M má najväčší element, potom je ekvivalentná MV-algebri, ak nemá najväčší prvok, potom sa dá vnoriť do EMV-algebry N s najväčším prvkom ako maximálny ideál v N . Ukázali sme, aj kategoriálnu ekvivalenciu kategórie EMV-algebier bez najväčšieho prvku so špeciálnou kategóriou MV-algebier.

Študovali sme stavy na EMV-algebriách, ich topologické vlastnosti. Ukázali sme, že stavový priestor EMV-algebry bez najväčšieho prvku je lokálne kompaktný priestor, a jeho jedno-bodová kompaktifikácia je stavový priestor reprezentujúcej EMV-algebry s najväčším prvkom. Ukázali sme, že každý stav na EMV-algebri sa dá reprezentovať ako integrál pomocou sigma-aditívnej pravdepodobnostnej miery.

Autori: A. Dvurečenskij (MÚ SAV), O. Zahiri (Tehran, Iran)

Projekty: APVV-16-0073, VEGA No. 2/0069/16 SAV

Referencie:

1. A. Dvurečenskij, O. Zahiri, *On EMV-algebras*, Fuzzy Sets and Systems **373** (2019), 116--148. <https://doi.org/10.1016/j.fss.2019.02.013> CC

2. A. Dvurečenskij, O. Zahiri, *States on EMV-algebras*, Soft Computing **23** (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x CC

Theory of EMV-algebras and states on them

We have introduced EMV-algebras generalizing both MV-algebras and generalized Boolean algebras, where the top element is not assumed. These algebras resemble locally properties of MV-algebras, however in global, they are not necessarily equivalent to MV-algebras. We have shown that if an EMV-algebra has a top element, then it is equivalent to an MV-algebra, and if it has no top element, then it can be embedded into an EMV-algebra N with top element as a maximal ideal of N . We have shown a categorial equivalence of the category of EMV-algebras without top element with some category of MV-algebras.

We have studied states on EMV-algebras, their topological properties. We have shown that the state space of an EMV-algebra without top element is locally compact and its one-point compactification is the state space of the representing EMV-algebra with top element.

Authors: A. Dvurečenskij (MÚ SAV), O. Zahiri (Tehran, Iran)

Projects: APVV-16-0073, VEGA No. 2/0069/16 SAV

References:

1. A. Dvurečenskij, O. Zahiri, *On EMV-algebras*, Fuzzy Sets and Systems **373** (2019), 116--148.

2. A. Dvurečenskij, O. Zahiri, *States on EMV-algebras*, Soft Computing **23** (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x CC

--

O kardinalite varietovej množiny

Študujeme nasledovný všeobecný problém v teórii klasifikačných otázok vysoko-rozmerných variet. Štruktúrna množina $S(M)$ variety M v zmysle teórie chirurgií je množina, v ktorej sú zorganizované homotopické ekvivalencie zo všetkých možných variet do M . Grupa homotopických ekvivalencií M má akciu na $S(M)$ prostredníctvom postkompozície zobrazení, faktorovú množinu tejto akcie nazývame varietová množina M a označujeme ju $M(M)$, pozostáva presne z tried homeomorfizmov variet v homotopickom type M . Úloha je, pre ľubovoľné M vyšetriť túto akciu vzhľadom na kardinalitu.

Štruktúrna množina bola intenzívne študovaná pomocou teórie chirurgií, ale vo všeobecnosti sa nevedelo veľa o $M(M)$ a jej vzťahu s $S(M)$. Jeden z výsledkov v tejto oblasti je, že $M(M)$ je nekonečná ak fundamentálna grupa M obsahuje torziu a existuje aj niekoľko výpočtov v špeciálnych prípadoch.

Ukázali sme, že pre jednoducho súvislú M platí, že $S(M)$ je nekonečná práve vtedy keď $M(M)$ je nekonečná. Inými slovami, ak existuje nekonečne veľa neekvivalentných homotopických ekvivalencií z nejakých variet, tak medzi týmito varietami už je nekonečne veľa tried homeomorfizmov. V prípade, že M nie je jednoducho súvislá sme ukázali protipríklad k tomuto tvrdeniu a taktiež sme prebrali ďalšie technickejšie výsledky.

Potenciálnou aplikáciou tohto výsledku je dôkaz nekonečnosti $M(M)$ v prípadoch, ktoré doteraz neboli známe.

Autori: D. Crowley (University of Melbourne), **T. Macko** (MÚ SAV)

Projekty: VEGA 1/0101/17 a APVV-16-0053

Referencia: Crowley, D., **Macko, T.**, *On the cardinality of the manifold set*. In: *Geometriae Dedicata* (2019), Vol. 200 (1), pp 265-285, <https://doi.org/10.1007/s10711-018-0370-1> (SCOPUS)

On the cardinality of the manifold set

We study the following general problem in the theory of classification of high-dimensional manifolds. The structure set $S(M)$ of M in the sense of surgery theory is a set in which all homotopy equivalences from all manifolds to M are organized together. The group of homotopy equivalences of M acts on it by post-composition and we call the quotient set the manifold set of M and denote it by $M(M)$, it consists precisely of homeomorphism classes of manifolds homotopy equivalent to M . The task is, given a manifold M to investigate the behavior of this action with respect to cardinality. The structure set has been studied extensively by surgery theory, but not much was known in general about $M(M)$ and its relation to $S(M)$. One result is that if the fundamental group contains torsion then $M(M)$ is infinite and there are some calculations in special cases.

We show that for M simply connected, $S(M)$ is infinite if and only if $M(M)$ is infinite. In other words we show that if there are infinitely many non-equivalent homotopy equivalences from some manifolds to M then among these manifolds are already infinitely many homeomorphism classes. We give a counter-example to this statement in the non-simply connected case and we also discuss some other more technical results in the non simply connected case.

Potential applications of this result include the proof that $M(M)$ is infinite in cases where this was not known before.

Authors: D. Crowley (University of Melbourne), **T. Macko** (MÚ SAV)

Projects: VEGA 1/0101/17 and APVV-16-0053

Reference: Crowley, D., **Macko, T.**: *On the cardinality of the manifold set*. In: *Geometriae Dedicata* (2019), Vol. 200 (1), pp 265-285, <https://doi.org/10.1007/s10711-018-0370-1> (SCOPUS)

--

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2019/ doplňky z r. 2018
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	1 / 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)	2 / 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)	35 / 6
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	38 / 6
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	8 / 1
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	2 / 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	2
18. Ostatné vydané periodiká	2
19. Zostavovateľské práce knižného charakteru (FAI)	2 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2018 (zdroj JCR) <i>Počet článkov / doplnky 2017</i>	18 / 1	9 / 3	8 / 0	8 / 5	43 / 9
Podľa SJR z r. 2018 (zdroj Scimago) <i>Počet článkov / doplnky 2017</i>	20 / 1	24 / 4	16 / 7	13 / 0	73 / 12

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2018/ doplnky z r. 2017
Citácie vo WOS (1.1, 2.1)	1046 / 25
Citácie v SCOPUS (1.2, 2.2)	168 / 20
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)	26 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	35
Prednášky a vývesky na domácich vedeckých podujatiach	14

Účasť a vedenie seminárov

Interný seminár o výsledkoch detašovaného pracoviska MÚ SAV v Košiciach

vedúci: R. Frič

referáty: P. Eliaš (2x), R. Frič (2x), J. Haluška, E. Halušková, M. Hospodár, G. Jirásková, I. Krajňáková, J. Pócs, M. Repický

účasť: D. Babicová, P. Mlynárčik, M. Ploščica

Seminár z kvantových logík

vedúci: A. Dvurečenskij, S. Pulmannová

referáty: R. Frič (2x)

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

Seminár z topológie a teórie množín na PF UPJŠ

vedúci: L. Bukovský (PF UPJŠ)

referáty: P. Eliaš (3x), M. Repický (4x)

Seminár o fuzzy logike a pravdepodobnosti na PF UPJŠ

vedúci: S. Krajčí (PF UPJŠ)

referáty: P. Eliaš (6x), R. Frič

Seminár z usporiadaných štruktúr na PF UPJŠ

vedúci: D. Studenovská-Jakubíková (PF UPJŠ)

referáty: E. Halušková (2x), J. Pócs (5x)

Set-Valued Analysis

vedúci: Ľ. Holá

referáty: B. Novotný (9x)

Seminár z teoretickej informatiky

vedúci: G. Jirásková

referáty: M. Hospodár (5x), G. Jirásková (10x), I. Krajňáková

Seminár z algebraickej geometrie na FMFI UK

vedúci: P. Chalmoviansky (FMFI UK)

referáty: T. Macko (2x)

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 (4x)

účast': J. Korbaš

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

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

účast': J. Pócs

Seminár z teórie kategórií

vedúci: A. Jenčová

referáty: A. Jenčová (2x), M. Plávala

účast': S. Pulmannová

Seminár na Katedre matematiky z agregáčnych funkcií (PF KU Ružomberok)

vedúci: M. Papčo (PF KU RK / MÚ SAV KE)

referáty: D. Babicová

RCQI seminár (FÚ SAV)

vedúci: M. Ziman (FÚ SAV)

účast': M. Plávala

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

1. **FRIČ, R.:** *Measures on product and stochastic independence*, Institute of Mathematics, Czech Academy of Sciences, Praha, Czech Republic, Seminar on Differential Equations and Integral Theory, Praha, Czech Republic, 5. 12. 2019.
2. **JENČOVÁ, A.:** *Incompatible measurements in GPT*, Workshop GPT&QIT Generalized Probabilistic Theories and Quantum Information, Lyon, 1.–2. 7. 2019.
3. **JENČOVÁ, A.:** *Randomization theorems for bipartite quantum channels*, BIRS Workshop: Algebraic and Statistical ways into Quantum Resource Theories, Banff, Canada, 22.–26. 7. 2019.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

1. **FRIČ, R.:** *Poznámky o kategoriálnej pravdepodobnosti*, Matematický ústav SAV, Seminar on Quantum Logics, Center of Excellence QUTE, Bratislava, 3. 12. 2019.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. **PAPČO, M.:** *On multidimensional deviation-based aggregation*, Departamento de Automática y Computación, Universidad Pública de Navarra, Pamplona, Španielsko, 1.–17. 10. 2019.
2. **VAJTERŠIC, M.:** *Parallelization of NMF (Nonnegative Matrix Factorization)*, Department of Computer Science, Tel Aviv University, Tel Aviv, Israel, 14. 5. 2019.
3. **VAJTERŠIC, M.:** *SIMD matrix-multiplication algorithms for massively parallel arrays*, Department of Computer Science, Hebrew University, Jerusalem, Israel, 15. 5. 2019.
4. **VAJTERŠIC, M.:** *Explicite formulas for Strassen's algorithm and their combinations with the classical matrix multiplication*, Hebrew University, Jerusalem, Israel, 6. 11. 2019.

2.6.4. Prednášky na medzinárodných vedeckých podujatiach

1. **BABICOVÁ, D.:** *Conditional Probability in Fuzzified Probability Theory*, ISCAMI 2019 (International Student Conference on Applied Mathematics and Informatics), Praha, ČR, 16.–19. 5. 2019.
2. **BUTKA, P.—PÓCS, J.—PÓCSOVÁ, J.:** *Note on aggregation functions and concept forming operators*, 10th International Summer School on Aggregation Operators, Olomouc, 1.–4. 7. 2019.
3. **ČUNDERLÍKOVÁ, K.:** *m-almost everywhere convergence of intuitionistic fuzzy observables induced by Borel measurable function*, 23rd International Conference on Intuitionistic Fuzzy Sets, Sofia, Bulharsko, 16.–17. 5. 2019.
4. **ČUNDERLÍKOVÁ, K.:** *Two Theorems from Extreme Value Theory for Interval Valued Events*, EUSFLAT'2019, Praha, Česká republika, 9.–13. 9. 2019.
5. **ČUNDERLÍKOVÁ, K.:** *Intuitionistic fuzzy probability and almost everywhere convergence*, IWIFSGN'2019, Varšava, Poľsko, 24.–25. 10. 2019.
6. **DAVIES, S.—HOSPODÁR, M.:** *Square, Power, Positive Closure, and Complementation on Star-Free Languages*, DCFS 2019 (The 21st International Conference on Descriptive Complexity of Formal Systems), Košice, 17.–19. 7. 2019.
7. **DILNA, N.—FEČKAN, M.—SOLOVYOV, M.—WANG, JR.:** *Symmetric nonlinear functional differential equations at resonance*, International Conference on Differential and Difference Equations and Applications, Lisbon, Portugal, 1.–5. 7. 2019.
8. **DOBREV, S.—NARAYANAN, L.—OPATRNY, J.—PANKRATOV, D.:** *Exploration of High-Dimensional Grids by Finite Automata*, ICALP 2019 (46th International Colloquium on Automata, Languages and Programming), Patras, Greece, 8.–12. 7. 2019.
9. **ĐURIŠ, S.—ĐURIŠOVÁ, Z.—WIMMER, G.—DOVICA, M.:** *Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels*, MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.
10. **FRIČ, R.:** *On Conditional Probability*, 33th International Summer Conference on Real Functions Theory, Ustka, Poland, 8. - 13. 9. 2019.
11. **HALAŠ, R.—PÓCS, J.:** *Sugeno Integrals on Bounded Distributive Lattices and their characterizations*, 24th International Conference on Mathematical Modelling and Analysis, Tallinn, 28.–31. 5. 2019.
12. **HALAŠ, R.—PÓCS, J.:** *Aggregation via clone theory approach*, 10th International Summer School on Aggregation Operators, Olomouc, 1.–4. 7. 2019.

13. **HALUŠKA, J.:** *On a generalization of the Gaussian plane to three dimensions*, Application of algebra in logic and computer science XXIII, Zakopane, 11.–17. 3. 2019.
14. **HALUŠKOVÁ, E.:** *On one discrete property of monotone functions*, AALCS XXIII (Applications of Algebra XXIII), Zakopane, Poľsko, 13.–17. 3. 2019.
15. **HOLÁ, Ľ.** — **HOLÝ, D.:** *Arzela-Ascoli type theorems for function spaces*, International Conference on Applied Mathematics, Marathon, Grécko, 14.-18. 7. 2019.
16. **HOLZER, M.** — **HOSPODÁR, M.:** *The Range of State Complexities of Languages Resulting from the Cut Operation*, LATA 2019 (Language and Automata Theory and Applications - 13th International Conference), St. Petersburg, Rusko, 26.–29. 3. 2019.
17. **HOSPODÁR, M.:** *Descriptive Complexity of Power and Positive Closure on Convex Languages*, CIAA 2019 (24th International Conference on Implementation and Application of Automata), Košice, 22.–25. 7. 2019.
18. **JENČOVÁ, A.:** *On the properties of spectral effect algebras*, SSAOS 2019 (Summer School on Algebra and Ordered Sets 2019), Karolinka, Czech Republic, 1.–7. 9. 2019.
19. **JIRÁSKOVÁ, G.** — **KLIMA, O.:** *Deterministic BIAutomata and Subclasses of Deterministic Linear Languages*, Language and Automata Theory and Applications - 13th International Conference, LATA 2019, St. Petersburg, Russia, 26.–29. 3. 2019.
20. **JIRÁSKOVÁ, G.** — **KRAJŇÁKOVÁ, I.:** *NFA-to-DFA Trade-Off for Regular Operations*, DCFS 2019 (The 21st International Conference on Descriptive Complexity of Formal Systems), Košice, 17.–19. 7. 2019.
21. **KAWARABAYASHI K.** — **MOHAR, B.** — **NEDELA, R.** — **ZEMAN, P.:** *Automorphism groups of maps in linear time*, Midsummer Combinatorial Workshop XXIV, Praha, ČR, 29. 7.–2. 8. 2019.
22. **KOCHOL, M.:** *Interpretations of the Tutte polynomials of regular matroids*, Comparative Theory for Graph Polynomials, Schloss Dagstuhl, Leibniz-Zentrum für Informatik GmbH, Nemecko, 29. 9.–4. 10. 2019.
23. **MACKO, T.:** *On higher structure sets of lens spaces*, Winter school in geometry and physics, Srni, ČR, 12.–19. 1. 2019.
24. **NEMOGA, K.** — **GROŠEK, O.:** *Secure Communication in the Quantum Era*, NATO Workshop on Secure Communication, Madrid, Španielsko, 24.–26. 9. 2019.
25. **NOVOTNÝ, B.** — **HOLÁ, Ľ.:** *Linear structure on the spaces of minimal usco and minimalusco maps*, The 33rd International Summer Conference on Real Functions Theory, Ustka, Poľsko, 8.–13. 9. 2019.
26. **OKŠA, G.** — **YAMAMOTO, Y.** — **VAJTERŠIĆ, M.:** *Asymptotic quadratic convergence of the two-sided parallel block-Jacobi SVD algorithm*, PARNUM 2019 (Parallel Numerics 2019), Dubrovnik, Croatia, 28.–31. 10. 2019.
27. **PLÁVALA, M.:** *No-free-information principle in general probabilistic theories*, Workshop GPT&QIT Generalized Probabilistic Theories and Quantum Information, Lyon, 1. 7. 2019.
28. **VAJTERŠIĆ, M.:** *Fast biharmonic solver and its scalability*, LSSC 2019 (Large Scale Scientific Computations 2019), Sozopol, Bulgaria, 10.–14. 6. 2019.
29. **WIMMER, G.** — **WITKOVSKÝ, V.:** *Two-dimensional linear comparative calibration and measurement uncertainty*, MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.
30. **WIMMER, G.** — **WITKOVSKÝ, V.:** *Confidence Regions for Parameters in Two-Dimensional Linear Comparative Calibration Model*, MathMet2019, International Workshop LNEC, Lisbon, Portugal, 20.–22. 11. 2019.
31. **WITKOVSKÝ, V.** — **WIMMER, G.:** *Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration*, MathMet2019, International Workshop, LNEC, Lisbon, Portugal, 20.–22. 11. 2019.

32. WITKOVSKÝ, V.— WIMMER, G.: *Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration*, MEASUREMENT 2019, Smolenice, 27.–29. 5. 2019.

2.6.5. Prednášky na domácich vedeckých podujatiach

1. BOKES, P.— NOVOTNÝ, B.— et al.: *Analysing skin cell gene expression data*, 51. konferencia slovenských matematikov, Jasná pod Chopkom, 28. 11.–1. 12. 2019.
2. DVUREČENSKIJ, A.: *Quo vadis, matematika?*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
3. ELIAŠ, P.: *Galoisova konexia určená zužovaním spojitých reálnych funkcií*, Seminár k 60. výročiu založenia Matematickeho ústavu SAV, Smolenice, 16.–17. 9. 2019.
4. FRIČ, R.: *Deliteľná pravdepodobnosť*, Seminár k 60. výročiu založenia Matematickeho ústavu SAV, Smolenice, 16.–17. 9. 2019.
5. HOLÁ, L.: *Topológie na funkcionálnych priestoroch*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
6. HOSPODÁR, M.: *Popisná zložitost' formálnych systémov*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
7. MRAČKA, I.: *Riešenie inverzných fyzikálnych problémov*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
8. NEDELA, R.: *20 rokov existencie pracoviska MÚ SAV v Banskej Bystrici*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
9. NEMOGA, K.: *60 rokov Matematického ústavu SAV*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
10. PLÁVALA, M.: *Matematické štruktúry v kvantovej teórii informácie*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
11. OKŠA, G.: *Efficient Serial and Parallel Block-Jacobi EVD/SVD Algorithms*, seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
12. PÓCS, J.: *Algebraické vlastnosti agregáčnych funkcií*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.
13. WIMMER, G.: *Kalibračné problémy*, Seminár k 60. výročiu založenia MÚ SAV, Smolenice, 16.–17. 9. 2019.

2.6.6. Prednášky na významných vedeckých inštitúciách

1. ČUNDERLÍKOVÁ, K.: *Individual ergodic theorem for intuitionistic fuzzy events using IF-probability*, Workshop on Intuitionistic Fuzzy Sets, Banská Bystrica, 9. 11. 2019 Banská Bystrica.
2. FRIČ, R.: *Stochastic Channel and Conditional Probability*, Matematický ústav SAV, Seminar on Quantum Logics, Center of Excellence QUTE, Bratislava, 11. 6. 2019.
3. HALUŠKOVÁ, E.: *On inverse limit closed classes of algebras*, Faculty of Mathematics and Information Science of Warsaw University of Technology, seminar "Seminarium z algebry ogólnej", 8. 10. 2019.
4. HALUŠKOVÁ, E.: *On direct limits of algebras*, Faculty of Mathematics, Informatics and Mechanics of University of Warsaw, seminar "Algebra", 10. 10. 2019.
5. JENČOVÁ, A.: *Rényi relative entropies and noncommutative L_p -spaces*, Analysis seminar, Bilkent University, Turecko, 7. 5. 2019.
6. KOCHOL, M.: *Splitting formulas for Tutte-Grothendiek invariants on graphs*, Universität Hamburg, Nemecko, 19.2.2019.

2.6.7. Ostatné prednášky

1. **DOBREV, S.:** *Ako nájsť poklad keď nemáš pamäť? (Prehľadávanie multi-dimenzionálnych mriežok konečnými automatmi)*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.
2. **FRIČ, R.:** *O čom matematika je/nie je*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.
3. **HAJOSSY, R.:** *Ako sínus s kosínusom rozhodujú o farbách jesenného lístia*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.
4. **HALUŠKOVÁ, E.:** *On discrete properties of monotone functions*, Institute of Mathematics of Siedlce University, seminar, 16. 10. 2019.
5. **HALUŠKA, J.:** *O matematickom modelovaní organového zvuku pozitívov Horného Gemera*, Vedecká kaviareň, 1. Slovenské gymnázium, Revúca, 11.–12. 9. 2019.
6. **HOSPODÁR, M.:** *O matematických automatoch*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.
7. **KRAJŇÁKOVÁ, I.:** *NFA-to-DFA Trade-Off for Regular Operations*, ústavný seminár MÚ SAV, d. p. Košice.
8. **MACKO, T.:** *O Eulerovom vzorci a futbalovej lopte*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.
9. **MLYNÁRČIK, P.:** *Niektoré zaujímavé úlohy z Matematickej olympiády*, Týždeň vedy a techniky 2019, Detašované pracovisko MÚ SAV v Košiciach, Košice, 4. 11. 2019.
10. **MLYNÁRČIK, P.:** *Matematika veselo a vážne*, Deň otvorených dverí detašovaného pracoviska MÚ SAV v Košiciach, Košice, 7. 11. 2019.
11. **MRAČKA, I.— ŽÁČIK, T.— HYČKO, M.— HAJOSSY, R.— SOMORA, P.:** *Optimization of Gas Transport –Evolutionary Calculations on a Small Cluster of Computers*, PSIG 2019 (Pipeline Simulation Interest Group), London, Great Britain, 14.–17. 5. 2019.
12. **NEMOGA, K.:** *NATO Cyber Security Projects*, NATO Science for Peace and Security Program Meeting, Malta University, Malta, 2.– 3. 4. 2019.
13. **NEMOGA, K.:** *50 rokov Rímskeho klubu*, Globálne riziká, problémy a riešenia v prvej polovici 21. storočia, pavilón QUTE FÚ SAV, Bratislava, 19. 6. 2019.
14. **NEMOGA, K.:** *Open Acces activities in Slovak Academy of Sciences*, 14th Munin Conference on Scholarly Publishing, Tromsø, Nórsko, 27.–28. 10. 2019.
15. **PLÁVALA, M.:** *Sčítanie a sumy v matematike od základnej školy po teóriu kategórií*, Deň otvorených dverí MÚ SAV, Bratislava, 6. 11. 2019.
16. **VAJTERŠIC, M.:** *ERASMUS+ Course on Efficient Parallel Algorithms for HPC Applications*, Tel Aviv University, Blavatnik School of Computer Science, Tel Aviv, Israel, 8.–19. 5. 2019.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019

2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2019

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 2019****b) udelené v roku 2019****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 2019 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
Repický Miroslav	APVV	1
Wimmer Gejza	VEGA	2

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
Čunderlíková Katarína	0	0	0	0	1	0	0
Dvurečenskij Anatolij	0	0	6	6	0	0	0
Eliaš Peter	0	0	0	1	0	0	0
Fečkan Michal	0	0	22	0	0	0	0
Frič Roman	0	0	1	0	0	0	0
Haluška Ján	0	1	0	0	0	0	0
Holá Ľubica	0	0	7	0	0	0	0

Tabuľka 2j (pokračovanie); Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Hospodár Michal	0	0	0	0	0	0	1
Hyčko Marek	0	0	9	5	0	0	0
Jenčová Anna	0	0	11	0	0	0	0
Jirásková Galina	0	1	0	0	0	0	3
Kochol Martin	0	0	3	4	1	0	0
Macko Tibor	0	0	3	0	0	0	0
Novotný Branislav	0	0	2	0	0	0	0
Plávala Martin	0	0	3	0	0	0	0
Pócs Jozef	0	0	7	1	0	0	5
Pospíšil Michal	0	0	5	0	0	0	0
Pulmannová Sylvia	0	0	3	2	0	0	0
Repický Miroslav	0	0	0	16	0	1	0
Vajteršic Marian	0	0	2	0	0	0	30
Vinceková Elena	0	0	2	0	0	0	0
Wimmer Gejza	1	0	3	0	0	1	0
Spolu	1	2	89	35	2	2	39

2.11. Iné informácie k vedeckej činnosti.

Ostatné dosiahnuté výsledky:

- Riešili sme hľadanie pokladu v n -rozmernej nekonečnej mriežke pre $n \geq 3$ konečne-stavovými automatmi, ktoré začínajú spolu v tom istom bode. Tento problém bol nedávno plne charakterizovaný pre dvojrozmerné mriežky s deterministickými aj randomizovanými agentami, pre plne synchronny aj semi-synchronny model. Bola vyslovená hypotéza, že na vyriešenie tohto problému v n -rozmernej mriežke je potrebných $n+1$ randomizovaných agentov. Vyvrátili sme túto hypotézu. Ukázali sme, že traja randomizovaní synchronni agenti stačia na preskúmanie n -rozmernej mriežky pre ľubovoľné n . Náš algoritmus používa najmenší možný počet agentov. Kľúčovým vhl'adom je pozorovanie, že konštantný počet konečne-stavových agentov dokáže svojimi pozíciami a pohybom implementovať zásobník; tento zásobník postačuje na implementáciu prehľadávania tým že je v ňom uložená súčasne prehľadávaná cesta. Ukazujeme tiež ako implementovať náš algoritmus s použitím štyroch randomizovaných semi-synchronných agentov, štyroch deterministických synchronných agentov a piatich deterministických semi-synchronných agentov.
- Pokračujeme v budovaní teórie zovšeobecnenej pravdepodobnosti a zovšeobecnenej asymetrickej podmienenej pravdepodobnosti. Venujeme sa konštrukcii podmienenej pravdepodobnosti pre fuzzifikované udalosti. Sústreďíme sa na diskretný prípad a indikujeme posun ku zovšeobecnému prípadu.

- Pre jednostrannú blokovú Jacobiho metódu na výpočet SVD sme zaviedli predpodmieňovač. Naše experimenty ukazujú, že táto metóda je rýchlejšia ako ostatné algoritmy na výpočet SVD, v sériovom ako aj v paralelnom prípade. Avšak jej výkonnosť sa zhoršuje v prípade zle podmienených matic. Urobili sme numerickú analýzu použitia predpodmieňovača v konečnej aritmetike a ukázali sme dôvody tohto problému.
- Dokázali sme variant Loomisovej-Sikorského vety pre EMV.
- Zaviedli sme nekomutatívny variant EMV-algebier, pseudo EMV-algebry. Dokázali sme zovšeobecnenie reprezentačnej vety pre pseudo EMV-algebry. Tieto algebry netvoria varietu, ale štruktúru blízku varietam, a systém takýchto podvariet je nespočítateľný, zatiaľ čo v prípade komutatívnych EMV-algebier je ich spočítateľný.
- Študovali sme jedno-jednoznačný vzťah medzi pozorovateľnými a spektrálnymi rozkladmi na určitých triedach efektových algebier a MV-algebier. Ukázali sme, že táto korešpondencia platí na Rad-Dedekindovských perfektných MV-algebrách. V takomto prípade sme museli dať silnejšie podmienky na spektrálny rozklad. Prípád perfektných efektových algebier sa tiež dokázal.
- Jedno-jednoznačná korešpondencia medzi pozorovateľnými a spektrálnymi rozkladmi sa skúmala na lexikografických MV-algebrách a lexikografických efektových algebrách. V tomto prípade pozorovateľné majú nutne podmienku konečnosti a preto pre spektrálne rozklady sa musela zaviesť táto podmienka.
- Boli charakterizované systémy spojitých reálnych funkcií zodpovedajúce určitým zväzom uzavretých podmnožín reálnej priamky v Galoisovej konexii určenej rozširovaním definičného oboru spojitých reálnych funkcií.
- Bola dokázaná verzia Radon-Nikodymovej vety pre Markovovské jadrá a tým popísaný jednoznačný vzťah medzi istými typmi súčinov zovšeobecnených pravdepodobnostných priestorov a pravdepodobnostnými mierami na súčinovom priestore.
- Bola systematicky vybudovaná teória deliteľnej pravdepodobnosti ako kategoriálne rozšírenie klasickej pravdepodobnosti.
- Vytvorili a skúmali sme zovšeobecnenie poľa Gaussovských komplexných čísel do 3-, 4-, a 6- rozmerných reálnych algebier. Operácie násobenia sú v týchto algebrách definované pomocou Hankelových matic.
- Nech h je funkcia definovaná na množine A taká, že $h(A)$ je podmnožina A a nech u je čiastočné usporiadanie na množine A . Ukázali sme, že existuje trieda algebier M taká, že ak h je monotónna vzhľadom k u , tak algebra (A, h) patrí do M . Navyše sme dokázali nasledujúcu vlastnosť triedy M : Ak algebra (B, g) je prvkom M , tak existuje lineárne usporiadanie také, že g je monotónna vzhľadom k tomuto usporiadaniu. Ďalej, urobili sme rozklad množiny všetkých reálnych spojitých monotónnych funkcií na 11 tried podľa rozkladu na komponenty monounárnych algebier, ktoré tieto funkcie určujú.
- Definovali sme vektorovú štruktúru na priestore minimálnych usco/cusco zobrazení z lokálne kompaktného priestoru do Stegallovoho lokálne konvexného priestoru. Dokázali sme, že keď sú tieto priestory vybavené topológiou rovnomernej konvergenzie na kompaktoch, tak sú lokálne konvexné.
- Skúmala sa popisná zložitosť operátora forever, ktorý regulárnemu jazyku L priradzuje jazyk $\overline{\Sigma^* L}$ a vyšetrujú sa prevody medzi rôznymi modelmi konečných automatov. Uvažujú sa úplné a čiastočné deterministické konečné automaty, nedeterministické konečné automaty s jedným alebo viacerými počiatočnými stavmi, alternujúce a booleovské konečné automaty. Predpokladá sa, že argument a výsledok tejto operácie sú akceptované automatmi patriacimi do jedného z týchto šiestich modelov. Vyšetrujeme všetky možné prevody a poskytujeme presnú hodnotu zložitosti pre 32 z 36 z nich. Najzaujímavejší výsledok je prevod z nedeterministických do deterministických automatov, ktorý je určený Dedekindovým číslom $M(n-1)$. Tiež dokazujeme, že nedeterministická stavová zložitosť operácie $\overline{\Sigma^* L}$ je 2^{n-1} , čo rieši otvorený problém formulovaný Birgetom.

- Vyšetrovala sa stavová zložitosť jazykov, ktoré sú výsledkom operácie strojového zret'azenia dvoch regulárnych jazykov reprezentovaných minimálnymi deterministickými konečnými automatmi s m a n stavmi. Dokazujeme, že celý rozsah zložítostí až po známú hornú hranicu, ktorá má hodnotu m ak $n=1$ a $(m-1)n+m$ inak, môže byť vyrobený v prípade, že vstupná abeceda má aspoň dva symboly. Navyše dokazujeme, že v unárnom prípade iba zložítosti nanajvyš $2m-1$ a medzi n a $m+n-2$ môžu byť dosiahnuté, čo znamená, že ak $2m \leq n-1$, potom zložítosti od $2m$ do $n-1$ nemôžu byť vyrobené.
- Študujeme popisnú zložitosť operácií k -tej mocniny a pozitívneho uzáveru na triedach bezpredponových, bezpríponových, bezfaktorových a bezpodslovových, predponovo, príponovo, faktorovo a podslovovo uzavretých a konvexných regulárnych jazykov, a na triedach pravo, ľavo, obojstranne a všetkostranne ideálnych jazykov. Ukážeme, že horná hranica kn na zložitosť k -tej mocniny v triede regulárnych jazykov je tesná pre uzavreté a konvexné triedy, zatiaľ čo v ostatných triedach, tesná horná hranica je $k(n-1)+1$. Ďalej ukážeme, že horná hranica n na nedeterministickú zložitosť operácie pozitívneho uzáveru v triede regulárnych jazykov je tesná vo všetkých uvažovaných triedach okrem tried faktorovo a podslovovo uzavretých jazykov, kde zložitosť má hodnotu jeden. Všetky naše najhoršie prípady sú popísané nad unárnou alebo binárnou abecedou. Navyše, vždy keď je na popis najhoršieho prípadu použitá binárna abeceda, je optimálna v tom zmysle, že zodpovedajúcu hornú hranicu nie je možné dosiahnuť jazykom nad unárnou abecedou. Najzaujímavejší výsledok je popis binárnych podslov uzavretého jazyka, ktorý dosahuje hornú hranicu kn pre k -tú mocninu.
- Skúma sa deterministická a nedeterministická stavová zložitosť štvorca, mocniny, pozitívneho uzáveru a doplnku na bezhviezdičkových jazykoch. Pre stavovú zložitosť štvorca dostávame netriviálnu hornú hranicu $(n-1)2^n - 2(n-2)$ a dolnú hranicu rádovo $\Theta(n2^n)$. Pre stavovú zložitosť k -tej mocniny v unárnom prípade dostávame presnú hodnotu zložítosti $k(n-1)+1$. Ďalej ukazujeme, že horná hranica na nedeterministickú stavovú zložitosť k -tej mocniny, kn , sa dosahuje binárnymi bezhviezdičkovými jazykmi, zatiaľ čo v unárnom prípade máme dolnú hranicu $k(n-1)+1$. Pre pozitívny uzáver ukazujeme, že deterministická horná hranica $2^{n-1}+2^{n-2}-1$, ako aj nedeterministická horná hranica n , sa dosahujú bezhviezdičkovými jazykmi. Tiež ukazujeme, že v unárnom prípade je stavová zložitosť pozitívneho uzáveru $n^2-7n+13$ a nedeterministická stavová zložitosť doplnku je medzi $(n-1)^2+1$ and n^2-2 .
- Spravila sa implementácia výpočtu optimalizačných úloh týkajúca sa prepravy plynu v plynovodoch na počítačovom klastri.
- Našli sme charakterizáciu rôznych typov simulability kvantových kanálov a meraní pomocou pravdepodobností úspechu v testovaní hypotéz (guessing games).
- Študovali sme pozorovateľné na špeciálnych typoch synaptických algebier a ich spektrálne rozklady.
- Definovali sme deterministické biautomaty a študovali sme 4 podtriedy lineárnych jazykov, ktoré sú rozpoznávané 4 špecifickými podtriedami deterministických biautomatov. Dostali sme viacero uzáverových vlastností, ktoré sme použili na riešenie rozhodnuteľnosti problémov týkajúcich sa týchto 4 tried.
- Dokázali sme, že veta Lovász, Thomassena, Wua a Zhanga z roku 2013, že každý hranovo 6-súvislý graf je A-súvislý (kde A označuje Abelovskú grupu rádu 3), je ekvivalentná so silnejším tvrdením s tým, že dovoľíme existenciu troch vrcholov, ktoré môžu byť separované hranovými rezmi rádu menej ako 6. Podobne dokazujeme ekvivalentnú verziu pre hypotézu Jaegera, Liniala, Payana, and Tarsiho z roku 1992, že každý hranovo 5-súvislý graf je A-súvislý.
- Odvodili sme explicitnú formulu pre Z_2 -kohomologickú dĺžku Stiefelových variet $V_{n,r}$ pre všetky $1 \leq r \leq n-1$, a pre projektívne Stiefelove variety $X_{n,r}$ s $n > 2r-1$. Odvodzujeme aj niektoré čiastkové výsledky pre posledne menovaný prípad, keď $n \leq 2r-1$ sú dané, ako aj niektoré relácie medzi týmito dvoma prípadmi.

- Skúmali dôsledky pre Lyusternikovu-Shnireľmanovu kategóriu.
- Boli dotiahnuté detaily v štúdiu štruktúrnej množiny $S(L \times D)$ súčinu $L \times D$ šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium ρ -invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny $S(L \times S)$ súčinu $L \times S$ šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.
- Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny $S(L \times D)$ aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.
- Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórii chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranického formulácii tejto teórie pri vhodných voľbách.
- Bola dokázaná asymptotická kvadratická konvergencia sériového a paralelného blokového Jacobiho algoritmu pre výpočet SVD plných matic s dynamickým usporiadaním subproblémov. Bolo navrhnuté nové predpokladenie pre vyššie spomenutý algoritmus a boli analyzované numerické vlastnosti aplikácie predpokladenia. Predpokladaný algoritmus je veľmi rýchly.
- Študovali sa informačno-teoretické a geometrické vlastnosti konečno-rozmerných konvexných efektových algebier a stavové priestory na týchto algebrách.
- Bola popísaná všeobecná metóda na vytvorenie generujúcej množiny agregáčného klonu na konečnom zväze L . Popísaný postup je založený na rozšírení L -hodnotových kapacít (monotónnych L -hodnotových fuzzy mier). Je prezentovaných niekoľko generujúcich množín s ohľadom na aritu funkcií vystupujúcich v týchto množinách.
- Alternatívne čiastočne usporiadanie, tzv. spektrálne usporiadanie, je definované a skúmané na synaptickej algebre - zovšeobecnení samoadjungovanej časti von Neumannovej algebry.
- Je ukázané, že ak synaptická algebra je v norme úplná, tak v spektrálnom usporiadaní je Dedekindovo sigma-úplný zväz.
- Pre generalizované pseudoefektové algebry (GPEA) je definovaný nový typ kongruencie, tzv. R_1 -kongruencie, ktorý je v jedno-jednoznačnej korešpondencii s R_1 -ideálmi. Tieto kongruencie sú porovnané s Rieszovými kongruenciami, ktoré zodpovedajú Rieszovým ideálom. Je ukázané, že v nahor usmernenej GPEA obidva typy kongruencií sa zhodujú.
- V prehľadovom článku sú synaptické algebry predstavené ako modely kvantovej mechaniky. Pozornosť je venovaná hlavne stavom, pozorovateľným, a rozkladom na typy, podobné typom von Neumannových algebier.
- Každý Rosenthalov filter je prienikom konečného počtu Rosenthalových ultrafiltrov navzájom neporovnateľných v Rudinovej-Keislerovom čiastočnom usporiadaní ultrafiltrov. Nasledujúce tvrdenie je konzistentné so ZFC: Existuje nespočítateľný systém ultrafiltrov taký, že prienik ľubovoľného konečného podsystému je Rosenthalov filter.
- Vypracovala sa analýza výpočtovej zložitosti inklúzie Strassenovho algoritmu do modifikácií metódy maticového násobenia.
- Analyzovala sa kalibrácia meradla nominálnej dĺžky 50 mm z technického doporučenia EA-4/02. V pôvodnom riešení sa našli chyby a prepočítala sa bilančná tabuľka neistôt. Porovnávali sa novo-získané riešenia získané podľa a) metrologickej normy GUM, b) Monte Carlo simulácií, c) metódy CFA (Characteristic Function Approach), ktorá je postavená na inverzii charakteristickej funkcie optimálneho lineárneho odhadu meranej veličiny. K analýze bolo potrebné sformulovať nové matematicko-štatistické výsledky.

- Etalóny plyných zmesí etanolu v dusíku sa pripravujú na Slovenskom metrologickom ústave pomocou gravimetrickej metódy. Etanol (kvapalná zložka) sa pridáva do špeciálnej fľaše vzduchotesnou injekčnou striekačkou. Množstvo pridanej kvapaliny sa určuje vážením striekačky. Pri určení hodnoty etalónu a jej neistoty boli aplikované rôzne metódy (metóda podľa GUM-u, metóda Monte Carlo a metóda CFA (Characteristic Function Approach).
- V matematicko-štatistických aplikáciách teórie merania je kalibrácia štandardný postup na stanovenie vzťahu medzi dvomi meracími prístrojmi (zariadeniami, metódami). Tento (teoretický, ideálny) vzťah je zaťažený neistotami merania oboch prístrojov. Sú to neistoty vyhodnocovania typu A aj typu B (podľa základného metrologického predpisu GUM). Kalibračná funkcia je odhadovaná z kalibračného experimentu. Táto je v ďalšom požitá na predikciu neobservovateľnej hodnoty na etalóne a jej neistoty podľa indikácie (nameranej hodnoty) na kalibrovanom prístroji. Zhrnuli sa doterajšie výsledky v danej oblasti lineárnej a polynomickej komparatívnej kalibrácie a vyvstal prirodzený problém použitia inverzného vzťahu pri modelovaní kalibračnej krivky, keď sa zamení štandardný vzťah medzi meraniami na etalóne a na kalibrovanom prístroji.
- Nízkolegované ocele sa často používajú v priemysle kvôli ich lepším mechanickým vlastnostiam než majú nelegované alebo vysokolegované ocele. Veľký vplyv na ich vlastnosti má hlavne chemické zloženie a metalurgické a tepelné spracovanie. Ocele zvyčajne majú najlepšie vlastnosti pri bežnej teplote a s poklesom okolitej teploty sa stávajú krehkými. Nízkolegované ocele s úpravou ich chemického zloženia je možné použiť pri teplotách do -40°C . Bežne používané nízko legované ocele majú chemické zloženie stopových prvkov, ktoré sa môže v definovanom rozsahu zmeniť. Je veľmi dôležité správne a presne určiť jednotlivé prvky pridané do ocelí. V tejto práci sme sa zamerali na určenie dvoch legovacích prvkov, menovite uhlíka a síry, ktoré patria k najdôležitejším legujúcim prvkom. Uhlík sa zvyčajne určuje coulometrickou a spektrometrickou metódou, ako aj tepelnou vodivosťou. Síra sa zvyčajne určuje titračnou a spektrometrickou metódou. Certifikované referenčné materiály s obsahom uhlíka a síry v oceli je možné použiť na kalibráciu meracích zariadení pre nízkolegované ocele. Tieto certifikované referenčné materiály majú dlhodobú stabilitu, ktorá sa kontroluje každých 10 rokov. Demonštroval sa praktický príklad kontroly stability 3 certifikovaných referenčných materiálov ocele s prímiesami uhlíka a síry.
- Analyzoval sa model dvojrozmernej komparatívnej kalibrácie. Je to model, v ktorom dvojrozmerné merania indikované dvomi meracími prístrojmi (zariadeniami) majú normálne rozdelené chyby merania. Model sa replikuje. Z hľadiska matematickej štatistiky ide o mnohorozmerný lineárny regresný model s nelineárnymi podmienkami na parametre. Po vhodnej linearizácii môže byť tento model reprezentovaný ako lineárny model merania s podmienkami typu II na parametre. Navrhol sa iteratívny algoritmus pre optimálny odhad parametrov tohto modelu. Tiež sa vyriešil problém popisu aproximatívnej konfidenčnej oblasti pre vektor parametrov kalibračnej funkcie ako aj popis konfidenčnej oblasti pre lineárny funkcionál týchto parametrov. Riešenie je založené na metóde navrhnutej Kenwardom a Rogerom.
- Vychádza sa z toho, že kalibračný experiment poskytuje priame merania stanovené tzv. state-of-knowledge distribúciou podľa najnovších poznatkov metrológa, odvodenou pomocou metód hodnotenia neistôt typu A a typu B. V klasickom usporiadaní založenom na použití inverznej predikcie vyžaduje prístup metódou Monte Carlo simulácií určenie koreňa kalibračnej funkcie v každom simulačnom kroku, čo môže byť výpočtovo veľmi náročná úloha. Vyvoláva to prirodzenú otázku o možnosti použitia inverzného vzťahu pri modelovaní kalibračnej funkcie zmenou štandardných úloh stimulu a odozvy. Tiež to vedie k počítačovo jednoduchšej priamej predikcii. Skúmal sa účinok použitia inverzného vzťahu pri modelovaní kalibračnej funkcie, t.j. zmenou štandardných úloh stimulu a odozvy v uvažovanej kalibračnej funkcii.

- V polynomickej modeli komparatívnej kalibrácie s normálne rozdelenými chybami merania u etalónu aj u kalibrovaného meradla sa analyzovali dve rôzne cesty (možnosti) získania konfidenčných oblastí pre parametre kalibračnej funkcie pomocou aproximácie navrhutej Kenwardom a Rogerom. Tieto dve konfidenčné oblasti sa porovnávali pomocou simulačnej štúdie. Výsledky simulácií ukazujú, že obe konfidenčné oblasti sa správajú prakticky rovnako.

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 2019

Tabuľka 5a Počet doktorandov v roku 2019												
Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	3	2	2	0	2	2	2	0	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	1	0	0	0	1	0	0	0	0	0	0
Spolu	3	3	2	0	2	3	2	0	0	0	0	0
Súhrn	6		2		5		2		0		0	

Uvádzajte 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 2019 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 2019 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
Ing. Michal Hospodár	interné štúdium hradené z prostriedkov SAV	9 / 2015	8 / 2019	9.1.9 aplikovaná matematika	RNDr. Galina Jirásková CSc., Detašované pracovisko Matematického ústavu SAV v Košiciach	Fakulta matematiky, fyziky a informatiky UK
RNDr. Martin Plávala	interné štúdium hradené z prostriedkov SAV	9 / 2015	8 / 2019	9.1.9 aplikovaná matematika	Mgr. Anna Jenčová DrSc., Matematický ústav SAV	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 2019 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
-----------------	----------	---------------------------	----------------------	---------------------------------	------------------------------	-----------------------------------

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)	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
2	2	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 Účast' na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
doc. RNDr. Ján Borsík, CSc. (matematická analýza)	prof. RNDr. Anatolij Dvurečenskij, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Nataliya Dilna, PhD. (IIa)
prof. RNDr. Anatolij Dvurečenskij, DrSc. (pravdepodobnosť a matematická štatistika)	prof. RNDr. Anatolij Dvurečenskij, DrSc. (Prírodovedecká fakulta, Univerzita Hradec Králove, ČR)	Mgr. Anna Jenčová, DrSc. (I)
prof. RNDr. Anatolij Dvurečenskij, DrSc. (aplikovaná matematika)	RNDr. Stanislav Jakubec, DrSc. (Prírodovedecká fakulta, Univerzita Hradec Králové, ČR)	doc. Mgr. Ján Karabáš, PhD. (IIa)
prof. RNDr. Michal Fečkan, DrSc. (matematická analýza)	prof. RNDr. Július Korbaš, CSc. (Fakulta matematiky, fyziky a informatiky UK)	Ing. Michal Hospodár, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
prof. RNDr. Michal Fečkan, DrSc. (numerická analýza a vedecko-technické výpočty)	prof. RNDr. Roman Nedela, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	RNDr. Martin Pláva, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
prof. RNDr. Michal Fečkan, DrSc. (aplikovaná matematika)	prof. RNDr. Roman Nedela, DrSc. (Fakulta prírodných vied UMB)	
doc. RNDr. Roman Frič, DrSc. (pravdepodobnosť a matematická štatistika)	prof. RNDr. Roman Nedela, DrSc. (Univerzita Mateja Bela v Banskej Bystrici)	

Tabuľka 3h (pokračovanie) Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
doc. RNDr. Roman Frič, DrSc. (geometria a topológia)	doc. RNDr. Karol Nemoga, CSc. (Fakulta prírodných vied UMB)	
doc. RNDr. Ľubica Holá, DrSc. (geometria a topológia)	doc. RNDr. Karol Nemoga, CSc. (Přírodovědecká fakulta, Univerzita Hradec Králove, ČR)	
doc. RNDr. Ľubica Holá, DrSc. (aplikovaná matematika)		
doc. RNDr. Ferdinand Chovanec, CSc. (pravdepodobnosť a matematická štatistika)		
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. (kvantitatívne metódy v ekonómii)		
prof. RNDr. Gejza Wimmer, DrSc. (metrológia)		
prof. RNDr. Gejza Wimmer, DrSc. (pravdepodobnosť a matematická štatistika)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

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. 2019	501	183	609	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	5
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	7
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	6
4.	Počet školených doktorandov (aj pre iné inštitúcie)	8
5.	Počet oponovaných dizertačných a habilitačných prác	4
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	2
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	5
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	2

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 2019 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

21. medzinárodná konferencia Popisná zložitost' formálnych systémov (DCFS 2019), Košice, 17.07.-19.07.2019

24. medzinárodná konferencia Implementácia a aplikácia automatov (CIAA 2019), Košice, 22.07.-25.07.2019

24th Central European Number Theory Conference, Univerzita J. Selyeho, Komárno, 70 účastníkov, 01.09.-06.09.2019

33rd International Summer Conference on Real Functions Theory, Ustka, Poľsko, 40 účastníkov, 08.09.-13.09.2019

Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský, Košice, 09.09.-13.09.2019

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

58th Summer School on General Algebra and Ordered Sets (SSAOS 2020)/58. Letná škola z algebry a usporiadaných množín (SSAOS 2020), Smižany, 30.08.-05.09.2020, (Jozef Pócs, 055/ 622 82 91, pocs@saske.sk)

34th International Summer Conference on Real Functions Theory / 34. Medzinárodná letná konferencia z teórie reálnych funkcií, Stará Lesná, 06.09.-11.09.2020, (Lubica Holá – chair, 02 / 57 510 502, lubica.hola@mat.savba.sk, Peter Eliaš, 055/ 234 2202, elias@saske.sk, Roman Frič, 055/ 622 82 91, fric@saske.sk, Branislav Novotný, 02 / 57 510 413, branislav.novotny@mat.savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Borsík Ján	1	0	0
Eliaš Peter	0	1	0
Frič Roman	1	0	0
Hospodár Michal	0	2	0
Jirásková Galina	0	0	2
Krajňáková Ivana	0	2	0
Mlynárčik Peter	0	2	0
Nemoga Karol	3	0	0
Palmovský Matúš	0	2	0
Pócs Jozef	0	1	0
Repický Miroslav	0	1	0
Vajteršic Marian	1	0	1
Spolu	4	11	3

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 Slovenskú republiku)

doc. RNDr. Karol Nemoga, CSc.

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
Kochol Martin	GAUK	1
Nemoga Karol	NATO ISEG, NATO SPS Programme	21

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

E. Plávalová spolupracovala v skupine Exoplanet Group s Astronomickým ústavom AV ČR v Ondřejove, ČR. Zoznam všetkých členov skupiny je na stránke:
http://stelweb.asu.cas.cz/exogroup/en_members.html.

K. Čunderlíková bola v rámci MAD medzi SAV a PAN na Systems Research Institute, Polish Academy of Sciences a na konferencii IWIFSGN 2019, kde nadviazala vedeckú spoluprácu s Dr. Piotrom Dworniczakom z poľskej univerzity v Śróde Wielkopolskiej a s pracovníkom SRI PAS doc. Piotrom Nowakom.

E. Halušková v rámci bilaterálnej dohody medzi MŠVVŠ SR a Ministerstvom vedy a vyššieho vzdelávania Poľskej republiky bola 27 dní na Institute of Mathematics of Siedlce University of Natural Sciences and Humanities, Siedlce, Poľsko. Cieľom bolo aplikovať jej výsledky a skúsenosti ohľadom limitných konštrukcií univerzálnych algebier a monounárnych algebier do okruhov. Tento cieľ ohľadom konštrukcie direktnnej limity bol splnený. Rozpracovanie duálnej konštrukcie, konštrukcie inverznej limity sa z časových dôvodov ukázalo ako nereálne.

G. Okša sa v Salzburgu zúčastnil prípravy projektu Slovensko-Rakúsko-Japonsko v oblasti numerickej lineárnej algebry týkajúceho sa výskumnej činnosti v oblasti konvergenzie Jacobiho metódy.

Projekt bol v októbri 2019 schválený v Japonsku a Oddelenie informatiky MÚ SAV (riešitelia M. Bečka, G.Okša) je jeho súčasťou:

1. Názov projektu: Development of the next-generation eigenvalue/singular value decomposition library with high scalability and high accuracy
2. Časové obdobie: 10/2019 – 03/2023 (3,5 roka)
3. Grantová agentúra: Japan Society for the Promotion of Science
4. Vedúci projektu: Prof. Yusaku Yamamoto, Dept. of Communication Engineering and Informatics, University of Electro-Communications, Tokyo, Japan

M. Plávala nadviazal počas konferencie v Lone (Works hop GPT & QIT) spoluprácu s Guillaume Aubrun a Ludovico Lami ohľadom vyriešenia otvorenej otázky ohľadom tenzorových súčinov kužeľov. Tento problém bol otvorený už takmer 50 rokov. Vďaka tomu, že sa autori mohli osobne stretnúť a nadviazať spoluprácu, sa ho podarilo vyriešiť.

M. Plávala pri návšteve v Pavii v januári 2019 mal možnosť sa stretnúť a diskutovať o kategoriálnej formulácii nekauzálnych teórii, z ktorej vznikol nápad na prístup k danej problematike pomocou konvexnej geometrie. Tento prístup sa začal rozvíjať na Matematickom ústave a jeho rozvoj bol zaradený ako úloha do žiadosti o nový VEGA grant.

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. Určuje hlavné zameranie ústavu vo všetkých smeroch jeho činnosti.

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 a aktualizovaný pred výročným seminárom 1. Oddelenia vied SAV.

V roku 2019 sme urobili niekoľko výrazných krokov v jeho plnení:

- Prijali sme dvoch postdoktorandov, úspešných absolventov PhD štúdia na Matematickom ústave SAV v roku 2019.
- Prijali sme dvoch ďalších študentov doktorandského štúdia.
- Zrealizovali sme výberové konanie na obsadenie miesta vedeckého pracovníka pre oblasť matematickej štatistiky. Víťaz konkurzu – mladý docent nastúpil 1.1. 2020.
- S Výskumnou agentúrou sme podpísali dve zmluvy na realizáciu projektov Operačného programu Výskum a inovácie v hodnote cca 2 milióny EUR.
- Podali sme jeden projekt Operačného programu Výskum a inovácie, spolu s ďalšími 9 pracoviskami, ako hlavný riešiteľ. Hodnota projektu je asi 8 miliónov EUR.
- Zriadili sme medzinárodný poradný panel Matematického ústavu SAV.

Týmito krokmi sme plnili odporúčania akreditačného panelu smerom ku omladeniu ústavu, posilneniu počtu postdoktorandov a zvýšeniu počtu doktorandov. Rozšírili sme spoluprácu o ďalšie atraktívne smery, ako nám bolo odporúčané. Súčasne sme rozšírenie spolupráce zamerali na získavanie ďalších mimorozpočtových zdrojov, čo umožní ďalšie zvýšenie počtu mladých pracovníkov.

5.3. Aktualizácia Akčného plánu organizácie v roku 2019

Aktualizácia akčného plánu na rok 2019 nebola výrazná. Podstatnou úlohou bolo plnenie existujúceho plánu. Stav plnenia vid' bod 5.2. 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: 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.

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: 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

Pozri 6.1.3.

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

6.1.3. Spoločné pracoviská s VŠ/fakultami a inými organizáciami SAV

Názvy organizácií: Fakulta prírodných vied UMB / Ústav vied o Zemi SAV / Ústav Informatiky SAV / Centrum biológie rastlín a biodiverzity SAV, Botanický ústav 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.

Názvy organizácií: Fakulta zdravotníctva a sociálnej práce, Trnavská univerzita, Trnava / Slovenská technická univerzita, Bratislava / Ústav merania SAV / BMC SAV

Oblasť spolupráce: spoločný vedecko-výskumný grant

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2019

Zhodnotenie: Matematický ústav SAV v roku 2019 uzavrel zmluvu o budúcej zmluve o zriadení spoločného pracoviska s Trnavskou univerzitou v Trnave, Fakultou zdravotníctva a sociálnej práce. Ďalší účastníci budú aj STU, Ústav merania SAV a BMC SAV. Aj s týmito účastníkmi boli uzavreté zmluvy.

Predmetom zmluvy je budúce zriadenie spoločného pracoviska, so sídlom na Fakulte zdravotníctva a sociálnej práce, Trnavská univerzita, Trnava, na realizáciu spoločných výskumných a odborných aktivít pri realizácii projektu “Inteligentné technológie na manažment zdravotného stavu rizikovej skupiny tehotných žien“, ktorý je uvedený v časti 2.2.3.

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

Koordinátora projektu:

Začiatok spolupráce: 2013

Koniec spolupráce: trvá

Zhodnotenie: Rozpracované boli metódy ochrany informácií. Finančný prínos pre organizáciu 0 EUR.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. 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
prof. RNDr. Anatolij Dvurečenskij, DrSc.	Pracovná skupina pre matematiku Akreditačnej komisie vlády SR	člen
doc. RNDr. Karol Nemoga, CSc.	Zbor expertov – ISEG, NATO	člen

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
-----------------	--------------	---------

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	13	tlač	3	TV	1
rozhlás	0	internet	7	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
Globálne riziká, problémy a riešenia v prvej polovici 21. storočia	domáca	pavilón QUTE, FÚ SAV, Patrónka, Bratislava	19.06.-19.06.2019	50
21. medzinárodná konferencia Popisná zložitost' formálnych systémov (DCFS 2019)	medzinárodná	Košice	17.07.-19.07.2019	36
24. medzinárodná konferencia Implementácia a aplikácia automatov (CIAA 2019)	medzinárodná	Košice	22.07.-25.07.2019	43
24th Central European Number Theory Conference	medzinárodná	Univerzita J. Selyeho, Komárno	01.09.-06.09.2019	70
33rd International Summer Conference of Real Functions Theory	medzinárodná	Ustka, Poľsko	08.09.-13.09.2019	40
Set-theoretic methods in topology and real functions theory, dedicated to 80th birthday of Lev Bukovský	medzinárodná	Košice	09.09.-13.09.2019	70

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

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

9.5. Členstvo v redakčných radách časopisov

doc. RNDr. Ján Borsík, CSc.

Mathematica Slovaca (funkcia: editor)

Tatra Mountains Mathematical Publications (funkcia: editor)

RNDr. Katarína Čunderlíková, PhD.

Notes on Intuitionistic Fuzzy Sets (funkcia: Editorial Board)

prof. RNDr. Anatolij Dvurečenskij, DrSc.

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

Indian Journal of Mathematics (funkcia: člen)

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.

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

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ján Haluška, CSc.

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

Tatra Mountains Mathematica Publications (funkcia: člen redakčnej rady)

doc. RNDr. Ľubica Holá, DrSc.

Khayyam Journal of Mathematics (funkcia: člen redakčnej rady)

Mathematica Slovaca (funkcia: člen redakčnej rady)

Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

prof. RNDr. Juraj Hromkovič, DrSc.

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

RNDr. Stanislav Jakubec, DrSc.

Mathematica Slovaca (funkcia: redaktor pre algebraickú teóriu čísel)

prof. RNDr. Július Korbaš, CSc.

Mathematica Slovaca (funkcia: zodpovedný redaktor)

prof. RNDr. Roman Nedela, DrSc.

Acta Universitatis Mathiae Belii, Ser. Math. (funkcia: člen redakčnej rady)
Ars Mathematica Contemporanea (funkcia: člen redakčnej rady)
Tatra Mountains Mathematical Publications (funkcia: člen redakčnej rady)

doc. RNDr. Karol Nemoga, CSc.

Journal of Environmental Protection, Safety, Education and Management (funkcia: člen)
Tatra Mountains Mathematical Publications (funkcia: vedúci redaktor)
Zentralblatt MATH Slovak Unit (funkcia: výkonný redaktor)

Mgr. Branislav Novotný, PhD.

Tatra Mountains Mathematical Publications (funkcia: editor)

doc. PaedDr. Martin Papčo, PhD.

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

doc. RNDr. Miroslav Ploščica, CSc.

Algebra Universalis (funkcia: redaktor)
Mathematica Bohemica (funkcia: redaktor)
Mathematica Slovaca (funkcia: redaktor)

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)

doc. RNDr. Ján Borsík, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Katarína Čunderlíková, PhD.

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

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Humboldtov klub (funkcia: člen)

Jednota slovenských matematikov a fyzikov (funkcia: člen výboru JSMF BA 1)

Učená spoločnosť SAV (funkcia: člen)

doc. RNDr. Roman Frič, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská matematická spoločnosť (funkcia: člen)

doc. RNDr. Ján Haluška, CSc.

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

RNDr. Galina Jirásková, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

RNDr. Martin Kochol, PhD., DSc.

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

prof. RNDr. Július Korbaš, CSc.

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

RNDr. Alžbeta Michalíková, PhD.

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

Mgr. Peter Mlynárčik, PhD.

Jednota slovenských matematikov a fyzikov. (funkcia: člen)

doc. RNDr. Karol Nemoga, CSc.

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

Mgr. Eva Plávalová, PhD.

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

doc. RNDr. Miroslav Repický, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

prof. RNDr. Marian Vajteršic, 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)
P-SAPV (funkcia: člen výboru)

9.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách**10. Činnosť knižnično-informačného pracoviska****10.1. Knižničný fond**

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		26 901
z toho	knihy a zviazané periodiká	26 901
	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		97
v tom	kúpou	1
	darom	6
	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)		69
v tom z r. 1	prezenčné výpožičky	27
	absenčné výpožičky	42
v tom z r. 1	odborná literatúra pre dospelých	66
	výpožičky periodík	3
MVS iným knižniciam		-
MVS z iných knižníc		-
MMVS iným knižniciam		-
MMVS z iných knižníc		-
Počet vypracovaných bibliografií		-
Počet vypracovaných rešerší		40

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	35
Návštevníci knižnice spolu (bez návštevníkov podujatí)	25

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 €	292,90

10.5. Iné informácie o knižničnej činnosti

V roku 2019 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 infraštruktúru a štrukturálne fondy (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

11.5. Členstvo v orgánoch VEGA

prof. RNDr. Michal Fečkan, DrSc.

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

Mgr. Anna Jenčová, DrSc.

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

prof. RNDr. Július Korbaš, CSc.

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

doc. Ing. Gabriel Okša, CSc.

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

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	1 269 437,40	1 179 274,43	90 162,97		92,90
z toho: mzdy (610)	759 036,59	740 656,59	18 380		97,58
vedecká výchova štipendiá (640)	47 823	47 823			100
poistné a príspevok do poisťovní (620)	253 204,56	246 921,61	6282,95		97,52
tovary a služby (630)	195 389,83	133 641,81	61 748,02		68,40
transfery partnerom projektov (640)	6152		6152		
2. Kapitálové výdavky					
z toho: obstarávanie kapitálových aktív	5 989,69	5 989,69			100
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnero m projektov
1. kapitola SAV (111)	1 179 274,43	5 989,69	740 656,59	246 921,61	
z toho: VEGA	61 828				
MVTS výskumné projekty	196 989,69	5 989,69		867,36	
MVTS podpora	5135				
SASPRO/MOREPRO	1 407,60				
Vydávanie časopisov	25 339			501,41	
Vedecká výchova (štipendiá)	47 823				
OTAS (630)	19 942,52				
2. ŠF EÚ vr. fin. zo ŠR					
3. medzinárodné grantové projekty					
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	90 162,97				
z toho: APVV	75 242,81		17 280	5 898,50	6152
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	14 920,16				
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	14 920,16				

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

Od 1.7.2011 sa spojili komisie pre obhajobu doktorských dizertačných prác, takže dnes existujú už len tri stále matematické komisie pre obhajobu DrSc. V r. 2017 bol vymenovaný prof. RNDr. A. Dvurečenskij, DrSc. za predsedu ad hoc komisie pre obhajoby doktorských dizertačných prác v odbore vedy a techniky 010108 Pravdepodobnosť a matematická štatistika a v sept. 2018 prebehla úspešne obhajoba doktorskej dizertačnej práce Mgr. A. Jenčovej, PhD. V roku 2019 neprebehla žiadna obhajoba v tejto komisii. V roku 2020 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.

Vyše 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(2018)=0,490, päťročný impakt faktor 0,488 a je v 4. kvartile v sekcii matematika. V databáze Scopus má časopis SJR=0,279 (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 74 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 0,226 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 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 2019

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Dvurečenskij Anatolij

Zlatú medailu SAV za celoživotné dielo

Oceňovateľ: SAV

Pulmannová Sylvia

Medaila SAV za podporu vedy

Oceňovateľ: SAV

15.1.2. Iné domáce ocenenia

Dvurečenskij Anatolij

Zlatá medaila FMFI UK

Oceňovateľ: FMFI UK

Nemoga Karol

Pamätná medaila k 25. výročiu založenia Vojenského spravodajstva

Oceňovateľ: Minister Obrany SR (rozkazom)

Nemoga Karol

Vecný dar k 25. výročiu založenia Vojenského spravodajstva

Oceňovateľ: Riaditeľ Vojenského spravodajstva

15.2. Medzinárodné ocenenia

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

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

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

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

V zmysle citovaného zákona uverejňuje Matematický ústav SAV tieto informácie:

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

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

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

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

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

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

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

Organizačná štruktúra MÚ SAV:

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

Orgány MÚ SAV:

- Vedecká rada MÚ SAV
- rada riaditeľa MÚ SAV.

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

Financovanie MÚ SAV:

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

Ďalšími zdrojmi financovania pracoviska sú

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

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

MÚ SAV je povinné zverejňovať aj

- označenie nehnuteľnej veci a hnutelnej veci vo vlastníctve štátu, ktorej nadobúdacia cena bola vyššia ako 20-násobok minimálnej mzdy (§2 ods. 1 písm. b) zákona č. 90/1996 Z. z. o

minimálnej mzde), ktorú MÚ SAV previedol do vlastníctva, alebo ktorá prešla do vlastníctva inej osoby než orgánu verejnej moci

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

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

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

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

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

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

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

(3) Informácia môže byť sprístupnená

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

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

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

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

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

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

(7) Žiadosť o sprístupnenie informácie možno podať :

- ústne alebo písomne na adresu:

Matematický ústav SAV Štefánikova 49, 814 73 Bratislava

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

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

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

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

(3) Evidencia obsahuje predovšetkým :

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sadzobník úhrad za sprístupnenie informácií

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

Internet	zadarmo
Rozmnoženie 1 ČB strany	0,03,- EUR (1,- Sk)
Rozmnoženie 1 farebnej strany	0,10,- EUR (3,- Sk)
Na diskete	0,50,- EUR (15,- Sk)
Na CD nosiči	1,33,- EUR (40,- Sk)

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

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

17. Problémy a podnety pre činnosť SAV

V roku 2019 došlo ku rastu celkových výdavkov Matematického ústavu SAV o 12,71 oproti 7,58% a 0,2% v predchádzajúcich rokoch. V rozpočtových výdavkoch došlo ku nárastu o 14,28 % oproti 4,9 % v predchádzajúcom roku. V oblasti miezd sme zaznamenali rast o 18,67 % oproti predchádzajúcemu roku, keď bol nárast 7,26%. Tieto rasty za posledné dva roky mali dve príčiny

- valorizácia miezd o 10 %,
- prvenstvo vo výkonovom financovaní SAV, kde v roku 2019 sme získali viac ako 30 tisíc EUR,
- financovanie jednej pracovníčky THS z KTG 630,
- zvýšené mimorozpočtové prostriedky z APVV.

V tovaroch a službách sme zaznamenali pokles o 8,47 oproti nárastu o 13,7 % v minulom roku, ktorý bol spôsobený financovaním jednej pracovníčky THS z KTG 630 a nižšími prostriedkami v APVV.

V APVV sme zaznamenali pokles o 12,34 %, oproti nárastu 66,7 % v predchádzajúcom roku. V APVV je určitá dynamika spôsobená nabíhaním rôznych projektov. Máme snahu o zvýšenie počtu APVV projektov a podali sme ďalších 5.

V projektoch VEGA sme zaznamenali ďalší pokles o 11,72 % (predtým pokles o 2,2 %), ktorý bol spôsobený ďalším znížením kapacity riešiteľov. V roku 2020 bude počet pracovníkov vyšší o 3 pracovníkov, počet doktorandov je rovnaký.

Z finančného hľadiska bol rok 2019 veľmi úspešný, hlavne v oblasti miezd (+18,67 %). V tovarových výdavkoch sme zaznamenali pokles (KTG 630) a v súčasnosti už personálne výdavky, okrem štipendií, tvoria 79,74 % rozpočtu oproti 76,89 % v minulom roku. Tento pokles je stály a veľmi negatívny.

Prechod ústavov na VVI nebol v roku 2019 aktuálny vzhľadom na legislatívne pravidlá. To znamenalo ušetrenie administratívnej náročnosti našej práce. Práca na troch projektoch s Výskumnou agentúrou znamenala zase razantný nárast.

Vysoko hodnotíme stále trvajúci prístup ku vedeckým informáciám. V roku 2019, po skončení európskeho projektu, už bolo nevyhnutné financovať prístup ku literatúre z rozpočtu SAV.

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

Stále považujeme za potrebné zabezpečiť pre SR úložisko vedeckých informácií. Táto úloha je veľmi vážna a urgentná aj vzhľadom na problematiku otvoreného prístupu ku poznatkom získaných z verejných zdrojov.

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

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

Správu o činnosti organizácie SAV spracoval(i):

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

Mgr. Marek Hyčko, PhD., 02/5751 0502

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

Riaditeľ organizácie SAV

Predseda vedeckej rady

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

.....
Mgr. Anna Jenčová, DrSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2019****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.	100	1.00
3.	doc. RNDr. Ľubica Holá, DrSc.	100	1.00
4.	prof. RNDr. Juraj Hromkovič, DrSc.	100	0.00
5.	RNDr. Stanislav Jakubec, DrSc.	50	0.50
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	1.00
10.	prof. RNDr. Marian Vajteršic, DrSc.	100	0.00
11.	prof. RNDr. Gejza Wimmer, DrSc.	60	0.47
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. Nataliya Dilna, PhD.	100	1.00
3.	RNDr. Stefan Dobrev, PhD.	100	1.00
4.	prof. RNDr. Michal Fečkan, DrSc.	25	0.25
5.	doc. RNDr. Ján Haluška, CSc.	100	1.00
6.	RNDr. Galina Jirásková, CSc.	100	1.00
7.	doc. Mgr. Ján Karabáš, PhD.	11	0.11
8.	prof. RNDr. Július Korbaš, CSc.	3	0.03
9.	doc. RNDr. Karol Nemoga, CSc.	100	1.00
10.	doc. Ing. Gabriel Okša, CSc.	100	1.00
11.	RNDr. Jozef Pócs, PhD.	100	1.00
12.	doc. RNDr. Milan Paštéka, CSc.	3	0.03
13.	RNDr. Michal Pospíšil, PhD.	20	0.20
14.	doc. RNDr. Miroslav Repický, CSc.	100	1.00
15.	Mgr. Andrea Zemánková, PhD.	100	0.07

Zoznam zamestnancov podľa štruktúry (pokračovanie)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
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.	3	0.03
4.	RNDr. Vladimír Dančík, PhD.	100	0.00
5.	RNDr. Peter Eliaš, PhD.	100	1.00
6.	Mgr. Štefan Gyürki, PhD.	5	0.05
7.	doc. RNDr. Rudolf Hajossy, CSc.	32	0.32
8.	RNDr. Emília Halušková, CSc.	100	1.00
9.	Ing. Michal Hospodár, PhD.	100	0.33
10.	Mgr. Marek Hyčko, PhD.	100	1.00
11.	Mgr. Marek Košta, PhD.	100	0.00
12.	Mgr. Tibor Macko, PhD.	25	0.25
13.	RNDr. Alžbeta Michalíková, PhD.	3	0.03
14.	Mgr. Peter Mlynárčik, PhD.	3	0.03
15.	Ing. Igor Mračka, PhD.	100	1.00
16.	Mgr. Branislav Novotný, PhD.	100	1.00
17.	Mgr. Matúš Palmovský, PhD.	3	0.03
18.	doc. PaedDr. Martin Papčo, PhD.	5	0.05
19.	RNDr. Martin Plávala, PhD.	100	0.33
20.	Mgr. Eva Plávalová, PhD.	3	0.03
21.	Mgr. Ladislav Stacho, CSc.	100	0.00
22.	doc. Ondrej Šuch, PhD., M.Sc.	25	0.25
23.	Mgr. Elena Vinceková, PhD.	100	1.00
24.	RNDr. Tibor Žáčik, CSc.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Dušana Babicová	3	0.00
2.	Ing. Ferdinand Čapka	3	0.00
3.	Mgr. Ing. Jean Rosemond Dora	100	0.04
4.	RNDr. Dana Kákošová	100	0.58
5.	Mgr. Ivana Krajňáková	3	0.00

Zoznam zamestnancov podľa štruktúry (pokračovanie)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
6.	Zuzana Kvapilová	100	0.41
7.	Mgr. Ján Kysel	100	1.00
8.	RNDr. Alexandra Mojžišová, PhD.	100	1.00
9.	Ing.arch. Terézia Sedláková	59	0.00
10.	Ing. Peter Sýs	3	0.00
Odborní pracovníci ÚSV			
1.	Jana Galbová	60	0.60
2.	Silvia Gavorová	80	0.80
3.	Ivana Geriaková	100	1.00
4.	Ivana Hudecová	60	0.60
5.	Katarína Nagyová	60	0.60
6.	Eugénia Ondrušková	100	1.00
7.	Bc. Henrieta Paľová	24	0.24
8.	Ing. Daniel Solčiansky	60	0.60
9.	Katarína Štefančíková	100	1.00
Ostatní pracovníci			
1.	Janka Badiarová	33	0.33
2.	Lucia Mišíková	36	0.36
3.	Blažena Puterová	45	0.45
4.	Beata Szabová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	doc. RNDr. Ján Borsík, CSc.	6.9.2019	0.68
2.	doc. RNDr. Miroslav Ploščica, CSc.	31.1.2019	0.02
Vedeckí pracovníci			
1.	doc. RNDr. Ferdinand Chovanec, CSc.	15.12.2019	0.03
2.	doc. RNDr. Mária Jurečková, CSc.	30.9.2019	0.02
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	RNDr. Laura Husárová	30.6.2019	0.20
2.	Mgr. Katarína Pastorková	30.4.2019	0.33
Odborní pracovníci ÚSV			
1.	Andrea Surová	31.5.2019	0.42

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Dušana Babicová	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
2.	Ing. Ferdinand Čapka	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
3.	Mgr. Jean Rosemond Dora	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
4.	Mgr. Ivana Krajňáková	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika
5.	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			
1.	Mgr. Andrea Tinajová	Fakulta matematiky, fyziky a informatiky UK	9.1.9 aplikovaná matematika

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Ing. Michal Hospodár, PhD.	22.8.2019	1.9.2019	100
2.	RNDr. Martin Plávala, PhD.	26.8.2019	1.9.2019	100

Zoznam emeritných vedeckých zamestnancov

Meno s titulmi

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 / 31.12.2021
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

1. ČUNDERLÍKOVÁ, Katarína. Connection between interval-valued observables and intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 1, p. 32-42. ISSN 1310-4926.
2. ČUNDERLÍKOVÁ, Katarína. m-almost everywhere convergence of intuitionistic fuzzy observables induced by Borel measurable function. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 29-40. ISSN 1310-4926.
3. ČUNDERLÍKOVÁ, Katarína. Two theorems from extreme value theory for interval valued events. In Atlantis Studies in Uncertainty Modelling. - Atlantis Press, 2019. ISSN 2589-6644.
4. MICHALÍKOVÁ, Alžbeta. Intuitionistic fuzzy sets and their use in image classification. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 60-66. ISSN 1310-4926.

Programy: ERANET

2.) 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: 19990 €

Dosiahnuté výsledky:

Výskumný tím navštívil v dňoch 16. - 27. júla 2019 projektových partnerov so sídlom v Biodonostia HRI v San Sebastián. V úzkej spolupráci so španielskymi partnermi vyvinul výskumný tím novú metódu integrácie transkripčných dát buniek pokožky založenú na transformácii inšpirovanej fuzzy logikou. Bolo napísaných množstvo dátovo analytických Pythónovských skriptov ako aj interný report s podrobnou metodikou, a tieto boli zdieľané s projektovými partnermi. Výskumný tím publikoval niektoré zo svojich výsledkov na vedeckých konferenciách [1,2].

[1] P. Bokes, B. Novotný et al., Analysing skin cell gene expression data (2019), 51. konferencia Slovenských matematikov (KSM), Jasná pod Chopkom, p. 21.

[2] P. Bokes, A. Singh, Noise induced bimodality in genetic circuits with monostable positive feedback (2019), 18th European Control Conference (ECC), Neapol, Taliansko, 698-703

Domáce projekty

Programy: VEGA

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

Zodpovedný riešiteľ:	Stefan Dobrev
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	VEGA 2/0165/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VEGA SAV: 4361 €

Dosiahnuté výsledky:

1. S. Dobrev, L. Narayanan, J. Opatrny, D. Pankratov, Exploration of high-dimensional grids by finite automata, ICALP 2019, Art. No. 139, pp. 139:1-139:16.
<https://doi.org/10.4230/LIPIcs.ICALP.2019.139>

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

Zodpovedný riešiteľ:	Michal Fečkan
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0153/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 8287 €

Dosiahnuté výsledky:

1. DANCA, Marius-F. - FEČKAN, Michal. Hidden chaotic attractors and chaos suppression in an impulsive discrete economical supply and demand dynamical system. In Communications in nonlinear science and numerical simulation, 2019, vol. 74, p. 1-13. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704. Dostupné na internete: <<https://www.sciencedirect.com/science/article/pii/S1007570419300760>>.
2. DILNA, Nataliya - FEČKAN, Michal - SOLOVYOV, Mykola - WANG, JinRong. Symmetric nonlinear functional differential equations at resonance. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.
3. FEČKAN, Michal - MARYNETS, Kateryna - WANG, JinRong. Periodic boundary value problems for higher-order fractinal differential systems. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3616-3632. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.
4. FEČKAN, Michal - WANG, JinRong. Periodic impulsive fractional differential equations. In Advances in Nonlinear Analysis, 2019, vol. 8, no. 1, p. 482-496. (2018: 6.636 - IF, Q1 - JCR, 3.215 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2191-9496.
5. FEČKAN, Michal - POSPÍŠIL, Michal - WANG, JinRong. Note on weakly fractional differential equations. In Advances in Difference Equations, 2019, vol. 143, p. [1-11]. (2018: 1.510 - IF, Q1 - JCR, 0.525 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1687-1839. Dostupné na internete: <<https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-019-2086-4>>.
6. FRANCA, M. - POSPÍŠIL, Michal. New global bifurcation diagrams for piecewise smooth systems: Transversality of homoclinic points does not imply chaos. In Journal of Differential Equations, 2019, vol. 266, no. 2-3, p. 1429-1461. (2018: 1.938 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0396.
7. LIU, Kui - FEČKAN, Michal - O'REGAN, D. - WANG, JinRong. Hyers-Ulam stability and existence of solutions for differential equations with Caputo-Fabrizio fractional derivative. In Mathematics, 2019, vol. 7, no. 4, art. no. 333. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390. Dostupné na internete: <<https://www.mdpi.com/2227-7390/7/4/333>>.
8. LUO, Dahui - WANG, JinRong - SHEN, Dong - FEČKAN, Michal. Iterative learning control for fractional-order multi-agent systems. In Journal of The Franklin Institute, 2019, vol. 356, p. 6328-6351. (2018: 3.653 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0016-0032.
9. MEDVEĎ, Milan - POSPÍŠIL, Michal. On the existence and exponential stability for differential equations with multiple constant delays and nonlinearity depending on fractional substantial integrals. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 43, p. 1-17. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.

10. REN, Lulu - WANG, JinRong - FEČKAN, Michal. Asymptotically periodic solutions for Caputo type fractional evolution equations. In *Fractional Calculus and Applied Analysis*, 2018, vol. 21, no. 5, p. 1294-1312. (2017: 2.865 - IF, Q1 - JCR, 1.967 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1311-0454.
11. WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In *Journal of Optimization Theory and Applications*, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239.
12. WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In *Journal of Optimization Theory and Applications*, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239.
13. WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal - ZHOU, Yong. Controllability of fractional non-instantaneous impulsive differential inclusions without compactness. In *IMA Journal of Mathematical Control and Information*, 2019, vol. 36, no. 2, p. 443-460. (2018: 1.000 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0265-0754.
14. YANG, Peng - WANG, JinRong - FEČKAN, Michal. Periodic nonautonomous differential equations with noninstantaneous impulsive effects. In *Mathematical Methods in the Applied Sciences*, 2019, vol. 42, p. 3700-3720. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.
15. YANG, Peng - WANG, JinRong - O'REGAN, D. - FEČKAN, Michal. Inertial manifold for semi-linear non-instantaneous impulsive parabolic equations in an admissible space. In *Communications in Nonlinear Science and Numerical Simulation*, 2019, vol. 75, p. 174-191. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704.
16. YOU, Zhongli - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Representation of solutions and finite time stability for delay differential systems with impulsive effects. In *International Journal of Nonlinear Sciences and Numerical Simulation*, 2019, vol. 20, no. 2, p. 205-221. (2018: 1.033 - IF, Q3 - JCR, 0.288 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1565-1339.
17. DILNA, Nataliya - FEČKAN, Michal - RONTÓ, András. On a class of functional differential equations with symmetries. In *SYMMETRY-BASEL*, 2019, vol. 11, issue 12, p. (2018: 2.143 - IF, Q2 - JCR, 0.287 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2073-8994.
18. FEČKAN, Michal - PAČUTA, Július - POSPÍŠIL, Michal - VIDLIČKA, Pavol. Averaging methods for piecewise-smooth ordinary differential equations. In *AIMS Mathematics*, 2019, vol. 4, no. 5, p. 1466-1487. (2019 - Current Contents). ISSN 2473-6988.
19. DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. Chaos control in the fractional order logistic map via impulses. In *Nonlinear Dynamics*, 2019, vol. 98, no. 2, p. 1219-1230. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X.

20. WANG, JinRong - FEČKAN, Michal. Periodic solutions and stability of linear evolution equations with noninstantaneous impulses. In Miskolc Mathematical Notes, 2019, vol. 20, no. 2, p. 1299-1313. (2018: 0.468 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR). ISSN 1787-2405.
21. DANCA, Marius-F. - FEČKAN, Michal - POSPÍŠIL, Michal. Difference equations with impulses. In Opuscula Mathematica, 2019, vol. 39, no. 1, p. 5-22. (2018: 0.685 - SJR, Q2 - SJR). ISSN 1232-9274.
22. FEČKAN, Michal - HRISTOVA, Snezhana - IVANOVA, Krasimira. Practical stability of differential equations with state dependent delay and non-instantaneous impulses. In Communications in Mathematical Analysis, 2019, vol. 22, no. 2, p. 1-17. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.
23. POSPÍŠIL, Michal. Laplace transform, gronwall inequality and delay differential equations for general conformable fractional derivative. In Communications in Mathematical Analysis, 2019, vol. 22, no. 1, p. 14-33. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.
24. FEČKAN, Michal - PAČUTA, J. Data approximation using Lotka-Volterra models and a software minimization function. In Journal of Applied Mathematics, Statistics and Informatics, 2019, vol. 15, no. 2, p. 5-14. ISSN 1339-0015.
25. MING, Hao - WANG, JinRong - FEČKAN, Michal. The application of fractional calculus in chinese economic growth models. In Mathematics, 2019, vol. 7, no. 8. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390.
26. MRAČKA, Igor - ŽÁČIK, Tibor - HYČKO, Marek - HAJOSSY, Rudolf - SOMORA, Peter. Optimization of gas transport - evolutionary calculations on a small cluster of computers. In PSIG 2019, Pipeline Simulation Interest Group Annual Meeting, 12-15 May, London, UK. - London : Pipeline Simulation Interest Group, 2019.

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

Zodpovedný riešiteľ:	Ľubica Holá
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	VEGA 2/0006/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Matematický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VEGA SAV: 4361 €

Dosiahnuté výsledky:

1. Ľ. Holá, D. Holý, Compactness in function spaces, *Topology and its Applications* 262 (2019), 20-29
2. Ľ. Holá, B. Novotný, *Set-Valued and Variational Analysis* (2019)
3. Ľ. Holá, A. K. Mirmostafae, Norm continuity of quasicontinuous mappings into $C_p(Y)$, *Colloquium Mathematicum* 154 (2018), 97-105
4. A. Caterino, R. Ceppitelli, Ľ. Holá, On the jointly continuous multi-utility representation problem, *Topology and its Applications* 268 (2019), 106919

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

Zodpovedný riešiteľ: Stanislav Jakubec
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: VEGA 2/0109/18
Organizácia je áno
koordinátorom projektu:
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA SAV: 7873 €

Dosiahnuté výsledky:

1. STRAUCH, Oto. Distribution of sequences: A theory. Bratislava : Veda ; Praha : Academia, 2019. 591 p. ISBN 978-80-224-1734-1 (Veda). ISBN 978-80-200-3010-8 (Academia).
2. OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers II. In *Uniform Distribution Theory*, 2019, vol. 14, no. 1, p. 19-42. ISSN 1336-913X.

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

Zodpovedný riešiteľ: Anna Jenčová
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: VEGA 2/0069/16
Organizácia je áno
koordinátorom projektu:
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA SAV : 13112 €

Dosiahnuté výsledky:

1. A. Dvurečenskij, O. Zahiri, On EMV-algebras, *Fuzzy Sets and Systems* 373 (2019), 116--148. <https://doi.org/10.1016/j.fss.2019.02.013>
2. A. Dvurečenskij, O. Zahiri, The Loomis--Sikorski theorem for EMV-algebras, *J. Austral. Math. Soc.* 106 (2019), 200--234. DOI:10.1017/S1446788718000101
3. A. Dvurečenskij, O. Zahiri, Generalized pseudo-EMV-effect algebras, *Soft Computing* 23 (2019), 9807--9819. <https://doi.org/10.1007/s00500-019-03880-0>

4. A. Di Nola, A. Dvurečenskij, G. Lenzi, Observables on perfect MV-algebras, *Fuzzy Sets and Systems* 369 (2019), 57--81. <https://doi.org/10.1016/j.fss.2018.11.018>
5. A. Dvurečenskij, Perfect effect algebras and spectral resolutions of observables, *Found. Phys.* 49 (2019), 607--628. DOI:10.1007/s10701-019-00238-2
6. A. Dvurečenskij, O. Zahiri, EMV-pairs, *Inter. J. General Systems* 48 (2019), 382--405 <https://doi.org/10.1080/03081079.2019.1584893>
7. A. Dvurečenskij, Observables on lexicographic MV-algebras, *Inter. J. General Systems* 48 (2019), 738--774. <https://doi.org/10.1080/03081079.2019.1643338>
8. A. Dvurečenskij, O. Zahiri, States on EMV-algebras, *Soft Computing* 23 (2019), 7513--7536. DOI: 10.1007/s00500-018-03738-x
9. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. I. Basic properties, *J. Appl. Logic* 6 (2019), 1285--1327.
10. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. II. Representation and states, *J. Appl. Logic* 6 (2019), 1329--1372.
11. A. Dvurečenskij, D. Lachman, Observables on lexicographic effect algebras, *Algebra Universalis* 80 (2019), Art. 49 DOI: 10.1007/s00012-019-0628-y
12. T. Heinosaari, L. Leppäjärvi, M. Plávala, No-free-information principle in general probabilistic theories, *Quantum*, vol. 3, p. 157 (2019)
13. A. Jenčová, M. Plávala, On the properties of spectral effect algebras, *Quantum*, vol. 3, p. 148 (2019)
14. D. J. Foulis, S. Pulmannová, Spectral order on a synaptic algebra, *Order* 36 (2019) 1-17
15. S. Pulmannová, Synaptic algebras as models for quantum mechanics, *Int. J. Theo. Phys.*, <https://doi.org/10.107/s1073-019-0405-3>
16. S. Pulmannová, Congruences and ideals in generalized pseudoeffect algebras revisited, *Soft Comput.* 23 (2019) 735-745
17. R. Carbone, A. Jenčová, On period, cycles and fixed points of a quantum channel. *Ann. Henri Poincaré* (2019) doi:10.1007/s00023-019-00861-9

6.) 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: 2/0132/19
Organizácia je áno
koordinátorom projektu:
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 8780 €

Dosiahnuté výsledky:

1. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In *RAIRO : Theoretical Informatics and Applications*, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754.
2. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity in subclasses of convex languages. In *Theoretical Computer Science*, 2019, vol. 787, p. 89-110. (2018: 0.718 - IF, Q4 - JCR, 0.494 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0304-3975.
3. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Descriptive complexity of the forever operator. In *International Journal of Foundations of Computer Science*, 2019, vol. 30, no. 1, p. 115-134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
4. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Square on deterministic, alternating, and boolean finite automata. In *International Journal of Foundations of Computer Science*, 2019, vol. 30, no. 06-07, p. 1117-1134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
5. JIRÁSKOVÁ, Galina - KLÍMA, Ondřej. Deterministic biautomata and subclasses of deterministic linear languages. In *Lecture Notes in Computer Science : Language and Automata Theory and Applications*, 2019, vol. 11417, p. 315-327. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
6. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. NFA-to-DFA trade-off for regular operations. In *Lecture Notes in Computer Science : Descriptive complexity of formal systems*, 2019, vol. 11612, p. 184-196. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
7. DAVIES, Sylvie - HOSPODÁR, Michal. Square, power, positive closure, and complementation on star-free languages. In *Lecture Notes in Computer Science*, 2019, vol. 11612, p. 98-110. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

8. HOLZER, Markus - HOSPODÁR, Michal. The range of state complexities of languages resulting from the cut operation. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

9. HOSPODÁR, Michal. Descriptive complexity of power and positive closure on convex languages. In Lecture Notes in Computer Science, 2019, vol. 11601, p. 158-170. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

7.) 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: 1308 €

Dosiahnuté výsledky:

1. KOCHOL, M.: Equivalent versions of group-connectivity theorems and conjectures, Discrete Applied Mathematics, vol. 257 (2019), str. 350–352, (ADCA).

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

Zodpovedný riešiteľ: Tibor Macko
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: VEGA 1/0101/17
Organizácia je koordinátorom projektu: nie
Koordinátor: FMFI UK, Bratislava
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 514 €

Dosiahnuté výsledky:

Boli dotiahnuté detaily v štúdiu štruktúrnej množiny $S(L \times D)$ súčinu $L \times D$ šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium ρ -invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny $S(L \times S)$ súčinu $L \times S$ šošovkového priestoru L a sféry S v prípadoch, keď fundamentálna grupa L má rád mocninu 2.

Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny $S(L \times D)$ aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.

Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórii chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranického formulácii tejto teórie pri vhodných voľbách.

Publikácie:

1. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš : \emph{Higher simple structure sets of lens spaces with the fundamental group of order 2^K }, In: Topology and its Applications. - Vol. 263 (2019), s. 299-320. - ISSN (print) 0166-8641
2. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš: \emph{Higher simple structure sets of lens spaces with the fundamental group of arbitrary order}, In: Archivum Mathematicum, Vol. 55 (2019), No. 5, pp. 267–280, ISSN 1212-5059.

Preprint:

3. 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>

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

Zodpovedný riešiteľ:	Roman Nedela
Trvanie projektu:	1.1.2017 / 31.12.2019
Evidenčné číslo projektu:	1/0487/17
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta prírodných vied UMB Banská Bystrica
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 920 €

Dosiahnuté výsledky:

1. HU, Kan - NEDELA, Roman - WANG, Naer. Complete regular dessins of odd prime power order. In Discrete Mathematics, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X.

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

Zodpovedný riešiteľ: Gabriel Okša
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: VEGA 2/0004/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 5931 €

Dosiahnuté výsledky:

1. OKŠA, Gabriel - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the two-sided serial and parallel block-jacobi svd algorithm. In Siam Journal on Matrix Analysis and Applications, 2019, vol. 40, no. 2, p. 639-671. (2018: 1.912 - IF, Q1 - JCR, 1.248 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1095-7162.

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

Zodpovedný riešiteľ: Miroslav Repický
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: VEGA 1/0097/16
Organizácia je koordinátorom projektu: nie
Koordinátor: PF UPJŠ Košice
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA: 4058 €

Dosiahnuté výsledky:

Boli charakterizované systémy spojitých reálnych funkcií zodpovedajúce určitým zväzom uzavretých podmnožín reálnej priamky v Galoisovej konexii určenej rozširovaním definičného oboru spojitých reálnych funkcií [1].

1. P. Eliaš, A Galois connection related to restrictions of continuous real functions, Topol. Appl. 265 (2019), 106814.

12.) 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: 0
Čerpané financie: -

Dosiahnuté výsledky:

1. J. Haluška, M. Jastrzebska, A three dimensional modification of the gaussian number field. In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 63-76.

13.) Viacriedna 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: 436 €

Dosiahnuté výsledky:

1. ŠUCH, Ondrej - KLIMO, Martin - KEMP, N.T. - ŠKVAREK, Ondrej. Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259. (2017: 2.115 - IF, Q2 - JCR, 0.420 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1434-8411.

2. ŠUCH, Ondrej - KONTŠEK, Martin - TINAJOVÁ, Andrea. Neural pairwise classification models created by ignoring irrelevant alternatives. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 66-70. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).

3. ŠUCH, Ondrej - BARREDA, Santiago - MOJSEJ, Anton. A comparison of formant and CNN models for vowel frame recognition. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 139-144. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).

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

Zodpovedný riešiteľ: Gejza Wimmer
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: 2/0054/18
Organizácia je áno
koordinátorom projektu:
Koordinátor: Matematický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 873 €

Dosiahnuté výsledky:

1. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In Izmeriteľná technika, 2019, no. 4, p. 14-18. ISSN 0368-1025.
2. ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. ISBN 978-80-972629-2-1.
3. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In Measurement Techniques, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.
4. WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In Izmeriteľná technika, 2019, no. 4, p. 19-25. ISSN 0368-1025.
5. WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In Measurement Techniques, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.
6. WIMMER, Gejza - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. ISBN 978-80-972629-2-1
7. WIMMER, Gejza - WITKOVSKÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46.
8. WITKOVSKÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47.

15.) 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: 0
Čerpané financie: VEGA: 1014 €

Dosiahnuté výsledky:

Programy: APVV

16.) 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: 0
Čerpané financie: APVV: 29407 €

Dosiahnuté výsledky:

1. A. Dvurečenskij, O. Zahiri, On EMV-algebras, Fuzzy Sets and Systems 373 (2019), 116-148.
<https://doi.org/10.1016/j.fss.2019.02.013>
2. A. Dvurečenskij, O. Zahiri, The Loomis--Sikorski theorem for EMV-algebras, J. Austral. Math. Soc. 106 (2019), 200-234.
<https://doi.org/10.1017/S1446788718000101>
3. A. Dvurečenskij, O. Zahiri, Generalized pseudo-EMV-effect algebras, Soft Computing 23 (2019), 9807-9819.
<https://doi.org/10.1007/s00500-019-03880-0>
4. A. Di Nola, A. Dvurečenskij, G. Lenzi, Observables on perfect MV-algebras, Fuzzy Sets and Systems 369 (2019), 57-81.
<https://doi.org/10.1016/j.fss.2018.11.018>
5. A. Dvurečenskij, Perfect effect algebras and spectral resolutions of observables, Found. Phys. 49 (2019), 607-628.
<https://doi.org/10.1007/s10701-019-00238-2>

6. A. Dvurečenskij, O. Zahiri, EMV-pairs, *Inter. J. General Systems* 48 (2019), 382-405.
<https://doi.org/10.1080/03081079.2019.1584893>
7. A. Dvurečenskij, Observables on lexicographic MV-algebras, *Inter. J. General Systems* 48 (2019), 738-774.
<https://doi.org/10.1080/03081079.2019.1643338>
8. A. Dvurečenskij, O. Zahiri, States on EMV-algebras, *Soft Computing* 23 (2019), 7513-7536.
<https://doi.org/10.1007/s00500-018-03738-x>
9. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. I. Basic properties, *J. Appl. Logic* 6 (2019), 1285-1327.
10. A. Dvurečenskij, O. Zahiri, Pseudo EMV-algebras. II. Representation and states, *J. Appl. Logic* 6 (2019), 1329-1372.
11. A. Dvurečenskij, D. Lachman, Observables on lexicographic effect algebras, *Algebra Universalis* 80 (2019), Art. 49.
<https://doi.org/10.1007/s00012-019-0628-y>
12. R. Halaš, R. Mesiar, J. Pócs: On generating sets of the clone of aggregation functions on finite lattices, *Information Sciences* 476 (2019) pp. 38-47.
13. R. Halaš, R. Mesiar, J. Pócs: On generation of aggregation functions on infinite lattices, *Soft Computing* 23 (2019), 7279-7286.
14. G. Jenča: Two monads on the category of graphs, *Math. Slovaca*, 69 (2019) 257-266.
<https://doi.org/10.1515/ms-2017-0220>.
15. A. Jenčová, M. Plávala, On the properties of spectral effect algebras, *Quantum*, 3 (2019), 148.
16. T. Heinosaari, L. Leppäjärvi, M. Plávala, No-free-information principle in general probabilistic theories, *Quantum* 3, (2019), 157.
<https://doi.org/10.22331/q-2019-07-08-157>
17. D. J. Foulis, S. Pulmannová, Spectral order on a synaptic algebra, *Order* 36 (2019), 1-17.
18. S. Pulmannová, Congruences and ideals in generalized pseudoeffect algebras revisited, *Soft Comput.* 23 (2019) 735-745.
19. D. Babicová, R. Frič, Real functions in stochastic dependence, *Tatra Mountains Mathematical Publications*. Vol. 74, no. 2 (2019), p. 17-34. DOI: 10.2478/tmmp-2019-0016.
20. Frič, R., Product of measurable spaces and applications, *Tatra Mountains Mathematical Publications*. Vol. 74, no. 2 (2019), p. 47-56. DOI: 10.2478/tmmp-2019-0018.

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

Zodpovedný riešiteľ: Galina Jirásková
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0091
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta, Univerzita Pavla Jozefa Šafárika v Košiciach
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 13782 €

Dosiahnuté výsledky:

1. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In *RAIRO : Theoretical Informatics and Applications*, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754.
2. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity in subclasses of convex languages. In *Theoretical Computer Science*, 2019, vol. 787, p. 89-110. (2018: 0.718 - IF, Q4 - JCR, 0.494 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0304-3975.
3. HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Descriptive complexity of the forever operator. In *International Journal of Foundations of Computer Science*, 2019, vol. 30, no. 1, p. 115-134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
4. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Square on deterministic, alternating, and boolean finite automata. In *International Journal of Foundations of Computer Science*, 2019, vol. 30, no. 06-07, p. 1117-1134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
5. JIRÁSKOVÁ, Galina - KLÍMA, Ondřej. Deterministic biautomata and subclasses of deterministic linear languages. In *Lecture Notes in Computer Science : Language and Automata Theory and Applications*, 2019, vol. 11417, p. 315-327. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
6. JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. NFA-to-DFA trade-off for regular operations. In *Lecture Notes in Computer Science : Descriptive complexity of formal systems*, 2019, vol. 11612, p. 184-196. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
7. DAVIES, Sylvie - HOSPODÁR, Michal. Square, power, positive closure, and complementation on star-free languages. In *Lecture Notes in Computer Science*, 2019, vol. 11612, p. 98-110. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
8. HOLZER, Markus - HOSPODÁR, Michal. The range of state complexities of languages resulting from the cut operation. In *Lecture Notes in Computer Science : Language and Automata Theory and Applications*, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
9. HOSPODÁR, Michal. Descriptive complexity of power and positive closure on convex languages. In *Lecture Notes in Computer Science*, 2019, vol. 11601, p. 158-170. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

18.) 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:

Boli dotiahnuté detaily v štúdiu štruktúrnej množiny $S(L \times D)$ súčinu $L \times D$ šošovkového priestoru L a disku D v prípadoch, keď fundamentálna grupa L má rád mocninu 2. Hlavným nástrojom bolo štúdium ρ -invariantu v danej situácii, pričom sme aj nadviazali na predchádzajúce práce. Dôsledkom týchto výpočtov je aj výpočet štruktúrnej množiny $S(L \times S)$ súčinu $L \times S$ šošovkového priestoru L a sféry v prípadoch, keď fundamentálna grupa L má rád mocninu 2.

Na predchádzajúcu prácu sme nadviazali štúdiom štruktúrnej množiny $S(L \times D)$ aj v prípade, že rád fundamentálnej grupy L je ľubovoľný. Metódou lokalizácie sa nám podarilo tento prípad zredukovať na prípady, keď je rád mocnina 2 a keď je nepárny. Použili sme známe vlastné výsledky a výsledky iných matematikov v týchto prípadoch na to, aby sme ich pomocou lokalizácie skombinovali a dostali tak výsledok vo všeobecnom prípade.

Pokračovali sme v hľadaní všeobecnej formulácie algebraickej teórie chirurgií pomocou univerzálnych konštrukcií pre našu pripravovanú monografiu o teórii chirurgií. Podarilo sa nám dosiahnuť žiadaný cieľ, pričom sme identifikovali nami definované univerzálne konštrukcie s konkrétnymi vzorcami v Ranickeho formulácii tejto teórie pri vhodných voľbách.

Publikácie:

1. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš : \emph{Higher simple structure sets of lens spaces with the fundamental group of order 2^K }, In: Topology and its Applications. - Vol. 263 (2019), s. 299-320. - ISSN (print) 0166-8641
2. ADM Balko, Ľudovít and Macko, Tibor and Niepel, Martin and Rusin, Tomáš: \emph{Higher simple structure sets of lens spaces with the fundamental group of arbitrary order}, In: Archivum Mathematicum, Vol. 55 (2019), No. 5, pp. 267–280, ISSN 1212-5059.

Preprint:

3. 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>

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

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

Dosiahnuté výsledky:

1. HU, Kan - NEDELA, Roman - WANG, Naer. Complete regular dessins of odd prime power order. In Discrete Mathematics, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X.
2. HU, Kan - NEDELA, Roman - WANG, Naer - YUAN, K. Reciprocal skew morphisms of cyclic groups. In Acta Mathematica Universitatis Comenianae, 2019, vol. 88, no. 2, p. 305-318. (2018: 0.247 - SJR, Q3 - SJR). ISSN 0862-9544.

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: 0
Čerpané financie: APVV: 1820 €

Dosiahnuté výsledky:

21.) Pokročilé štatistické a výpočtové metódy pre meranie a metrologiu (*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: 0
Čerpané financie: APVV: 7500 €

Dosiahnuté výsledky:

1. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In *Izmeriteľná technika*, 2019, no. 4, p. 14-18. ISSN 0368-1025.
2. ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. ISBN 978-80-972629-2-1.
3. ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In *Measurement Techniques*, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.
4. WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In *Izmeriteľná technika*, 2019, no. 4, p. 19-25. ISSN 0368-1025.
5. WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In *Measurement Techniques*, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.
6. WIMMER, Gejza - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. ISBN 978-80-972629-2-1
7. WIMMER, Gejza - WITKOVSKÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In *MathMet 2019 : Book of Abstracts*. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46.
8. WITKOVSKÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In *MathMet 2019 : Book of Abstracts*. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47.

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:

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:

1. MRAČKA, Igor - ŽÁČIK, Tibor - HYČKO, Marek - HAJOSSY, Rudolf - SOMORA, Peter. Optimization of gas transport - evolutionary calculations on a small cluster of computers. In PSIG 2019, Pipeline Simulation Interest Group Annual Meeting, 12-15 May, London, UK. - London : Pipeline Simulation Interest Group, 2019.

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 STRAUCH, Oto. Distribution of sequences: A theory. Bratislava : Veda ; Praha : Academia, 2019. 591 p. ISBN 978-80-224-1734-1
(Vega č. 2/0109/18 : Teória čísel a jej aplikácie).

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 FEČKAN, Michal. Note on periodic and asymptotically periodic solutions of fractional differential equations. In Mathematics Applied to Engineering, Modelling, and Social Issues : studies in Systems, Decision and Control. 200. - Cham : Springer, 2019, p. 153-185. ISBN 978-3-030-12231-7. ISSN 2198-4182.
- ABC02 FEČKAN, Michal. A survey on the Melnikov theory for implicit ordinary differential equations with applications to RLC circuits. In Mathematics Applied to Engineering, Modelling, and Social Issues : Studies in Systems, Decision and Control. 200. - Cham : Springer, 2019, p. 121-160. ISBN 978-3-030-12231-7. ISSN 2198-4182.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 DANCA, Marius-F. - FEČKAN, Michal. Hidden chaotic attractors and chaos suppression in an impulsive discrete economical supply and demand dynamical system. In Communications in nonlinear science and numerical simulation, 2019, vol. 74, p. 1-13. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704. Dostupné na internete: <<https://www.sciencedirect.com/science/article/pii/S1007570419300760>>.
- ADCA02 DILNA, Nataliya - FEČKAN, Michal - SOLOVYOV, Mykola - WANG, JinRong. Symmetric nonlinear functional differential equations at resonance. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 76, p. 1-16. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.
- ADCA03 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - LENZI, Giacomo. Observables on perfect MV-algebras. In Fuzzy Sets and Systems, 2019, vol. 369, p. 57-81. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114.
- ADCA04 DVUREČENSKIJ, Anatolij. Perfect effect algebras and spectral resolutions of observables. In Foundations of Physics, 2019, vol. 49, no. 6, p. 607-628. (2018: 1.344 - IF, Q3 - JCR, 0.381 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0015-9018.
- ADCA05 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. States on EMV-algebras. In Soft Computing, 2019, vol. 23, no. 17, p. 7513-7536. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643.
- ADCA06 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. On EMV-algebras. In Fuzzy Sets and Systems, 2019, vol. 373, p. 116-148. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114.
- ADCA07 DVUREČENSKIJ, Anatolij. Observables on lexicographic MV-algebras. In International Journal of General Systems, 2019, vol. 48, no. 7, p. 738-774. (2018: 2.259 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0308-1079.

- ADCA08 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Generalized pseudo-EMV-effect algebras. In *Soft Computing*, 2019, vol. 23, no. 20, p. 9807-9819. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643.
- ADCA09 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. The Loomis-Sikorski theorem for EMV-algebras. In *Journal of the Australian Mathematical Society*, 2019, vol. 106, no. 2, p. 200-234. (2018: 0.602 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1446-7887.
- ADCA10 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. EMV-pairs. In *International Journal of General Systems*, 2019, vol. 48, no. 4, p. 382-405. (2018: 2.259 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0308-1079. Dostupné na internete: <https://www.tandfonline.com/doi/pdf/10.1080/03081079.2019.1584893?needAccess=true>.
- ADCA11 DVUREČENSKIJ, Anatolij - LACHMAN, Dominik. Observables on lexicographic effect algebras. In *Algebra Universalis*, 2019, vol. 80, no. 4, p. 1-22. (2018: 0.667 - IF, Q3 - JCR, 0.436 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0002-5240.
- ADCA12 FEČKAN, Michal - MARYNETS, Kateryna - WANG, JinRong. Periodic boundary value problems for higher-order fractional differential systems. In *Mathematical Methods in the Applied Sciences*, 2019, vol. 42, p. 3616-3632. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.
- ADCA13 FEČKAN, Michal - WANG, JinRong. Periodic impulsive fractional differential equations. In *Advances in Nonlinear Analysis*, 2019, vol. 8, no. 1, p. 482-496. (2018: 6.636 - IF, Q1 - JCR, 3.215 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2191-9496.
- ADCA14 FEČKAN, Michal - POSPÍŠIL, Michal - WANG, JinRong. Note on weakly fractional differential equations. In *Advances in Difference Equations*, 2019, vol. 143, p. [1-11]. (2018: 1.510 - IF, Q1 - JCR, 0.525 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1687-1839. Dostupné na internete: <https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-019-2086-4>.
- ADCA15 FRANCA, M. - POSPÍŠIL, Michal. New global bifurcation diagrams for piecewise smooth systems: Transversality of homoclinic points does not imply chaos. In *Journal of Differential Equations*, 2019, vol. 266, no. 2-3, p. 1429-1461. (2018: 1.938 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0396. Dostupné na internete: <https://www.sciencedirect.com/journal/journal-of-differential-equations/vol/266/issue/2>.
- ADCA16 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef - TORRA, Vincenç. A note on some algebraic properties of discrete Sugeno integrals. In *Fuzzy Sets and Systems*, 2019, vol. 355, p. 110-120. (2018: 2.907 - IF, Q1 - JCR, 1.347 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0165-0114.
- ADCA17 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. On generating sets of the clone of aggregation functions on finite lattices. In *Information Sciences*, 2019, vol. 476, p. 38-47. (2018: 5.524 - IF, Q1 - JCR, 1.620 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0020-0255.
- ADCA18 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. On generation of aggregation functions on infinite lattices. In *Soft Computing*, 2019, vol. 23, p. 7279-7286. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643.

- ADCA19 HOLÁ, Ľubica - MIRMOSTAFEE, Alireza Kamel. Norm continuity of quasicontinuous mappings into $C_p(Y)$. In Colloquium Mathematicum, 2018, vol. 154, no. 1, p. 97-105. (2017: 0.420 - IF, Q4 - JCR, 0.402 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0010-1354.
- ADCA20 HOSPODÁR, Michal - JIRÁSKOVÁ, Galina. The complexity of concatenation on deterministic and alternating finite automata. In RAIRO : Theoretical Informatics and Applications, 2018, vol. 52, no. 2-4, p. 153-168. (2017: 0.350 - IF, Q4 - JCR, 0.375 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0988-3754.
- ADCA21 HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Nondeterministic complexity in subclasses of convex languages. In Theoretical Computer Science, 2019, vol. 787, p. 89-110. (2018: 0.718 - IF, Q4 - JCR, 0.494 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0304-3975.
- ADCA22 HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - MLYNÁRČIK, Peter. Descriptive complexity of the forever operator. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 1, p. 115-134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
- ADCA23 JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Square on deterministic, alternating, and boolean finite automata. In International Journal of Foundations of Computer Science, 2019, vol. 30, no. 06-07, p. 1117-1134. (2018: 0.540 - IF, Q4 - JCR, 0.320 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0129-0541.
- ADCA24 KOCHOL, Martin. Equivalent versions of group-connectivity theorems and conjectures. In Discrete Applied Mathematics, 2019, vol. 257, p. 350-352. (2018: 0.983 - IF, Q3 - JCR, 0.815 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0166-218X.
- ADCA25 LIU, Kui - FEČKAN, Michal - O'REGAN, D. - WANG, JinRong. Hyers-Ulam stability and existence of solutions for differential equations with Caputo-Fabrizio fractional derivative. In Mathematics, 2019, vol. 7, no. 4, art. no. 333. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390. Dostupné na internete: <<https://www.mdpi.com/2227-7390/7/4/333>>.
- ADCA26 LÓPEZ POUSO, Rodrigo - MÁRQUEZ ALBÉS, Ignacio - MONTEIRO, Giselle Antunes. Extremal solutions of systems of measure differential equations and applications in the study of Stieltjes differential problems. In Electronic Journal of Qualitative Theory of Differential Equations, 2018, no. 38, p. 1-24. (2017: 0.881 - IF, Q2 - JCR, 0.492 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1417-3875.
- ADCA27 LUO, Dahui - WANG, JinRong - SHEN, Dong - FEČKAN, Michal. Iterative learning control for fractional-order multi-agent systems. In Journal of The Franklin Institute, 2019, vol. 356, p. 6328-6351. (2018: 3.653 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0016-0032.
- ADCA28 MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy of dynamical systems in product MV-algebras and general scheme. In Advances in Difference Equations, 2019, vol. 1, no. 9, p. 1-17. (2018: 1.510 - IF, Q1 - JCR, 0.525 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1687-1839.
- ADCA29 MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. K-L Divergence, entropy and mutual information of experiments in the intuitionistic fuzzy case. In Journal of Intelligent and Fuzzy Systems, 2019, vol. 36, no. 4, p. 3857-3867. (2018: 1.637 - IF, Q3 - JCR, 0.412 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1064-1246.

- ADCA30 MEDVEĎ, Milan - POSPÍŠIL, Michal. On the existence and exponential stability for differential equations with multiple constant delays and nonlinearity depending on fractional substantial integrals. In Electronic Journal of Qualitative Theory of Differential Equations, 2019, no. 43, p. 1-17. (2018: 1.065 - IF, Q1 - JCR, 0.482 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1417-3875.
- ADCA31 MICHALÍKOVÁ, Alžbeta - RIEČAN, Beloslav. On invariant IF-state. In Soft Computing, 2018, vol. 22, no. 15, p. 5043-5049. (2017: 2.367 - IF, Q2 - JCR, 0.593 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1432-7643.
- ADCA32 MING, Hao - WANG, JinRong - FEČKAN, Michal. The application of fractional calculus in chinese economic growth models. In Mathematics, 2019, vol. 7, no. 8. (2018: 1.105 - IF, Q1 - JCR, 0.244 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2227-7390.
- ADCA33 OKŠA, Gabriel - YAMAMOTO, Yusaku - BEČKA, Martin - VAJTERŠIC, Marián. Asymptotic quadratic convergence of the two-sided serial and parallel block-Jacobi SVD algorithm. In Siam Journal on Matrix Analysis and Applications, 2019, vol. 40, no. 2, p. 639-671. (2018: 1.912 - IF, Q1 - JCR, 1.248 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1095-7162.
- ADCA34 PULMANNOVÁ, Sylvia. Congruences and ideals in generalized pseudoeffect algebras revisited. In Soft Computing, 2019, vol. 23, no. 3, p. 735-745. (2018: 2.784 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1432-7643.
- ADCA35 REN, Lulu - WANG, JinRong - FEČKAN, Michal. Asymptotically periodic solutions for caputo type fractional evolution equations. In Fractional Calculus and Applied Analysis, 2018, vol. 21, no. 5, p. 1294-1312. (2017: 2.865 - IF, Q1 - JCR, 1.967 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1311-0454.
- ADCA36 ŠUCH, Ondrej - KLIMO, Martin - KEMP, N.T. - ŠKVAREK, Ondrej. Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. In AEU-International Journal of Electronics and Communications, 2018, vol. 96, p. 252-259. (2017: 2.115 - IF, Q2 - JCR, 0.420 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1434-8411.
- ADCA37 WANG, JinRong - FEČKAN, Michal - DEBBOUCHE, Amar. Time optimal control of a system governed by non-instantaneous impulsive differential equations. In Journal of Optimization Theory and Applications, 2019, vol. 182, no. 2, p. 573-587. (2018: 1.600 - IF, Q2 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3239.
- ADCA38 WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal - ZHOU, Yong. Controllability of fractional non-instantaneous impulsive differential inclusions without compactness. In IMA Journal of Mathematical Control and Information, 2019, vol. 36, no. 2, p. 443-460. (2018: 1.000 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0265-0754.
- ADCA39 YANG, Peng - WANG, JinRong - FEČKAN, Michal. Periodic nonautonomous differential equations with noninstantaneous impulsive effects. In Mathematical Methods in the Applied Sciences, 2019, vol. 42, p. 3700-3720. (2018: 1.533 - IF, Q2 - JCR, 0.666 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0170-4214.

- ADCA40 YANG, Peng - WANG, JinRong - O'REGAN, D. - FEČKAN, Michal. Inertial manifold for semi-linear non-instantaneous impulsive parabolic equations in an admissible space. In Communications in Nonlinear Science and Numerical Simulation, 2019, vol. 75, p. 174-191. (2018: 3.967 - IF, Q1 - JCR, 1.326 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1007-5704. Dostupné na internete:
<<https://www.sciencedirect.com/journal/communications-in-nonlinear-science-and-numerical-simulation/vol/75/suppl/C>>.
- ADCA41 YOU, Zhongli - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Representation of solutions and finite time stability for delay differential systems with impulsive effects. In International Journal of Nonlinear Sciences and Numerical Simulation, 2019, vol. 20, no. 2, p. 205-221. (2018: 1.033 - IF, Q3 - JCR, 0.288 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1565-1339.

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 DILNA, Nataliya - FEČKAN, Michal - RONTÓ, András. On a class of functional differential equations with symmetries. In SYMMETRY-BASEL, 2019, vol. 11, issue 12, p. (2018: 2.143 - IF, Q2 - JCR, 0.287 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2073-8994.

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 ČUNDERLÍKOVÁ, Katarína. Connection between interval-valued observables and intuitionistic fuzzy observables. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 1, p. 32-42. ISSN 1310-4926.
- ADEB02 ČUNDERLÍKOVÁ, Katarína. m-almost everywhere convergence of intuitionistic fuzzy observables induced by Borel measurable function. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 29-40. ISSN 1310-4926.
- ADEB03 ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In Izmeriteľná technika, 2019, no. 4, p. 14-18. ISSN 0368-1025.
- ADEB04 FEČKAN, Michal - PÁČUTA, Július - POSPÍŠIL, Michal - VIDLIČKA, Pavol. Averaging methods for piecewise-smooth ordinary differential equations. In AIMS Mathematics, 2019, vol. 4, no. 5, p. 1466-1487. (2019 - Current Contents). ISSN 2473-6988.
- ADEB05 LI, Mengmeng - WANG, JinRong - FEČKAN, Michal. Periodic solutions for impulsive differential systems. In Communications in Mathematical Analysis, 2018, vol. 21, no. 2, p. 35-46. (2017: 0.145 - SJR, Q4 - SJR). ISSN 0973-3841.
- ADEB06 MICHALÍKOVÁ, Alžbeta. Intuitionistic fuzzy sets and their use in image classification. In Notes on Intuitionistic Fuzzy Sets, 2019, vol. 25, no. 2, p. 60-66. ISSN 1310-4926.
- ADEB07 OHKUBO, Yukio - STRAUCH, Oto. Distribution of leading digits of numbers II. In Uniform Distribution Theory, 2019, vol. 14, no. 1, p. 19-42. ISSN 1336-913X.
- ADEB08 WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In Izmeriteľná technika, 2019, no. 4, p. 19-25. ISSN 0368-1025.

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

- ADMA01 BALKO, Ľudovít - MACKO, Tibor - NIEPEL, Martin - RUSIN, Tomáš. Higher simple structure sets of lens spaces with the fundamental group of order $2\sup K/\sup$. In *Topology and its Applications*, 2019, vol. 263, p. 299-320. (2018: 0.416 - IF, Q4 - JCR, 0.574 - SJR, Q2 - SJR). ISSN 0166-8641.
- ADMA02 CROWLEY, Diarmuid - MACKO, Tibor. On the cardinality of the manifold set. In *Geometriae Dedicata*, 2019, vol. 200, no. 1, p. 265-285. (2018: 0.513 - IF, Q4 - JCR, 0.839 - SJR, Q2 - SJR). ISSN 0046-5755.
- ADMA03 DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. Chaos control in the fractional order logistic map via impulses. In *Nonlinear Dynamics*, 2019, vol. 98, no. 2, p. 1219-1230. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X.
- ADMA04 DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Rich dynamics and anticontrol of extinction in a prey-predator system. In *Nonlinear Dynamics*, 2019, vol. 98, no. 2, p. 1421-1445. (2018: 4.604 - IF, Q1 - JCR, 1.379 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0924-090X.
- ADMA05 FOULIS, David J - PULMANNOVÁ, Sylvia. Spectral order on a synaptic algebra. In *Order : a Journal on the Theory of Ordered Sets and its Applications*, 2019, vol. 36, p. 1-17. (2018: 0.424 - IF, Q4 - JCR, 0.366 - SJR, Q3 - SJR). ISSN 0167-8094.
- ADMA06 HOLÁ, Ľubica - HOLÝ, Dušan. Metrizability of the space of quasicontinuous functions. In *Topology and its Applications*, 2018, vol. 246, p. 137-143. (2017: 0.549 - IF, Q4 - JCR, 0.609 - SJR, Q2 - SJR). ISSN 0166-8641.
- ADMA07 HOLÁ, Ľubica - HOLÝ, Dušan. Compactness in function spaces. In *Topology and its Applications*, 2019, vol. 262, p. 20-29. (2018: 0.416 - IF, Q4 - JCR, 0.574 - SJR, Q2 - SJR). ISSN 0166-8641.
- ADMA08 HOLÁ, Ľubica - KOČINAC, Ljubiša D.R. Boundedness properties in function spaces. In *Quaestiones Mathematicae*, 2018, vol. 41, no. 6, p. 829-838. (2017: 0.428 - IF, Q4 - JCR, 0.343 - SJR, Q3 - SJR). ISSN 1607-3606.
- ADMA09 HU, Kan - NEDELA, Roman - WANG, Naer. Complete regular dessins of odd prime power order. In *Discrete Mathematics*, 2019, vol. 342, p. 314-325. (2018: 0.728 - IF, Q3 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 0012-365X.
- ADMA10 KADKHODA, Nematollah - FEČKAN, Michal - KHALILI, Yasser. Application of the $\exp(-\phi)$ -expansion method to the Pochhammer-Chree equation. In *Filomat*, 2018, vol. 32, no. 9, p. 3347-3354. (2017: 0.635 - IF, Q4 - JCR, 0.384 - SJR, Q3 - SJR). ISSN 0354-5180.
- ADMA11 WANG, JinRong - FEČKAN, Michal. Periodic solutions and stability of linear evolution equations with noninstantaneous impulses. In *Miskolc Mathematical Notes*, 2019, vol. 20, no. 2, p. 1299-1313. (2018: 0.468 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR). ISSN 1787-2405.

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

- ADMB01 BALKO, Ľudovít - MACKO, Tibor - NIEPEL, Martin - RUSIN, Tomáš. Higher simple structure sets of lens spaces with the fundamental group of arbitrary order. In *Archivum Mathematicum*, 2019, vol. 55, p. 267-280. (2018: 0.223 - SJR, Q3 - SJR). ISSN 0044-8753.
- ADMB02 BORSÍK, Ján. Points of uniform convergence and quasicontinuity. In *European Journal of Mathematics*, 2019, vol. 5, no. 2, p. 174-185. (2018: 0.632 - SJR, Q2 - SJR). ISSN 2199-675X.

- ADMB03 BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Isotone Galois connections and generalized one-sided concept lattices. In Advances in Intelligent Systems and Computing : Multimedia and Network Information Systems, 2019, vol. 833, p. 151-160. (2018: 0.174 - SJR, Q3 - SJR). ISSN 2194-5357.
- ADMB04 BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Note on aggregation functions and concept forming operators. In Advances in Intelligent Systems and Computing : New Trends in Aggregation Theory, 2019, vol. 981, p. 279-288. (2018: 0.174 - SJR, Q3 - SJR). ISSN 2194-5357.
- ADMB05 DANCA, Marius-F. - FEČKAN, Michal - POSPÍŠIL, Michal. Difference equations with impulses. In Opuscula Mathematica, 2019, vol. 39, no. 1, p. 5-22. (2018: 0.685 - SJR, Q2 - SJR). ISSN 1232-9274. Dostupné na internete: <https://www.opuscula.agh.edu.pl/vol39/1/art/opuscula_math_3901.pdf>.
- ADMB06 DAVIES, Sylvie - HOSPODÁR, Michal. Square, power, positive closure, and complementation on star-free languages. In Lecture Notes in Computer Science, 2019, vol. 11612, p. 98-110. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
- ADMB07 DOBREV, Stefan - NARAYANAN, Lata - OPATRNY, Jaroslav - PANKRATOV, Denis. Exploration of high-dimensional grids by finite automata. In Leibniz International Proceedings in Informatics, LIPIcs.46th International Colloquium on Automata, Languages, and Programming, 2019, vol. 132, no. 139, p. 1-16. ISSN 1868-8969.
- ADMB08 ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In Measurement Techniques, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.
- ADMB09 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Pseudo EMV-algebras. I. Basic Properties. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2019, vol. 6, no. 7, p. 1285-1327. ISSN 2055-3706.
- ADMB10 DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. Pseudo EMV-algebras. II. Representation and States. In Journal of Applied Logics : IFColog Journal of logics and their Applications, 2019, vol. 6, no. 7, p. 1329-1372. ISSN 2055-3706.
- ADMB11 FEČKAN, Michal - HRISTOVA, Snezhana - IVANOVA, Krasimira. Practical stability of differential equations with state dependent delay and non-instantaneous impulses. In Communications in Mathematical Analysis, 2019, vol. 22, no. 2, p. 1-17. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.
- ADMB12 HALAŠ, Radomír - PÓCS, Jozef. Aggregation via clone theory approach. In Advances in Intelligent Systems and Computing : New Trends in Aggregation Theory, 2019, vol. 981, p. 244-254. (2018: 0.174 - SJR, Q3 - SJR). ISSN 2194-5357.
- ADMB13 HEINOSAARI, Teiko - LEPPÄJÄRVI, Leevi - PLÁVALA, Martin. No-free-information principle in general probabilistic theories. In Quantum : the open journal for quantum science, 2019, vol. 3, p. 157. (2019 - Current Contents). ISSN 2521-327X. Dostupné na internete: <<https://scirate.com/arxiv/1808.07376v3>>.
- ADMB14 HOLZER, Markus - HOSPODÁR, Michal. The range of state complexities of languages resulting from the cut operation. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 190-202. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
- ADMB15 HOSPODÁR, Michal. Descriptive complexity of power and positive closure on convex languages. In Lecture Notes in Computer Science, 2019, vol. 11601, p. 158-170. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.

- ADMB16 JENČOVÁ, Anna - PLÁVALA, Martin. On the properties of spectral effect algebras. In Quantum : the open journal for quantum science, 2019, vol. 3, p. 148. (2019 - Current Contents). ISSN 2521-327X. Dostupné na internete: <<https://scirate.com/arxiv/1811.12407v2>>.
- ADMB17 JIRÁSKOVÁ, Galina - KLÍMA, Ondřej. Deterministic biautomata and subclasses of deterministic linear languages. In Lecture Notes in Computer Science : Language and Automata Theory and Applications, 2019, vol. 11417, p. 315-327. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
- ADMB18 JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. NFA-to-DFA trade-off for regular operations. In Lecture Notes in Computer Science : Descriptive complexity of formal systems, 2019, vol. 11612, p. 184-196. (2018: 0.283 - SJR, Q2 - SJR). ISSN 0302-9743.
- ADMB19 MEDVEĎ, Milan - POSPÍŠIL, Michal. Representation of solutions of systems of linear differential equations with multiple delays and linear parts given by nonpermutable matrices. In Journal of Mathematical Sciences, 2018, vol. 228, no. 3, p. 276-289. (2017: 0.304 - SJR, Q3 - SJR). ISSN 1072-3374.
- ADMB20 POSPÍŠIL, Michal. Laplace transform, Gronwall inequality and delay differential equations for general conformable fractional derivative. In Communications in Mathematical Analysis, 2019, vol. 22, no. 1, p. 14-33. (2018: 0.167 - SJR, Q4 - SJR). ISSN 0973-3841.
- ADMB21 ŠUCH, Ondřej - KONTŠEK, Martin - TINAJOVÁ, Andrea. Neural pairwise classification models created by ignoring irrelevant alternatives. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 66-70. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).
- ADMB22 ŠUCH, Ondřej - BARREDA, Santiago - MOJSEJ, Anton. A comparison of formant and CNN models for vowel frame recognition. In CEUR Workshop Proceedings : Information Technologies - Applications and Theory 2019, 2019, vol. 2473, p. 139-144. ISSN 1613-0073.(ITAT 2019 : 19th Conference Information Technologies: Applications and Theory).
- ADMB23 WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In Measurement Techniques, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972.

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

- ADNB01 BABICOVÁ, Dušana. Probability integral as a linearization. In Tatra Mountains Mathematical Publications, 2018, vol. 72, p. 1-15. (2017: 0.363 - SJR, Q3 - SJR). ISSN 1210-3195.
- ADNB02 BABICOVÁ, Dušana - FRIČ, Roman. Real functions in stochastic dependence. In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 17-34. (2018: 0.226 - SJR, Q3 - SJR). ISSN 1210-3195.
- ADNB03 ĎURIŠ, Stanislav - ĎURIŠOVÁ, Z. - WIMMER, Gejza - DOVICA, M. Stability check of certified reference materials of carbon and sulphur content in steel used for analysis of low-alloyed steels. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 331-334. ISBN 978-80-972629-2-1.

- ADNB04 FEČKAN, Michal - PAČUTA, J. Data approximation using Lotka-Volterra models and a software minimization function. In Journal of Applied Mathematics, Statistics and Informatics, 2019, vol. 15, no. 2, p. 5-14. ISSN 1339-0015.
- ADNB05 FRIČ, Roman. Product of measurable spaces and applications. In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 47-56. (2018: 0.226 - SJR, Q3 - SJR). ISSN 1210-3195.
- ADNB06 HALUŠKA, Ján - JASTRZEBSKA, Malgorzata. A three dimensional modification of the Gaussian number field. In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 63-76. (2018: 0.226 - SJR, Q3 - SJR). ISSN 1210-3195.
- ADNB07 HU, Kan - NEDELA, Roman - WANG, Naer - YUAN, K. Reciprocal skew morphisms of cyclic groups. In Acta Mathematica Universitatis Comenianae, 2019, vol. 88, no. 2, p. 305-318. (2018: 0.247 - SJR, Q3 - SJR). ISSN 0862-9544.
- ADNB08 RIEČAN, Beloslav - MARKECHOVÁ, Dagmar. Rényi entropy and Rényi divergence in the intuitionistic fuzzy case. In Tatra Mountains Mathematical Publications, 2018, vol. 72, p. 77-105. (2017: 0.363 - SJR, Q3 - SJR). ISSN 1210-3195.
- ADNB09 WIMMER, Gejza - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. ISBN 978-80-972629-2-1.
- ADNB10 WITKOVSKÝ, Viktor - WIMMER, Gejza. Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration. In MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 62-65. ISBN 978-80-972629-2-1.

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

- AECA01 ČUNDERLÍKOVÁ, Katarína. Two theorems from extreme value theory for interval valued events. In Atlantis Studies in Uncertainty Modelling. - Atlantis Press, 2019. ISSN 2589-6644.
- AECA02 SOTIROVA, Evdokia - SHANNON, Anthony G. - KIM, Taekyun - KRAWCZAK, Maciej - MELO-PINTO, Pedro - RIEČAN, Beloslav. Intuitionistic fuzzy evaluations for the analysis of a student's knowledge in university e-learning courses. In Ituitionistic Fuzziness and Other Intelligent Theories and Their Applications : Studies in Computational Intelligence. 757. - Springer International Publishing, 2019, p. 95-100. ISBN 978-3-319-78930-9. ISSN 1860-949X.

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 KUZNETSOV, E.D. - ROSAEV, A. - PLÁVALOVÁ, Eva. The Yarkovsky effect estimation for some asteroid pairs with close orbits. In LPI Contribution, no. 2157. ISSN 0161-5297.
- AFG02 ROSAEV, A. - PLÁVALOVÁ, Eva. On the orbital characteristics of very young asteroid families and pairs. In LPI Contribution, no. 2083. ISSN 0161-5297.

BDE Odborné práce v ostatných zahraničných časopisoch

- BDE01 DVUREČENSKIJ, Anatolij. Prof. Beloslav Riečan passed away. In Mathware and Soft Computing Magazine, 2018, vol. 25, no. 2, p. 12-13. ISSN 1134-5632.

EDJ Prehľadové práce, odborné práce, preklady noriem, odborné preklady v časopisoch a zborníkoch

- EDJ01 STRAUCH, Oto - BELASOVÁ, Jana - HOLÁ, Ľubica - BALÁŽ, Vladimír. Tibor Šalát (1926-2005). Rec: Štefan Porubský, János Tóth. Bratislava : VEDA, Vydavateľstvo SAV, 2019. 216 p. ISBN 978-80-224-1741-9.

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

- FAI01 Descriptive complexity of formal systems : Proceedings LNCS 11612. Michal Hospodár, Galina Jirásková, Stavros Konstantinidis (eds.). Springer International Publishing, 2019. Lecture Notes in Computer Science, 11612. ISBN 978-3-030-23246-7. ISSN 0302-9743.
- FAI02 Implementation and application of automata : Proceedings LNCS 11601. Michal Hospodár, Galina Jirásková (eds.). Springer International Publishing, 2019. Lecture Notes in Computer Science, 11601. ISBN 978-3-030-23678-6. ISSN 0302-9743.
- FAI03 Tatra Mountains Mathematical Publications. Editor in chief K. Nemoga, managing editors T. Žáčik, B. Novotný. Bratislava : Veda, 1992-. Databáza WOS 2007-2013, databáza SCOPUS 2011-2015. ISSN 1210-3195.
- FAI04 Uniform Distribution Theory vol. 14 no. 1 (2019). The 6th International Conference on Uniform Distribution Theory (UDT 2018), CIRM, Luminy, Marseilles, France, October 1-5, 2018. Scientific Board members: O. Strauch, V. Baláž. Vienna : University of Natural Resources and Life Sciences. Bratislava: Matematický ústav SAV. ISSN 1336-913X.

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

- GHG01 JIRÁSKOVÁ, Galina. Report on CIAA 2018 : Conference on implementation and application of automata. In Bulletin of the EATCS, 2019, vol. 127.
- GHG02 YAMAMOTO, Yusaku - OKŠA, Gabriel - VAJTERŠIC, Marián. Convergence of eigenvectors in the block classical Jacobi method for the symmetric eigenvalue problem : Technical report 2019-04 [elektronický zdroj]. Salzburg : Universität Salzburg, 2019. 14 p.

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

- GII01 DVUREČENSKIJ, Anatolij. Prof. RNDr. Pavel Brunovský, DrSc. passed away : *Dec. 5, 1934 - †Dec. 14, 2018 . In Mathematica Slovaca, 2019, vol. 69, no. 1, p. 1-4. (2018: 0.490 - IF, Q4 - JCR, 0.279 - SJR, Q3 - SJR). ISSN 0139-9918.
- GII02 DVUREČENSKIJ, Anatolij. The life jubilee of prof. RNDr. Sylvia Pulmannová, DrSc. In Mathematica Slovaca, 2019, vol. 69, no. 3, p. 475-478. (2018: 0.490 - IF, Q4 - JCR, 0.279 - SJR, Q3 - SJR). ISSN 0139-9918.
- GII03 DVUREČENSKIJ, Anatolij - WITKOVSKÝ, Viktor. Profesor Gejza Wimmer, sedemdesiatnik? In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 1, s. 46-50. ISSN 1335-4981.
- GII04 DVUREČENSKIJ, Anatolij. Zomrel RNDr. Miloslav Duchoň, DrSc. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 1, s. 51-53. ISSN 1335-4981.
- GII05 DVUREČENSKIJ, Anatolij. Quo vadis, slovenská matematika? In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 2, s. 1-7. ISSN 1335-4981.

- GII06 DVUREČENSKIJ, Anatolij. Prof. RNDr. Andrej Pázman, DrSc. Osemdesiatnik? In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 2, s. 31-34. ISSN 1335-4981.
- GII07 DVUREČENSKIJ, Anatolij. Životné jubileum doc. RNDr. Silvie Pulmannovej, DrSc. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 2, s. 35-38. ISSN 1335-4981.
- GII08 DVUREČENSKIJ, Anatolij. Zomrel prof. RNDr. Pavol Brunovský, DrSc. In Pokroky matematiky, fyziky a astronomie, 2018, roč. 63, č. 4, s. 285-287. ISSN 0032-2423.
- GII09 DVUREČENSKIJ, Anatolij. Doc. RNDr. Roman Frič, DrSc. - 3/4C? In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 4, s. 60-63. ISSN 1335-4981.
- GII10 DVUREČENSKIJ, Anatolij. Matematický ústav SAV má 60 rokov. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 4, s. 10. ISSN 1335-4981.
- GII11 ELIAŠ, Peter - REPICKÝ, Miroslav - ŠUPINA, Jaroslav. Profesor Lev Bukovský sa dožíva významného životného jubilea. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 4, s. 56-59. ISSN 1335-4981.
- GII12 FRIČ, Roman. Profesor Marián Trenkler sedemdesiatročný. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 1, s. 38-41. ISSN 1335-4981.
- GII13 FRIČ, Roman. Profesor Anatolij Dvurečenskij sa dožíva významného jubilea. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 1, s. 42-45. ISSN 1335-4981.
- GII14 FRIČ, Roman. Spomíname za docentom Jánom Borsíkom. In Obzory matematiky, fyziky a informatiky, 2019, roč. 48, č. 4, s. 71-72. ISSN 1335-4981.
- GII15 FRIČ, Roman - HOLÁ, Ľubica. Ján Borsík (1955-2019). In Tatra Mountains Mathematical Publications, 2019, vol. 74, p. 1-6. (2018: 0.226 - SJR, Q3 - SJR). ISSN 1210-3195.
- GII16 HALUŠKOVÁ, Emília. Lož má krátke nohy. In Matmix, 2019, roč. 25, č. 2, s. 3-5. ISSN 1336-7854.
- GII17 HALUŠKOVÁ, Emília - LABÁTH, Ivan. Zipfov zákon. In Mladý vedec, 2019, roč. 13, č. 43, s. 24-25. ISSN 1337-5873.
- GII18 MRAČKA, Igor - ŽÁČIK, Tibor - HYČKO, Marek - HAJOSSY, Rudolf - SOMORA, Peter. Optimization of gas transport - evolutionary calculations on a small cluster of computers. In PSIG 2019, Pipeline Simulation Interest Group Annual Meeting, 12-15 May, London, UK. - London : Pipeline Simulation Interest Group, 2019. Dostupná na internete: <<https://www.onepetro.org/conference-paper/PSIG-1915>>

(Poznámka: Uvedená publikácia je publikovaný príspevok na zahraničnej vedeckej konferencii, ale nie je zaradená do tejto kategórie -- AFC, lebo podľa pravidiel zaraďovania, ktoré sú jednotné pre SAV sem nie je možné uviesť publikáciu zo zborníka, ktorý nemá ISSN alebo ISBN.

Vydavateľstvo OnePetro, ktoré vydalo príslušný zborník túto prax nemá, napriek tomu, že sa jedná o vedecké publikácie.)

- GII19 WIMMER, Gejza - WITKOVSKEÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46.
- GII20 WITKOVSKEÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In MathMet 2019 : Book of Abstracts. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47.

Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS

1. Mathematica Slovaca.
De Gruyter. Editor-in-Chief: S. Pulmannová. Managing editor: A. Dvurečenskij.
ISSN 0139-9918. Online ISSN 1337-2211. Evidované WOS, SCOPUS.
2. Tatra Mountains Mathematical Publications.
Sciend (De Gruyter Open). Editor-in-Chief: K. Nemoga, Editors: T. Žáčik,
B. Novotný. ISSN 1210-3195. Online ISSN: 1338-9750. Evidované: SCOPUS.

Ostatné vydané periodiká

1. Uniform Distribution Theory.
Vienna : University of Natural Resources and Life Sciences (BOKU) and
Bratislava: Mathematical Institute, Slovak Academy of Sciences.
Scientific Board members: O. Strauch, V. Baláž. ISSN 1336-913X.
2. Obzory matematiky, fyziky a informatiky.
Odborná garancia: Jednota slovenských matematikov a fyzikov,
Matematický ústav SAV a Fakulta prírodných vied UKF Nitra. ISSN 1335-4981.

Ohlasy (citácie):

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

AAA01 DVUREČENSKIJ, Anatolij. Gleason's Theorem and Its Applications. Dordrecht : Kluwer Academic Publishers, 1993. 325+xv pp. ISBN 978-0-7923-1990-0.

Citácie:

1. [1.1] CERREIA-VIOGLIO, S. - MACCHERONI, F. - MARINACCI, M. - MONTRUCCHIO, L. Commutativity, comonotonicity, and Choquet integration of self-adjoint operators. In *REVIEWS IN MATHEMATICAL PHYSICS*. ISSN 0129-055X, 2018, vol. 30, no. 10, art. no. 1850016., Registrované v: WOS
2. [1.1] MATOUSEK, Milan - PTAK, Pavel. Orthomodular lattices that are $Z(2)$ -rich. In *RICERCHES DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 321-329., Registrované v: WOS
3. [1.1] MORETTI, Valter - OPPIO, Marco. The Correct Formulation of Gleason's Theorem in Quaternionic Hilbert Spaces. In *ANNALES HENRI POINCARÉ*. ISSN 1424-0637, 2018, vol. 19, no. 11, p. 3321-3355., Registrované v: WOS
4. [1.1] SVOZIL, K. Physical (A)Causality: Determinism, Randomness and Uncaused Events. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, p. 1-219., Registrované v: WOS
5. [1.2] LOVAS, Attila. Robertson-type uncertainty principles and generalized symmetric and antisymmetric covariances. In *Springer Proceedings in Mathematics and Statistics*. ISSN 21941009, 2018, vol. 252, p. 445-456., Registrované v: SCOPUS
6. [3.1] KALMBACH, Gudrun. Einstein metrics and two projection maps. In *J Mod Appl Phys.*, 2018, vol. 2, no. 2, p. 19-22.

AAA02 DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. New Trends in Quantum Structures. Dordrecht : Kluwer Academic ; Bratislava : Ister Science, 2000. 541+xvi pp. ISBN 0-7923-6471-6.

Citácie:

1. [1.1] CHAJDA, Ivan - PASEKA, Jan. The Poset-based Logics for the De Morgan Negation and Set Representation of Partial Dynamic De Morgan Algebras. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 3, p. 213-237., Registrované v: WOS
2. [1.1] CHAJDA, Ivan - PASEKA, Jan. The Poset-based Logics for the De Morgan Negation and Set Representation of Partial Dynamic De Morgan Algebras. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 3, p. 213-237., Registrované v: WOS
3. [1.1] CIUNGU, Lavinia Corina. Commutative deductive systems of pseudo-BCK-algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS
4. [1.1] DALLA CHIARA, M. L. - GIUNTINI, R. - SERGIOLI, G. - LEPORINI, R. A many-valued approach to quantum computational logics. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 335, p. 94-111., Registrované v: WOS
5. [1.1] EMANOVSKY, Petr - KUHR, Jan. On special elements and pseudocomplementation in lattices with antitone involutions. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 14, p. 4561-4572., Registrované v: WOS

6. [1.1] GISKI, Zahra Eslami - EBRAHIMZADEH, Abolfazl - MARKECHOVA, Dagmar. Logical entropy on effect algebras with the Riesz decomposition property. In *EUROPEAN PHYSICAL JOURNAL PLUS*. ISSN 2190-5444, 2018, vol. 133, no. 7, art. no. 286., Registrované v: WOS
7. [1.1] JANDA, Jiri - XIE, Yongjian. The spectrum of the sum of observables on sigma-complete MV-effect algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
8. [1.1] JENCA, Gejza. Effect Algebras as Presheaves on Finite Boolean Algebras. In *ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS*. ISSN 0167-8094, 2018, vol. 35, no. 3, p. 525-540., Registrované v: WOS
9. [1.1] JI, Wei. Meager projections in orthocomplete homogeneous effect algebras. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 339, p. 51-61., Registrované v: WOS
10. [1.1] LEDDA, Antonio - PAOLI, Francesco - TSINAKIS, Constantine. The Archimedean property: new horizons and perspectives. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 91., Registrované v: WOS
11. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., Registrované v: WOS
12. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS
13. [1.1] MEHRSHAD, S. - KOUHESTANI, N. On Pseudo-Valuations on BCK-Algebras. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 12, p. 4319-4332., Registrované v: WOS
14. [1.1] NGANOU, Jean B. PROFINITE COMPLETIONS OF MV-ALGEBRAS. In *HOUSTON JOURNAL OF MATHEMATICS*. ISSN 0362-1588, 2018, vol. 44, no. 3, p. 753-767., Registrované v: WOS
15. [1.1] ROSA, Marco - VITOLO, Paolo. Measures and submeasures on $d(0)$ -algebras. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 373-386., Registrované v: WOS
16. [1.1] STATON, Sam - UIJLEN, Sander. Effect algebras, presheaves, non-locality and contextuality. In *INFORMATION AND COMPUTATION*. ISSN 0890-5401, 2018, vol. 261, p. 336-354., Registrované v: WOS
17. [1.1] SVOZIL, Karl. New Forms of Quantum Value Indefiniteness Suggest That Incompatible Views on Contexts Are Epistemic. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 6, art. no. 406., Registrované v: WOS
18. [1.1] TYLEC, Tomasz I. - KUS, Marek. Ignorance is a bliss: Mathematical structure of many-box models. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 3, art. no. 032202., Registrované v: WOS
19. [1.1] WEBER, Hans. Extension of modular functions and measures. In *ANNALI DI MATEMATICA PURA ED APPLICATA*. ISSN 0373-3114, 2018, vol. 197, no. 3, p. 761-774., Registrované v: WOS
20. [1.1] XIN, Xiao Long - ZOU, Yu Xi - ZHAN, Jian Ming. Hyper BL-Algebras. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 19, p. 6675-6689., Registrované v: WOS

21. [1.1] ZHAO, Bin - HE, Pengfei. *On Non-commutative Residuated Lattices With Internal States*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1387-1400., Registrované v: WOS
 22. [1.2] LIENHARDT, Michael - DAMIANI, Ferruccio - DONETTI, Simone - PAOLINI, Luca. *Multi software product lines in the wild*. In *ACM International Conference Proceeding Series*, 2018, p. 89-96., Registrované v: SCOPUS
 23. [2.1] KHARE, Mona - SINGH, Bhawana - SHUKLA, Anurag. *APPROXIMATION IN QUANTUM MEASURE SPACES*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 3, p. 491-500., Registrované v: WOS
 24. [2.1] SINGH, Akhilesh Kumar. *INVARIANCE OF NONATOMIC MEASURES ON EFFECT ALGEBRAS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 2, p. 311-318., Registrované v: WOS
 25. [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018, vol. 72, no. 2, p. 1-15., Registrované v: SCOPUS
 26. [3.1] DALLA CHIARA, M.L. - GIUNTINI, R. - LEPORINI, R. - SERGIOLI, G. *The mathematical environment of quantum information*. In *Quantum Computation and Logic, Trends In Logic* 48, 2018. ISBN 978-3-030-04470-1, p. 1-30
 27. [3.1] IORGULESCU, A. *"Implicative-groups vs. groups and generalizations"*. Bucharest: Matrix Rom, 2018. ISBN 978-606-25-0394-9, 735 p.
 28. [4.1] HAVIAR, Miroslav. *On finitely generated free orthomodular lattices*. In *Acta Universitatis Matthiae Belli, series Mathematics*. ISSN 1338-712X, 2018, vol. 26, p. 27-57.
- AAA03 FEČKAN, Michal - WANG, JinRong - POSPÍŠIL, Michal. *Fractional-order equations and inclusions*. Berlin : Walter de Gruyter, 2017. 366 p. *Fractional Calculus in Applied Sciences and Engineering*, vol. 3. ISBN 978-3-11-052138-2.
- Citácie:
1. [1.1] BOYADZHIEV, D. - KISKINOV, H. - ZAHARIEV, A. *Integral representation of solutions of fractional system with distributed delays*. In *INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS*. ISSN 1065-2469, 2018, vol. 29, no. 9, pp. 725-744., Registrované v: WOS
 2. [1.1] KISKINOV, Hristo - ZAHARIEV, Andrey. *Asymptotic Stability of Delayed Fractional System with Nonlinear Perturbation*. In *PROCEEDINGS OF THE 44TH INTERNATIONAL CONFERENCE "APPLICATIONS OF MATHEMATICS IN ENGINEERING AND ECONOMICS"*. ISSN 0094-243X, 2018, vol. 2048, no., pp., Registrované v: WOS
- AAA04 FEČKAN, Michal - POSPÍŠIL, Michal. *Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems*. Amsterdam : Elsevier, 2016. 244 p. ISBN 978-0-12-804294-6.
- Citácie:
1. [1.1] HOSHAM, Hany A. *Bifurcations in four-dimensional switched systems*. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, no. 1, art. no. 388., Registrované v: WOS
- AAA05 HALUŠKA, Ján. *The Mathematical theory of tone systems*. New York, Basel : Marcel Dekker ; Bratislava : Ister Science, 2004. 380 p. ISBN 0-8247-4714-3.
- Citácie:
1. [1.1] LI, Min S. - DI LUCA, Massimiliano. *Musical Scales in Tone Sequences Improve Temporal Accuracy*. In *FRONTIERS IN PSYCHOLOGY*. ISSN 1664-1078, 2018, vol. 9, no., pp., Registrované v: WOS

AAA06

PÁZMAN, Andrej. Foundations of Optimum Experimental Design. Dordrecht : Reidel Publ. Comp, 1986. 286 s.

Citácie:

1. [1.1] ALEXANDERIAN, Alen - SAIBABA, Arvind K. EFFICIENT D-OPTIMAL DESIGN OF EXPERIMENTS FOR INFINITE-DIMENSIONAL BAYESIAN LINEAR INVERSE PROBLEMS. In SIAM JOURNAL ON SCIENTIFIC COMPUTING. ISSN 1064-8275, 2018, vol. 40, no. 5, pp. A2956-A2985., Registrované v: WOS
2. [1.1] ATTIA, Ahmed - ALEXANDERIAN, Alen - SAIBABA, Arvind K. Goal-oriented optimal design of experiments for large-scale Bayesian linear inverse problems. In INVERSE PROBLEMS. ISSN 0266-5611, 2018, vol. 34, no. 9, pp., Registrované v: WOS
3. [1.1] CHEN, Yongbo - HUANG, Shoudong - FITCH, Robert - YU, Jianqiao. Efficient Active SLAM based on Submap Joining, Graph Topology and Convex Optimization. In 2018 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA). ISSN 1050-4729, 2018, vol., no., pp. 5159-5166., Registrované v: WOS
4. [1.1] DEMIDENKO, Eugene. Optimal Adaptive Designs with Inverse Ordinary Differential Equations. In INTERNATIONAL STATISTICAL REVIEW. ISSN 0306-7734, 2018, vol. 86, no. 2, pp. 169-188., Registrované v: WOS
5. [1.1] DUARTE, Belmiro P. M. - WONG, Weng Kee - DETTE, Holger. Adaptive grid semidefinite programming for finding optimal designs. In STATISTICS AND COMPUTING. ISSN 0960-3174, 2018, vol. 28, no. 2, pp. 441-460., Registrované v: WOS
6. [1.1] HARMAN, Radoslav - PRUS, Maryna. Computing optimal experimental designs with respect to a compound Bayes risk criterion. In STATISTICS & PROBABILITY LETTERS. ISSN 0167-7152, 2018, vol. 137, no., pp. 135-141., Registrované v: WOS
7. [1.1] HERZOG, Roland - RIEDEL, Ilka - UCINSKI, Dariusz. Optimal sensor placement for joint parameter and state estimation problems in large-scale dynamical systems with applications to thermo-mechanics. In OPTIMIZATION AND ENGINEERING. ISSN 1389-4420, 2018, vol. 19, no. 3, pp. 591-627., Registrované v: WOS
8. [1.1] HOLLAND-LETZ, T. - KOPP-SCHNEIDER, A. Optimal experimental designs for estimating the drug combination index in toxicology. In COMPUTATIONAL STATISTICS & DATA ANALYSIS. ISSN 0167-9473, 2018, vol. 117, no., pp. 182-193., Registrované v: WOS
9. [1.1] HOLLAND-LETZ, Tim - GUNKEL, Nikolas - AMTMANN, Eberhard - KOPP-SCHNEIDER, Annette. Parametric modeling and optimal experimental designs for estimating isobolograms for drug interactions in toxicology. In JOURNAL OF BIOPHARMACEUTICAL STATISTICS. ISSN 1054-3406, 2018, vol. 28, no. 4, pp. 763-777., Registrované v: WOS
10. [1.1] PATAN, Maciej - KOWALOW, Damian. DISTRIBUTED SCHEDULING OF MEASUREMENTS IN A SENSOR NETWORK FOR PARAMETER ESTIMATION OF SPATIO-TEMPORAL SYSTEMS. In INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS AND COMPUTER SCIENCE. ISSN 1641-876X, 2018, vol. 28, no. 1, pp. 39-54., Registrované v: WOS

11. [1.1] ROCHE, Angelina. Local optimization of black-box functions with high or infinite-dimensional inputs: application to nuclear safety. In *COMPUTATIONAL STATISTICS*. ISSN 0943-4062, 2018, vol. 33, no. 1, pp. 467-485., Registrované v: WOS
12. [1.1] ROSA, Samuel. Optimal designs for treatment comparisons represented by graphs. In *ASTA-ADVANCES IN STATISTICAL ANALYSIS*. ISSN 1863-8171, 2018, vol. 102, no. 4, pp. 479-503., Registrované v: WOS
13. [1.1] RUTHOTTO, Lars - CHUNG, Julianne - CHUNG, Matthias. OPTIMAL EXPERIMENTAL DESIGN FOR INVERSE PROBLEMS WITH STATE CONSTRAINTS. In *SIAM JOURNAL ON SCIENTIFIC COMPUTING*. ISSN 1064-8275, 2018, vol. 40, no. 4, pp. B1080-B1100., Registrované v: WOS
14. [1.1] WALSH, Scott N. - WILDEY, Tim M. - JAKEMAN, John D. Optimal Experimental Design Using a Consistent Bayesian Approach. In *ASCE-ASME JOURNAL OF RISK AND UNCERTAINTY IN ENGINEERING SYSTEMS PART B-MECHANICAL ENGINEERING*. ISSN 2332-9017, 2018, vol. 4, no. 1, pp., Registrované v: WOS

AAA07

PTÁK, Pavel - PULMANNOVÁ, Sylvia. Orthomodular Structures as Quantum Logics. Dordrecht : Kluwer Academic Publishers ; Bratislava : VEDA, 1991. 244 s. ISBN 0-7923-1207-4.

Citácie:

1. [1.1] DVURECENSKIJ, Anatolij. Quantum Observables and Effect Algebras. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*. ISSN 0020-7748, 2018, vol. 57, no. 3, p. 637-651., Registrované v: WOS
2. [1.1] JENCA, Gejza. Effect Algebras as Presheaves on Finite Boolean Algebras. In *ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS*. ISSN 0167-8094, 2018, vol. 35, no. 3, p. 525-540., Registrované v: WOS
3. [1.1] JI, Wei. Meager projections in orthocomplete homogeneous effect algebras. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 339, no., p. 51-61., Registrované v: WOS
4. [1.1] LEI, C. - VOUDAS, A. Selective correlations in finite quantum systems and the Desargues property. In *JOURNAL OF GEOMETRY AND PHYSICS*. ISSN 0393-0440, 2018, vol. 128, no., p. 118-127., Registrované v: WOS
5. [1.1] NEUMANN, Eike - PAPE, Martin - STREICHER, Thomas. COMPUTABILITY IN BASIC QUANTUM MECHANICS. In *LOGICAL METHODS IN COMPUTER SCIENCE*. ISSN 1860-5974, 2018, vol. 14, no. 2, art. nr. 14., Registrované v: WOS
6. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2471-2483., Registrované v: WOS
7. [1.1] SVOZIL, K. Physical (A)Causality: Determinism, Randomness and Uncaused Events. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, no., p. 1-219., Registrované v: WOS
8. [1.1] SVOZIL, Karl. New Forms of Quantum Value Indefiniteness Suggest That Incompatible Views on Contexts Are Epistemic. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 6, art. nr. 406., Registrované v: WOS
9. [1.1] TYLEC, Tomasz I. - KUS, Marek. Ignorance is a bliss: Mathematical structure of many-box models. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 3, art.nr. 32202., Registrované v: WOS

10. [1.1] VOUREDAS, A. *EIndependence and totalness of subspaces in phase space methods*. In ANNALS OF PHYSICS. ISSN 0003-4916, 2018, vol. 391, no., p. 83-111., Registrované v: WOS
 11. [2.1] HARDING, John. WIGNER'S THEOREM FOR AN INFINITE SET. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 5, p. 1173-1222., Registrované v: WOS
 12. [4.1] HAVIAR, Miroslav. *On finitely generated free orthomodular lattices*. In Acta Universitatis Matthiae Belli, series Mathematics. ISSN 1338-712X, 2018, vol. 26, p. 27-57.
- AAA08 RIEČAN, Beloslav - BOCCUTO, A. - VRÁBELOVÁ, M. Kurzweil-Henstock Integral in Riesz Spaces. Bentham Science Publishers, ltd, 2009. 224 s. ISBN 978-1-60805-003-1.
- Citácie:
1. [1.1] YOU, Xuexiao - ZHAO, Dafang - TORRES, Delfim F. M. *On the Henstock-Kurzweil integral for Riesz-space-valued functions on time scales*. In JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS. ISSN 2008-1898, 2017, vol. 10, no. 5, p. 2487-2500., Registrované v: WOS
- AAA09 RIEČAN, Beloslav - NEUBRUNN, Tibor. Integral, measure, and ordering. Dordrecht : Kluwer Academic Publishers, 1997. ISBN 80-88683-18-1.
- Citácie:
1. [1.1] BARTKOVÁ, Renata - CUNDERLIKOVÁ, Katarína. *About Fisher-Tippett-Gnedenko Theorem for Intuitionistic Fuzzy Events*. In ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1. ISSN 2194-5357, 2018, vol. 641, no., pp. 125-135., Registrované v: WOS
 2. [1.1] BOCCUTO, Antonio - DIMITRIOU, Xenofon. *Equivalence Between Limit Theorems for Lattice Group-Valued k-Triangular Set Functions*. In MEDITERRANEAN JOURNAL OF MATHEMATICS. ISSN 1660-5446, 2018, vol. 15, no. 4, pp., Registrované v: WOS
 3. [1.1] DVURECENSKIY, Anatolij. *Markov kernels and tribes*. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 460, no., pp. 42-50., Registrované v: WOS
 4. [1.1] DVURECENSKIY, Anatolij. *Markov kernels and tribes*. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 460, p. 42-50., Registrované v: WOS
 5. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras*. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 2, pp., Registrované v: WOS
 6. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events*. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS
 7. [1.2] BARTKOVÁ, Renata - ČUNDERLÍKOVÁ, Katarína. *About fisher-tippett-gnedenko theorem for intuitionistic fuzzy events*. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018, vol. 641, p. 125-135., Registrované v: SCOPUS
- AAA10 STRAUCH, Oto - PORUBSKÝ, Š. Distribution of Sequences: A Sampler. Frankfurt am Main : Peter Lang, 2005. 569 p. ISBN 3-631-54013-2.
- Citácie:
1. [1.1] LIMIC, Vlada - LIMIC, Nedžad. *Equidistribution, uniform distribution: a probabilist's perspective*. In PROBABILITY SURVEYS. ISSN 1549-5787, 2018, vol. 15, p. 131-155., Registrované v: WOS

- AAA11 TROBEC, Roman - VAJTERŠIĆ, Marián - ZINTERHOF, Peter. Parallel Computing: Numerics, Applications, and Trends. London : Springer - Verlag, 2009. 520 p. ISBN 978-1-84882-408-9.
Citácie:
1. [1.2] SCHOBER, Peter. Supercomputers. In *High-Performance Computing in Finance: Problems, Methods, and Solutions*, 2018-01-01, p. 413-439., Registrované v: SCOPUS
- AAA12 WIMMER, Gejza - ALTMANN, G. Thesaurus of univariate discrete probability distributions. Essen : STAMM, 1999.
Citácie:
1. [1.1] ROVENCHAK, Andrij - BUK, Solomija. Part-of-Speech Sequences in Literary Text: Evidence From Ukrainian. In *JOURNAL OF QUANTITATIVE LINGUISTICS*. ISSN 0929-6174, 2018, vol. 25, no. 1, p. 1-21., Registrované v: WOS
2. [1.1] STACHOWSKI, Kamil. A Report on the Distribution of Phonetic Renderings in Loanwords. In *JOURNAL OF QUANTITATIVE LINGUISTICS*. ISSN 0929-6174, 2018, vol. 25, no. 1, p. 38-52., Registrované v: WOS
3. [1.1] STASINOPOULOS, Mikis D. - RIGBY, Robert A. - DE BASTIANI, Fernanda. GAMLSS: A distributional regression approach. In *STATISTICAL MODELLING*. ISSN 1471-082X, 2018, vol. 18, no. 3-4, p. 248-273., Registrované v: WOS
4. [1.1] ZHANG, Huiming - TAN, Kai - LI, Bo. COM-negative binomial distribution: modeling overdispersion and ultrahigh zero-inflated count data. In *FRONTIERS OF MATHEMATICS IN CHINA*. ISSN 1673-3452, 2018, vol. 13, no. 4, p. 967-998., Registrované v: WOS
5. [1.2] AVCI, Esin. Flexibility of using COM-Poisson regression model for count data. In *Statistics, Optimization and Information Computing*. ISSN 2311004X, 2018, vol. 6, no. 2, p. 278-284., Registrované v: SCOPUS

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 JAKUBÍKOVÁ-STUDENOVSKÁ, Danica - PÓCS, Jozef. Monounary Algebras. 1. vydanie. Košice : Prírodovedecká Fakulta UPJŠ v Košiciach, 2009. 304 s. ISBN 978-80-7097-763-7.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
2. [1.1] HALUSKOVA, Emilia. STRONG ENDOMORPHISM KERNEL PROPERTY FOR MONOUNARY ALGEBRAS. In *MATHEMATICA BOHEMICA*. ISSN 0862-7959, 2018, vol. 143, no. 2, p. 161-171., Registrované v: WOS
3. [1.1] RASSTRIGIN, A. L. On Categorical Equivalence Between Formations of Monounary Algebras. In *LOBACHEVSKII JOURNAL OF MATHEMATICS*. ISSN 1995-0802, 2018, vol. 39, no. 1, p. 138-141., Registrované v: WOS
- AAB02 KOCHOL, Martin. Superposition, Snarks and Flows. Žilina : EDIS - vydavateľstvo Žilinskej univerzity, 2009. 123 s. ISBN 978-80-554-0082-2.
Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS

AAB03 WIMMER, Gejza. Štatistické metódy v pedagogike. Hradec Králove : GAUDEAMUS, 1993. 154 s.

Citácie:

1. [1.2] *BUDINSKÁ, Lucia - MAYEROVÁ, Karolína - WINCZER, Michal. Gender differences in graph tasks Do they exist in high school bebras categories too? In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018-01-01, 11169 LNCS, p. 295-306., Registrované v: SCOPUS*
2. [2.2] *JANIGA, Ivan - GABKOVÁ, Jana. Generalized linear model with software mathematica®. In 17th Conference on Applied Mathematics, APLIMAT 2018 Proceedings, 2018-February, p. 525-534., Registrované v: SCOPUS*

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

ABA01 KORBAŠ, Július. Distributions, vector distributions, and immersions of manifolds in Euclidean spaces. In Handbook of Global Analysis. - Amsterdam, The Netherlands : Elsevier, 2007, s. 667-726. ISBN 978-0-444-52833-9.

Citácie:

1. [1.1] *DSOUZA, Raisa. On the Topology of Real Bott Manifolds. In INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS. ISSN 0019-5588, 2018, vol. 49, no. 4, p. 743-763., Registrované v: WOS*

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIČ, Marián. Parallel block-Jacobi SVD methods. In High-Performance Scientific Computing : algorithms and Applications. - New York : Springer-Verlag, 2012, s. 185-197. ISBN 978-1-4471-2436-8.

Citácie:

1. [1.1] *DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, pp. 808-865., Registrované v: WOS*
2. [1.1] *GATES, Mark - TOMOV, Stanimire - DONGARRA, Jack. Accelerating the SVD two stage bidiagonal reduction and divide and conquer using GPUs. In PARALLEL COMPUTING. ISSN 0167-8191, 2018, vol. 74, no., pp. 3-18., Registrované v: WOS*

ABC02 BOSÁK, Juraj - ROSA, A. - ZNÁM, Š. On the decomposition of complete graphs into factors with given diameters. In Theory of Graphs, Proceedings of Colloquium, Tihany, 1966. - New York : Academic Press, 1968, s. 37-66.

Citácie:

1. [1.1] *DANKELMANN, Peter - GUO, Yubao - SURMACS, Michel. Oriented diameter of graphs with given maximum degree. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 88, no. 1, p. 5-17., Registrované v: WOS*

ABC03 DVUREČENSKIĽ, Anatolij. New quantum structures. In Handbook of Quantum Logic and Quantum Structures. - Amsterdam, The Netherlands : Elsevier B.V., 2007, s. 1-53. ISBN 978-0-444-52870-4.

Citácie:

1. [1.1] AVALLONE, Anna. An Aumann-Shapley type operator in Pseudo-D-lattices. In RICERCHE DI MATEMATICA. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 413-432., Registrované v: WOS
- ABC04 RIEČAN, Beloslav. Analysis of fuzzy logic models. In Intelligent systems. - INTECH, 2012, s. 219-244. ISBN 978-953-51-0054-6.
- Citácie:
1. [1.2] BARTKOVÁ, Renáta - ČUNDERLÍKOVÁ, Katarína. About fisher-tippett-gnedenko theorem for intuitionistic fuzzy events. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018, vol. 641, p. 125-135., Registrované v: SCOPUS
- ABC05 RIEČAN, Beloslav - MUNDICI, D. Probability on MV-algebras. In Handbook of Measure Theory, Volume II. - Amsterdam : Elsevier Science, 2002, s. 869-909. ISBN 978-0-444-50263-6.
- Citácie:
1. [1.1] DVURECENSKIJ, Anatolij. RIESZ SPACE-VALUED STATES ON PSEUDO MV-ALGEBRAS. In JOURNAL OF APPLIED LOGICS-IFCOLOG JOURNAL OF LOGICS AND THEIR APPLICATIONS. ISSN 2055-3706, 2018, vol. 5, no. 8, pp. 1723-1764., Registrované v: WOS
 2. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 4, pp., Registrované v: WOS
 3. [1.1] POVAZAN, Jaroslav. Strong Law of Large Numbers on D-posets. In UNCERTAINTY AND IMPRECISION IN DECISION MAKING AND DECISION SUPPORT: CROSS-FERTILIZATION, NEW MODELS, AND APPLICATIONS. ISSN 2194-5357, 2018, vol. 559, no., pp. 30-35., Registrované v: WOS
- ABC06 WIMMER, Gejza - ALTMANN, G. Unified derivation of some linguistics laws. In Quantitative Linguistics, An International Handbook. - Berlin : Walter de Gruyter, 2005, s. 791-807. ISBN 978-3-11-015578-5.
- Citácie:
1. [1.1] ANDREEV, Sergey. Adnominal Valency Motifs in Sonnets. In GLOTTOMETRICS. ISSN 1617-8351, 2018, vol. 42, p. 46-55., Registrované v: WOS
 2. [1.1] ANDREEV, Sergey. Distribution of Syllables in Russian Sonnets. In GLOTTOMETRICS. ISSN 1617-8351, 2018, vol. 41, p. 13-23., Registrované v: WOS
 3. [1.1] CECH, Radek - MILICKA, Jiri - MACUTEK, Jan - KOSCOVA, Michaela - LOPATKOVA, Marketa. Quantitative Analysis of Syntactic Dependency in Czech. In QUANTITATIVE ANALYSIS OF DEPENDENCY STRUCTURES. ISSN 0179-3616, 2018, vol. 72, no., p. 53-70., Registrované v: WOS
 4. [1.1] GNATCIUC, Anastasia - GNATCHUK, Hanna. Linking Elements of German Compounds in the Texts of Technical Science. In GLOTTOMETRICS. ISSN 1617-8351, 2018, vol. 40, p. 46-50., Registrované v: WOS
 5. [1.1] MISTECKY, Michal. Counting Stylometric Properties of Sonnets: A Case Study of Machar's Letni sonety. In GLOTTOMETRICS. ISSN 1617-8351, 2018, vol. 41, p. 1-12., Registrované v: WOS
 6. [3.1] CHEN, Heng. Comparison of World Length Distributions in Spoken and Written Chinese. In OPEN ACCESS LIBRARY JOURNAL. ISSN 2333-9705, eISSN 2333-9705, 2018, vol. 5, e4660.
- ABC07 WIMMER, Gejza - ALTMANN, G. Towards a unified derivation of some linguistic laws. In Contribution to the Science of Language. Word Length Studies and Related Issues. - Berlin : Springer, 2006, s. 329-337.

Citácie:

1. [1.1] YANG, Yu - JHANG, Se-Eun. A Menzerath-Altmann Model for NP length and Complexity in Maritime English. In *GLOTTOMETRICS*. ISSN 1617-8351, 2018, vol. 40, no., p. 91-103., Registrované v: WOS

2. [3.1] COLOMA, G. Relaciones entre medidas de complejidad linguistica. In *Documentos de Trabajo, area: Linguistica y Estadística*, 2018, nro. 658. ISSN 1668-4575, eISSN 1668-4583.

ABC08 WIMMER, Gejza. The type-token relation. In *Quantitative Linguistics, An International Handbook*. - Berlin : Walter de Gruyter, 2005, s. 361-368. ISBN 978-3-11-015578-5.

Citácie:

1. [1.1] VASILEV, Alexei - VASILEVA, Ilona. Text Length and Vocabulary Size: Case of the Ukrainian Writer Ivan Franko. In *GLOTTOMETRICS*. ISSN 1617-8351, 2018, vol. 43, p. 1-10., Registrované v: WOS

2. [1.2] LAMELI, Alfred. The replacement of diminutive suffixes in the New High German period: A time series analysis in word formation. In *Journal of Historical Linguistics*. ISSN 22102116, 2018-01-01, 8, 2, p. 273-316., Registrované v: SCOPUS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ARBENZ, P. - BEČKA, Martin - GEUS, R. - HETMANIUK, U. - MENGOTTI, T. On a parallel multilevel preconditioned Maxwell eigensolver. In *Parallel Computing*, 2006, vol. 32, no. 2, s. 157-165. ISSN 0167-8191.

Citácie:

1. [1.1] DAWSON, Mark - SEVILLA, Ruben - MORGAN, Kenneth. The application of a high-order discontinuous Galerkin time-domain method for the computation of electromagnetic resonant modes. In *APPLIED MATHEMATICAL MODELLING*. ISSN 0307-904X, 2018, vol. 55, no., p. 94-108., Registrované v: WOS

ADCA02 ARCHDEACON, Dan - KOTRBČÍK, Michal - NEDELA, Roman - ŠKOVIERA, Martin. Maximum genus, connectivity, and Nebesky's Theorem. In *Ars Mathematica Contemporanea*, 2015, vol. 9, no. 1, p. 51-61. (2014: 0.741 - IF, Q2 - JCR, 1.132 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS). ISSN 1855-3966.

Citácie:

1. [1.1] LONG, Shude - REN, Han. The decycling number and maximum genus of cubic graphs. In *JOURNAL OF GRAPH THEORY*. ISSN 0364-9024, 2018, vol. 88, no. 3, p. 375-384., Registrované v: WOS

ADCA03 BALCAR, B. - VOJTÁŠ, Peter. ALMOST DISJOINT REFINEMENT OF FAMILIES OF SUBSETS OF N. In *Proceedings of the American Mathematical Society*, 1980, vol. 79, no. 3, s. 465-470. ISSN 0002-9939.

Citácie:

1. [1.1] FARKAS, Barnabas - KHOMSKII, Yurii - VIDNYANSZKY, Zoltan. Almost disjoint refinements and mixing reals. In *FUNDAMENTA MATHEMATICAE*. ISSN 0016-2736, 2018, vol. 242, no. 1, pp. 25-48., Registrované v: WOS

ADCA04 BALOGH, József - KOCHOL, Martin - PLUHÁR, András - YU, Xingxing. Covering planar graphs with forests. In *Journal of Combinatorial Theory, Series B*, 2005, vol. 94, p. 147-158. ISSN 0095-8956.

Citácie:

1. [1.1] BORODIN, O. V. - IVANOVA, A. O. - KAZAK, O. N. - VASIL';EVA, E. I. *Heights of minor 5-stars in 3-polytopes with minimum degree 5 and no vertices of degree 6 and 7. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 3, p. 825-829., Registrované v: WOS*

- ADCA05 BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting singularities in nonlinear RLC circuits. In *Nonlinear Analysis: Theory, Methods & Applications*, 2015, vol. 116, p. 26-36. (2014: 1.327 - IF, Q1 - JCR, 1.591 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0362-546X. Dostupné na internete:
<<http://www.sciencedirect.com/science/article/pii/S0362546X1400412X>>.

Citácie:

1. [1.1] ATEŞ, Muzaffer - LARIBI, Samira. *New results on the global asymptotic stability of certain nonlinear RLC circuits. In TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES. ISSN 1300-0632, 2018, vol. 26, no. 1, p. 434-441., Registrované v: WOS*

2. [1.1] LEONOR KLEIMAN, Diana - DEL ROSARIO ETCHECHOURY, Maria - PULESTON, Paul. *A Simple Method for Impasse Points Detection in Nonlinear Electrical Circuits. In MATHEMATICAL PROBLEMS IN ENGINEERING. ISSN 1024-123X, 2018, art. no. 2613890., Registrované v: WOS*

- ADCA06 BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting IK singularities and impasse points in fully nonlinear RLC circuits. In *Discrete and Continuous Dynamical Systems - Series B*, 2017, vol. 22, no. 8, p. 3043-3061. (2016: 0.994 - IF, Q2 - JCR, 0.986 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1531-3492. Dostupné na internete:
<<https://aims sciences.org/journals/pdfs.jsp?paperID=14223&mode=full>>.

Citácie:

1. [1.1] LEONOR KLEIMAN, Diana - DEL ROSARIO ETCHECHOURY, Maria - PULESTON, Paul. *A Simple Method for Impasse Points Detection in Nonlinear Electrical Circuits. In MATHEMATICAL PROBLEMS IN ENGINEERING. ISSN 1024-123X, 2018, art. no. 2613890., Registrované v: WOS*

- ADCA07 BATTELLI, Flaviano - FEČKAN, Michal. Nonsmooth homoclinic orbits, Melnikov functions and chaos in discontinuous systems. In *Physica D: Nonlinear Phenomena*, 2012, vol. 241, no. 22, p. 1962-1975. (2011: 1.594 - IF, 0.959 - SJR, karentované - CCC). (2012 - Current Contents, CC). ISSN 0167-2789.

Citácie:

1. [1.1] SHEN, Yong-Jun - WEN, Shao-Fang - YANG, Shao-Pu - GUO, Shu-Qi - LI, Lin-Ru. *Analytical threshold for chaos in a Duffing oscillator with delayed feedbacks. In INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS. ISSN 0020-7462, 2018, vol. 98, p. 173-179., Registrované v: WOS*

- ADCA08 BATTELLI, Flaviano - FEČKAN, Michal. Homoclinic trajectories in discontinuous systems. In *Journal of Dynamics and Differential Equations*, 2008, vol. 20, no. 2, p. 337-376. ISSN 1040-7294.

Citácie:

1. [1.1] WU, Tiantian - YANG, Xiao-Song. *On the existence of homoclinic orbits in n-dimensional piecewise affine systems. In NONLINEAR ANALYSIS-HYBRID SYSTEMS. ISSN 1751-570X, 2018, vol. 27, p. 366-389., Registrované v: WOS*

- ADCA09 BATTELLI, Flaviano - FEČKAN, Michal. Nonlinear RLC circuits and implicit ODEs. In *Differential and Integral Equations*, 2014, vol. 27, no. 7-8, p. 671-690. (2013: 0.542 - IF, 1.228 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0893-4983.

Citácie:

1. [1.1] *ATES, Muzafer - LARIBI, Samira. New results on the global asymptotic stability of certain nonlinear RLC circuits. In TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES. ISSN 1300-0632, 2018, vol. 26, no. 1, p. 434-441., Registrované v: WOS*
- ADCA10 BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIĆ, Marián - GRIGORI, L. On iterative QR pre-processing in the parallel block-Jacobi SVD algorithm. In *Parallel Computing*, 2010, vol. 36, s. 297-397. (2009: 1.125 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0167-8191.
- Citácie:
1. [1.1] *DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, pp. 808-865., Registrované v: WOS*
2. [1.1] *GATES, Mark - TOMOV, Stanimire - DONGARRA, Jack. Accelerating the SVD two stage bidiagonal reduction and divide and conquer using GPUs. In PARALLEL COMPUTING. ISSN 0167-8191, 2018, vol. 74, no., pp. 3-18., Registrované v: WOS*
3. [1.1] *SIQUEIRA, Robson S. - ALEXANDRE, Gilderlane R. - SOARES, Jose M. - THE, George A. P. Triaxial Slicing for 3-D Face Recognition From Adapted Rotational Invariants Spatial Moments and Minimal Keypoints Dependence. In IEEE ROBOTICS AND AUTOMATION LETTERS. ISSN 2377-3766, 2018, vol. 3, no. 4, pp. 3513-3520., Registrované v: WOS*
- ADCA11 BELTRAMETTI, E. - BUGAJSKI, S. - GUDDER, S.P. - PULMANNOVÁ, Sylvia. Convex and linear effect algebras. In *Reports on Mathematical Physics*, 1999, vol. 44, no. 3, p. 359-379. ISSN 0034-4877.
- Citácie:
1. [1.1] *DI NOLA, Antonio - LAPENTA, Serafina - LEUSTEAN, Ioana. An analysis of the logic of Riesz spaces with strong unit. In ANNALS OF PURE AND APPLIED LOGIC. ISSN 0168-0072, 2018, vol. 169, no. 3, p. 216-234., Registrované v: WOS*
- ADCA12 BOKAL, D. - CZABARKA, E. - SZEKELY, L.A. - VRŤO, Imrich. General lower bounds for the minor crossing number of graphs. In *Discrete and Computational Geometry*, 2010, vol. 44, p. 463-483. (2009: 0.935 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0179-5376.
- Citácie:
1. [1.2] *SCHAEFER, Marcus. The graph crossing number and its variants: A survey. In Electronic Journal of Combinatorics, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS*
- ADCA13 BORZOOEI, R.A. - DVUREČENSKIJ, Anatolij - ZAHIRI, Omid. State BCK-algebras and state-morphism BCK-algebras. In *Fuzzy Sets and Systems*, 2014, vol. 244, p. 86-105. (2013: 1.880 - IF, 1.439 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0165-0114.
- Citácie:
1. [1.1] *CHENG, Xiao Yun - XIN, Xiao Long - HE, Peng Fei. Generalized state maps and states on pseudo equality algebras. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, p. 133-148., Registrované v: WOS*
2. [1.1] *CIUNGU, Lavinia Corina. Commutative deductive systems of pseudo-BCK-algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS*

3. [1.1] CIUNGU, Lavinia Corina. State Pseudo-equality Algebras. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 30, no. 4-6, p. 573-613., Registrované v: WOS
 4. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. State maps on semihoops. In *OPEN MATHEMATICS*. ISSN 2391-5455, 2018, vol. 16, p. 1061-1076., Registrované v: WOS
 5. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
 6. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA14 BOSÁK, Juraj - KOTZIG, A. - ZNÁM, Š. Strongly geodetic graphs. In *Journal of Combinatorial Theory*, 1968, vol. 5, p. 170-176. ISSN 0095-8956.
- Citácie:
1. [1.1] QIAO, Pu - ZHAN, Xingzhi. The maximum girth and minimum circumference of graphs with prescribed radius and diameter. In *DISCRETE MATHEMATICS*. ISSN 0012-365X, 2018, vol. 341, no. 10, p. 2827-2830., Registrované v: WOS
 2. [1.2] MILLER, Mirka. Moore graphs and beyond: A survey of the degree/diameter problem. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys., Registrované v: SCOPUS
- ADCA15 BOTUR, M. - DVUREČENSKIĽ, Anatolij. On pseudo-BL-algebras and pseudo-hoops with normal maximal filters. In *Soft Computing*, 2016, vol. 20, no.2, p. 439-448. (2015: 1.630 - IF, Q2 - JCR, 0.724 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <<http://link.springer.com/article/10.1007/s00500-015-1793-3>>.
- Citácie:
1. [1.1] NIA, B. Barani - SAEID, A. Borumand. Classes of pseudo BL-algebras with right Boolean lifting property. In *TRANSACTIONS OF A RAZMADZE MATHEMATICAL INSTITUTE*. ISSN 2346-8092, 2018, vol. 172, no. 2, p. 146-163., Registrované v: WOS
 2. [1.1] NIA, B. Barani - SAEID, A. Borumand. Study of Pseudo BL-Algebras in View of Left Boolean Lifting Property. In *APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL*. ISSN 1932-9466, 2018, vol. 13, no. 1, p. 354-380., Registrované v: WOS
 3. [1.1] WANG, Juntao - XIN, Xiaolong - HE, Pengfei. Monadic bounded hoops. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 6, p. 1749-1762., Registrované v: WOS
- ADCA16 BOTUR, Michal - DVUREČENSKIĽ, Anatolij - KOWALSKI, T. On normal-valued basic pseudo hoops. In *Soft Computing*, 2012, vol. 16, p. 635-644. (2011: 1.880 - IF, 0.892 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1432-7643.
- Citácie:
1. [1.1] WANG, Juntao - XIN, Xiaolong - HE, Pengfei. Monadic bounded hoops. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 6, p. 1749-1762., Registrované v: WOS
- ADCA17 BOTUR, Michal - DVUREČENSKIĽ, Anatolij. State-morphism algebras - General approach. In *Fuzzy Sets and Systems*, 2013, vol. 218, p. 90-102. (2012: 1.749 - IF, 1.617 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0165-0114.

Citácie:

1. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. State maps on semihoops. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, p. 1061-1076., Registrované v: WOS

2. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS

ADCA18 BRZOZOWSKI, J. A. - JIRÁSKOVÁ, Galina - ZOU, Ch. Quotient Complexity of Closed Languages. In Theory of Computing Systems, 2014, vol. 54, no. 2, p. 277-292. (2013: 0.452 - IF, 0.730 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1432-4350.

Citácie:

1. [1.1] DAVIES, Sylvie. A New Technique for Reachability of States in Concatenation Automata. In DESCRIPTONAL COMPLEXITY OF FORMAL SYSTEMS, DCFS 2018. ISSN 0302-9743, 2018, vol. 10952, no., p. 75-87., Registrované v: WOS

ADCA19 BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LI, Baiyu. Quotient complexity of ideal languages. In Theoretical Computer Science, 2013, vol. 470, p. 36-52. (2012: 0.489 - IF, 0.844 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-3975.

Citácie:

1. [1.1] DAVIES, Sylvie. A New Technique for Reachability of States in Concatenation Automata. In DESCRIPTONAL COMPLEXITY OF FORMAL SYSTEMS, DCFS 2018. ISSN 0302-9743, 2018, vol. 10952, no., p. 75-87., Registrované v: WOS

2. [1.1] DAVIES, Sylvie. Primitivity, Uniform Minimality, and State Complexity of Boolean Operations. In THEORY OF COMPUTING SYSTEMS. ISSN 1432-4350, 2018, vol. 62, no. 8, p. 1952-2005., Registrované v: WOS

3. [1.1] RODARO, Emanuele. Strongly connected synchronizing automata and the language of minimal reset words. In ADVANCES IN APPLIED MATHEMATICS. ISSN 0196-8858, 2018, vol. 99, p. 158-173., Registrované v: WOS

ADCA20 BUHAGIAR, D. - CHETCUTI, Emmanuel - DVUREČENSKIJ, Anatolij. On Gleason's theorem without Gleason. In Foundations of Physics, 2009, vol. 39, p. 550-558. (2008: 0.829 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0015-9018.

Citácie:

1. [1.1] HOLIK, Federico - SERGIOLI, Giuseppe - FREYTES, Hector - PLASTINO, Angelo. Pattern Recognition in Non-Kolmogorovian Structures. In FOUNDATIONS OF SCIENCE. ISSN 1233-1821, 2018, vol. 23, no. 1, p. 119-132., Registrované v: WOS

ADCA21 BUTKA, P. - PÓCS, Jozef - PÓCSOVÁ, J. Representation of fuzzy concept lattices in the framework of classical FCA. In Journal of Applied Mathematics, 2013, vol. 2013, art. no. 236725, p. 1-7. (2012: 1.041 - IF, 0.552 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-8936.

Citácie:

1. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In Studies in Computational Intelligence. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS

- ADCA22 BUTKA, P. - PÓCS, Jozef - PÓCSOVÁ, J. On equivalence of conceptual scaling and generalized one-sided concept lattices. In *Information Sciences*, 2014, vol. 259, p. 57-70. (2013: 3.893 - IF, 2.332 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0020-0255.
Citácie:
1. [1.1] SINGH, Prem Kumar. *m-polar fuzzy graph representation of concept lattice*. In *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*. ISSN 0952-1976, 2018, vol. 67, p. 52-62., Registrované v: WOS
2. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. *On fuzzy generalizations of concept lattices*. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS
3. [1.2] SINGH, Prem Kumar - KUMAR, Aswani. *Attribute implications in data with fuzzy attributes using armstrong axioms*. In *2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017*, 2018, p. 637-641., Registrované v: SCOPUS
- ADCA23 CASERTA, A. - DI MAIO, G. - HOLÁ, Ľubica. Arzela's theorem and strong uniform convergence on bornologies. In *Journal of Mathematical Analysis and Applications*, 2010, vol. 371, p. 384-392. (2009: 1.225 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0022-247X.
Citácie:
1. [1.1] GEORGIU, Dimitrios N. - MEGARITIS, Athanasios C. - OZCAG, Selma. *Statistical convergence of sequences of functions with values in semi-uniform spaces*. In *COMMENTATIONES MATHEMATICAE UNIVERSITATIS CAROLINAE*. ISSN 0010-2628, 2018, vol. 59, no. 1, p. 103-117., Registrované v: WOS
- ADCA24 CIUNGU, L. - RIEČAN, Beloslav. Representation theorem for probabilities on IFS-events. In *Information Sciences*, 2010, vol. 180, no. 5, p. 793-798. (2009: 3.291 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0020-0255.
Citácie:
1. [1.1] HAO, Zhinan - XU, Zeshui - ZHAO, Hua - FUJITA, Hamido. *A Dynamic Weight Determination Approach Based on the Intuitionistic Fuzzy Bayesian Network and Its Application to Emergency Decision Making*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 4, p. 1893-1907., Registrované v: WOS
2. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2471-2483., Registrované v: WOS
- ADCA25 CIUNGU, L.C. - DVUREČENSKIJ, Anatolij - HYČKO, Marek. State BL-algebras. In *Soft Computing*, 2011, vol. 15, no. 4, p. 619-634. (2010: 1.512 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1432-7643.
Citácie:
1. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. *State maps on semihoops*. In *OPEN MATHEMATICS*. ISSN 2391-5455, 2018, vol. 16, p. 1061-1076., Registrované v: WOS
2. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. *Involutive Monoidal T-norm Based Algebras with Internal States*. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 5-6, p. 531-565., Registrované v: WOS

3. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
 4. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
 5. [1.1] ZHAO, Bin - HE, Pengfei. On Non-commutative Residuated Lattices With Internal States. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1387-1400., Registrované v: WOS
 6. [1.2] LIU, Hongxing. Strong tensor non-commutative residuated lattices. In *IAENG International Journal of Applied Mathematics*. ISSN 19929978, 2018, vol. 48, no. 1, p. 22-27., Registrované v: SCOPUS
 7. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA26 CIUNGU, L.C. - DVUREČENSKIJ, Anatolij. Measures, states and de Finetti maps on pseudo-BCK algebras. In *Fuzzy Sets and Systems*, 2010, vol. 161, p. 2870-2896. (2009: 2.138 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0165-0114.
Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
 2. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA27 CLOTE, P. - DOBREV, Stefan - DOTU, I. - KRANAKIS, E. - KRIZANC, D. - URRUTIA, J. On the page number of RNA secondary structures with pseudoknots. In *Journal of Mathematical Biology*, 2012, vol. 65, no. 6-7, p. 1337-1357. (2011: 2.963 - IF, 1.222 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0303-6812.
Citácie:
1. [1.1] DANAEE, Padideh - ROUCHES, Mason - WILEY, Michelle - DENG, Dezhong - HUANG, Liang - HENDRIX, David. bpRNA: large-scale automated annotation and analysis of RNA secondary structure. In *NUCLEIC ACIDS RESEARCH*. ISSN 0305-1048, 2018, vol. 46, no. 11, p. 5381-5394., Registrované v: WOS
- ADCA28 CONDER, M. - NEDELA, Roman. A refined classification of symmetric cubic graphs. In *Journal of Algebra*, 2009, vol. 322, s. 722-740. (2008: 0.630 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0021-8693.
Citácie:
1. [1.1] BRAIC, Snjeana - MANDIC, Josko - VUCICIC, Tanja. Flag-transitive block designs with automorphism group $S_n \wr S_2$. In *DISCRETE MATHEMATICS*. ISSN 0012-365X, 2018, vol. 341, no. 8, p. 2220-2230., Registrované v: WOS
- ADCA29 CZABARKA, E. - SÝKORA, O. - SZÉKELY, L.A. - VRŤO, Imrich. Biplanar crossing numbers. II. Comparing crossing numbers and biplanar crossing numbers using the probabilistic method. In *Random Structures and Algorithms*, 2008, vol. 33, p. 480-496. ISSN 1042-9832.
Citácie:
1. [1.2] PACH, János. Geometric graph theory. In *Handbook of Discrete and Computational Geometry, Third Edition*, 2017, p. 257-279., Registrované v: SCOPUS

2. [1.2] SCHAEFFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA30 DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Complex dynamics, hidden attractors and continuous approximation of a fractional-order hyperchaotic PWC system. In *Nonlinear Dynamics*, 2018, vol. 91, no. 4, p. 2523-2540. (2017: 4.339 - IF, Q1 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0924-090X. Dostupné na internete:
<<https://link.springer.com/content/pdf/10.1007%2Fs11071-017-4029-5.pdf>>.
Citácie:
1. [1.1] BOUROUBA, Bachir - LADACI, Samir. *Robust Fuzzy Adaptive Sliding Mode Stabilization for Fractional-Order Chaos*. In *ALGORITHMS*. ISSN 1999-4893, 2018, vol. 11, no. 7, art. no. 101., Registrované v: WOS
2. [1.1] MORALES-DELGADO, V. F. - GOMEZ-AGUILAR, J. F. - ESCOBAR-JIMENEZ, R. F. *Fractional conformable attractors with low fractality*. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 16, p. 6378-6400., Registrované v: WOS
3. [1.1] STANKEVICH, Nataliya - VOLKOV, Evgeny. *Multistability in a three-dimensional oscillator: tori, resonant cycles and chaos*. In *NONLINEAR DYNAMICS*. ISSN 0924-090X, 2018, vol. 94, no. 4, p. 2455-2467., Registrované v: WOS
- ADCA31 DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Fractional-order PWC systems without zero Lyapunov exponents. In *Nonlinear Dynamics*, 2018, vol. 92, no. 3, p. 1061-1078. (2017: 4.339 - IF, Q1 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0924-090X. Dostupné na internete:
<<https://link.springer.com/content/pdf/10.1007%2Fs11071-018-4108-2.pdf>>.
Citácie:
1. [1.1] BOUROUBA, Bachir - LADACI, Samir. *Robust Fuzzy Adaptive Sliding Mode Stabilization for Fractional-Order Chaos*. In *ALGORITHMS*. ISSN 1999-4893, 2018, vol. 11, no. 7, art. no. 101., Registrované v: WOS
- ADCA32 DANCA, Marius-F. - FEČKAN, Michal - KUZNETSOV, Nikolay V. - CHEN, Guanrong. Looking more closely at the Rabinovich-Fabrikant system. In *International Journal of Bifurcation and Chaos*, 2016, vol. 26, no. 2, art. no. 1650038 [p. 1-21]. (2015: 1.355 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0218-1274.
Citácie:
1. [1.1] BELOZYOROV, Vasilii Ye. *On novel conditions of chaotic attractors existence in autonomous polynomial dynamical systems*. In *NONLINEAR DYNAMICS*. ISSN 0924-090X, 2018, vol. 91, no. 4, p. 2435-2452., Registrované v: WOS
2. [1.1] LAI, Bang-Cheng - HE, Jian-Jun. *Dynamic analysis, circuit implementation and passive control of a novel four-dimensional chaotic system with multiscroll attractor and multiple coexisting attractors*. In *PRAMANA-JOURNAL OF PHYSICS*. ISSN 0304-4289, 2018, vol. 90, no. 3, art. no. 33., Registrované v: WOS
3. [1.1] LAI, Qiang - NESTOR, Tsafack - KENGNE, Jacques - ZHAO, Xiao-Wen. *Coexisting attractors and circuit implementation of a new 4D chaotic system with two equilibria*. In *CHAOS SOLITONS & FRACTALS*. ISSN 0960-0779, 2018, vol. 107, p. 92-102., Registrované v: WOS

4. [1.1] WANG, Long - DING, Mei. *Dynamical analysis and passive control of a new 4D chaotic system with multiple attractors*. In MODERN PHYSICS LETTERS B. ISSN 0217-9849, 2018, vol. 32, no. 22, art. no. 1850260., Registrované v: WOS
 5. [1.1] WANG, Long - DING, Mei. *GENERATION OF CHAOTIC SYSTEMS WITH DIFFERENT NUMBER OF EQUILIBRIA*. In ACTA PHYSICA POLONICA B. ISSN 0587-4254, 2018, vol. 49, no. 7, p. 1483-1495., Registrované v: WOS
- ADCA33 DANCA, Marius-F. - FEČKAN, Michal - CHEN, Guanrong. Impulsive stabilization of chaos in fractional-order systems. In Nonlinear Dynamics, 2017, vol. 89, no. 3, p. 1889-1903. (2016: 3.464 - IF, Q1 - JCR, 1.167 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0924-090X.
- Citácie:
1. [1.1] HAMED, Esraa M. - ABDELATY, Amr M. - SAID, Lobna A. - RADWAN, Ahmed G. *Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design*. In CIRCUITS SYSTEMS AND SIGNAL PROCESSING. ISSN 0278-081X, 2018, vol. 37, no. 12, p. 5222-5252., Registrované v: WOS
 2. [1.1] LUO, Runzi - SU, Haipeng. *The stability of impulsive incommensurate fractional order chaotic systems with Caputo derivative*. In CHINESE JOURNAL OF PHYSICS. ISSN 0577-9073, 2018, vol. 56, no. 4, p. 1599-1608., Registrované v: WOS
- ADCA34 DANCA, Marius-F. - FEČKAN, Michal - ROMERA, Miguel. Generalized form of Parrondo's paradoxical game with applications to chaos control. In International Journal of Bifurcation and Chaos, 2014, vol. 24, no. 1, art. no. 1450008. (2013: 1.017 - IF, 0.678 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0218-1274.
- Citácie:
1. [1.1] CHEONG, Kang Hao - TAN, Zong Xuan - LING, Yan Hao. *A time-based switching scheme for nomadic-colonial alternation under noisy conditions*. In COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION. ISSN 1007-5704, 2018, vol. 60, p. 107-114., Registrované v: WOS
 2. [1.1] KOH, Jin Ming - XIE, Neng-gang - CHEONG, Kang Hao. *Nomadic-colonial switching with stochastic noise: subsidence-recovery cycles and long-term growth*. In NONLINEAR DYNAMICS. ISSN 0924-090X, 2018, vol. 94, no. 2, p. 1467-1477., Registrované v: WOS
- ADCA35 DANČÍK, Vladimír - SEILER, Kathlen Petri - YOUNG, Damian W. - SCHREIBER, Stuart L. - CLEMONS, Paul A. Distinct Biological Network Properties between the Targets of Natural Products and Disease Genes. In Journal of the American Chemical Society, 2010, vol. 132, no. 27, p. 9259-9261. (2009: 8.580 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0002-7863.
- Citácie:
1. [1.1] ALI, Rania S. - SAAD, Hosam A. *Synthesis of Some Novel Fused Pyrimido[4';5';5';6']-[1,2,4]triazino[3';4';3,4][1,2,4]triazino[5,6-b]indoles with Expected Anticancer Activity*. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 3, art. no. 693., Registrované v: WOS
 2. [1.1] JAIN, Bhushan - RAJ, Utkarsh - VARADWAJ, Pritish Kumar. *Drug Target Interplay: A Network-based Analysis of Human Diseases and the Drug Targets*. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2018, vol. 18, no. 13, p. 1053-1061., Registrované v: WOS

3. [1.1] KHAN, Haroon - MARYA - AMIN, Surriya - KAMAL, Mohammad Amjad - PATEL, Seema. *Flavonoids as acetylcholinesterase inhibitors: Current therapeutic standing and future prospects*. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 101, p. 860-870., Registrované v: WOS
 4. [1.1] LARAIA, Luca - ROBKE, Lucas - WALDMANN, Herbert. *Bioactive Compound Collections: From Design to Target Identification*. In *CHEM*. ISSN 2451-9294, 2018, vol. 4, no. 4, p. 705-730., Registrované v: WOS
 5. [1.1] ZHANG, Chi - ZHOU, Wei - GUAN, Dao-Gang - WANG, Yong-Hua - LU, Ai-Ping. *Network Intervention, a Method to Address Complex Therapeutic Strategies*. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2018, vol. 9, art. no. 754., Registrované v: WOS
 6. [1.2] LARAIA, Luca - WALDMANN, Herbert. *Natural product inspired compound collections: evolutionary principle, chemical synthesis, phenotypic screening, and target identification*. In *Drug Discovery Today: Technologies*, 2017, vol. 23, p. 75-82., Registrované v: SCOPUS
- ADCA36 DANČÍK, Vladimír - CARREL, H. - BODYCOMBE, N.E. - SEILER, K.P. - FOMINA-YADLIN, D. - KUBICEK, S.T. - HARTWELL, K. - SHAMJI, A.F. - WAGNER, B. K. - CLEMONS, P.A. *Connecting Small Molecules with Similar Assay Performance Profiles Leads to New Biological Hypotheses*. In *Journal of Biomolecular Screening*, 2014, vol. 19, no. 5, p. 771-781. (2013: 2.012 - IF, 0.966 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1087-0571.
- Citácie:
1. [1.1] PARICHARAK, Shardul - MENDEZ-LUCIO, Oscar - RAVINDRANATH, Aakash Chavan - BENDER, Andreas - IJZERMAN, Adriaan P. - VAN WESTEN, Gerard J. P. *Data-driven approaches used for compound library design, hit triage and bioactivity modeling in high-throughput screening*. In *BRIEFINGS IN BIOINFORMATICS*. ISSN 1467-5463, 2018, vol. 19, no. 2, p. 277-285., Registrované v: WOS
- ADCA37 DANČÍK, Vladimír. *Complexity of Boolean functions over bases with unbounded fan-in gates*. In *Information Processing Letters*, 1996, vol. 57, no. 1, s. 31-34. ISSN 0020-0190.
- Citácie:
1. [3.1] Sergeev Igor Sergeevich. *On the complexity of bounded depth unbounded fan-in circuits and formulae*. In *Discrete Mathematics and Applications*, ISSN 0924-9265, Vol. 30, no. 2, p.p. 120-137
- ADCA38 DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. *Nonexistence of periodic solutions and S-asymptotically periodic solutions in fractional difference equations*. In *Applied Mathematics and Computation*, 2015, vol. 257, p. 230-240. (2014: 1.551 - IF, Q1 - JCR, 0.976 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0096-3003.
- Citácie:
1. [1.1] LI, Weinian - SHENG, Weihong - ZHANG, Pingping. *OSCILLATORY PROPERTIES OF CERTAIN NONLINEAR FRACTIONAL NABLA DIFFERENCE EQUATIONS*. In *JOURNAL OF APPLIED ANALYSIS AND COMPUTATION*. ISSN 2156-907X, 2018, vol. 8, no. 6, p. 1910-1918., Registrované v: WOS
- ADCA39 DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. *On the new control functions for linear discrete delay systems*. In *SIAM Journal on Control and Optimization*, 2014, vol. 52, no. 3, p. 1745-1760. (2013: 1.389 - IF, 1.866 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0363-0129.

Citácie:

1. [1.1] CAO, Xiaokai - WANG, JinRong. Finite-time stability of a class of oscillating systems with two delays. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, p. 4943-4954., Registrované v: WOS
2. [1.1] LI, Mengmeng - DEBBOUCHE, Amar - WANG, JinRong. Relative controllability in fractional differential equations with pure delay. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 18, p. 8906-8914., Registrované v: WOS
3. [1.1] LI, Mengmeng - WANG, JinRong. Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, p. 254-265., Registrované v: WOS
4. [1.1] LIANG, Chengbin - WANG, JinRong - O'; REGAN, D. Representation of a solution for a fractional linear system with pure delay. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 77, p. 72-78., Registrované v: WOS
5. [1.1] LIANG, Chengbin - WANG, JinRong - SHEN, Dong. Iterative learning control for linear discrete delay systems via discrete matrix delayed exponential function approach. In *JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS*. ISSN 1023-6198, 2018, vol. 24, no. 11, p. 1756-1776., Registrované v: WOS
6. [1.1] LIANG, Chengbin - WANG, JinRong. Analysis of iterative learning control for an oscillating control system with two delays. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 6, p. 1757-1765., Registrované v: WOS
7. [1.1] LUO, Zijian - XIONG, Wenjun - YU, Xinghuo. Consensus Tracking in Multi-Node Systems Using Iterative Learning Control Based on Delay Exponential Matrix. In *UNMANNED SYSTEMS*. ISSN 2301-3850, 2018, vol. 6, no. 3, p. 209-219., Registrované v: WOS
8. [1.1] MAHMUDOV, N. Representation of solutions of discrete linear delay systems with non permutable matrices. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, p. 8-14., Registrované v: WOS
9. [1.1] WANG, JinRong - LUO, Zijian - SHEN, Dong. Iterative learning control for linear delay systems with deterministic and random impulses. In *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS*. ISSN 0016-0032, 2018, vol. 355, no. 5, p. 2473-2497., Registrované v: WOS
10. [1.1] YOU, Zhongli - WANG, JinRong - O'; REGAN, D. Asymptotic stability of solutions of impulsive multi-delay differential equations. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 15, p. 4143-4152., Registrované v: WOS
11. [1.1] YOU, Zhongli - WANG, JinRong. Stability of impulsive delay differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 253-268., Registrované v: WOS
12. [1.1] ZHU, Jingwen - SUN, Jitao. Stability and Exponential Stability of Complex-valued Discrete Linear Systems with Delay. In *INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS*. ISSN 1598-6446, 2018, vol. 16, no. 3, p. 1030-1037., Registrované v: WOS

13. [1.1] ZHU, Jingwen - SUN, Jitao. *Stability of quaternion-valued impulsive delay difference systems and its application to neural networks*. In *NEUROCOMPUTING*. ISSN 0925-2312, 2018, vol. 284, p. 63-69., Registrované v: WOS
- ADCA40 DI NOLA, A. - DVUREČENSKIJ, Anatolij - LETTIERI, A. Erratum "State-morphism MV-algebras" [Ann. Pure Appl. Logic 161 (2009) 161-173]. In *Annals of Pure and Applied Logic*, 2010, vol. 161, s. 1605-1607. (2009: 0.667 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0168-0072.
Citácie:
1. [1.1] CIUNGU, Lavinia Corina. *Commutative deductive systems of pseudo-BCK-algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS
2. [1.1] CIUNGU, Lavinia Corina. *State Pseudo-equality Algebras*. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 30, no. 4-6, p. 573-613., Registrované v: WOS
- ADCA41 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - LETTIERI, Ada. On varieties of MV-algebras with internal states. In *International Journal of Approximate Reasoning*, 2010, vol. 51, p. 680-694. (2009: 2.090 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0888-613X.
Citácie:
1. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. *Involutive Monoidal T-norm Based Algebras with Internal States*. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 5-6, p. 531-565., Registrované v: WOS
2. [1.1] ZHAO, Bin - HE, Pengfei. *On Non-commutative Residuated Lattices With Internal States*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1387-1400., Registrované v: WOS
- ADCA42 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - HYČKO, Marek - MANARA, Corrado. Entropy on effect algebras with the Riesz decomposition property II: MV-algebras. In *Kybernetika*, 2005, roč. 41, č. 2, s. 161-176. (2004: 0.224 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0023-5954.
Citácie:
1. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., Registrované v: WOS
2. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS
3. [1.1] MARKECHOVA, Dagmar - RIECAN, Beloslav. *Renyi Entropy and Renyi Divergence in Product MV-Algebras*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 8, art. no. 587., Registrované v: WOS
4. [1.1] MARKECHOVA, Dagmar - RIECAN, Beloslav. *Tsallis Entropy of Product MV-Algebra Dynamical Systems*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 8, art. no. 589., Registrované v: WOS
5. [1.2] MARKECHOVÁ, Dagmar - EBRAHIMZADEH, Abolfazl. *R-norm entropy and R-norm divergence in product MV-algebras*. In *Soft Computing*. ISSN 14327643, 2018-01-01, pp., Registrované v: SCOPUS

- ADCA43 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - HYČKO, Marek - MANARA, Corrado. Entropy on effect algebras with the Riesz decomposition property I: Basic properties. In *Kybernetika*, 2005, roč. 41, č. 2, s. 143-160. (2004: 0.224 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0023-5954.
- Citácie:
1. [1.1] GISKI, Zahra Eslami - EBRAHIMZADEH, Abolfazl - MARKECHOVA, Dagmar. Logical entropy on effect algebras with the Riesz decomposition property. In *EUROPEAN PHYSICAL JOURNAL PLUS*. ISSN 2190-5444, 2018, vol. 133, no. 7, art. no. 286., Registrované v: WOS
 2. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., Registrované v: WOS
 3. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS
- ADCA44 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij. State-morphism MV-algebras. In *Annals of Pure and Applied Logic*, 2009, vol. 161, p. 161-173. (2008: 0.551 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0168-0072.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
 2. [1.1] CIUNGU, Lavinia Corina. Commutative deductive systems of pseudo-BCK-algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS
 3. [1.1] CIUNGU, Lavinia Corina. State Pseudo-equality Algebras. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 30, no. 4-6, p. 573-613., Registrované v: WOS
 4. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. Involutive Monoidal T-norm Based Algebras with Internal States. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 5-6, p. 531-565., Registrované v: WOS
 5. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
 6. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
 7. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA45 DJIDJEV, H.N. - VRŤO, Imrich. Planar crossing numbers of graphs of bounded genus. In *Discrete and Computational Geometry*, 2012, vol. 48, p. 393-415. (2011: 0.938 - IF, 0.993 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0179-5376.
- Citácie:
1. [1.2] SCHAEFER, Marcus. The graph crossing number and its variants: A survey. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS

- ADCA46 DOBREV, Stefan - KRÁLOVIČ, Rastislav - KRÁLOVIČ, Richard. Advice complexity of maximum independent set in sparse and bipartite graphs. In *Theory of Computing Systems*, 2015, vol. 56, no. 1, p. 197-219. (2014: 0.533 - IF, Q3 - JCR, 0.670 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1432-4350.
- Citácie:
- [1.1] *BIANCHI, Maria Paola - BOCKENHAUER, Hans-Joachim - BRULISAUER, Tatjana - KOMM, Dennis - PALANO, Beatrice. Online Minimum Spanning Tree with Advice. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2018, vol. 29, no. 4, p. 505-527., Registrované v: WOS*
- ADCA47 DOBREV, Stefan - DUROCHER, Stephane - EFTEKHARI, Mohsen - GEORGIOU, Konstantinos - KRANAKIS, E. Complexity of barrier coverage with relocatable sensors in the plane. In *Theoretical Computer Science*, 2015, vol. 579, p. 64-73. (2014: 0.657 - IF, Q3 - JCR, 0.708 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-3975. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0304397515001036>>.
- Citácie:
- [1.1] *HUANG, Peihuang - ZHU, Wenxing - LIAO, Kewen - SELLIS, Timos - YU, Zhiyong - GUO, Longkun. Efficient Algorithms for Flexible Sweep Coverage in Crowdsensing. In IEEE ACCESS. ISSN 2169-3536, 2018, vol. 6, no., p. 50055-50065., Registrované v: WOS*
 - [1.1] *IZUMI, Taisuke - KAINO, Daichi - POTOP-BUTUCARU, Maria Gradinariu - TIXEUIL, Sebastien. On time complexity for connectivity-preserving scattering of mobile robots. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, 2018, vol. 738, no., p. 42-52., Registrované v: WOS*
 - [1.1] *ZHANG, Zhao - WU, Weili - YUAN, Jing - DU, Ding-Zhu. Breach-Free Sleep-Wakeup Scheduling for Barrier Coverage With Heterogeneous Wireless Sensors. In IEEE-ACM TRANSACTIONS ON NETWORKING. ISSN 1063-6692, 2018, vol. 26, no. 5, p. 2404-2413., Registrované v: WOS*
 - [1.1] *ZHAO, Lu - BAI, Guangwei - SHEN, Hang - TANG, Zhenmin. Strong barrier coverage of directional sensor networks with mobile sensors. In INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS. ISSN 1550-1477, 2018, vol. 14, no. 2., Registrované v: WOS*
- ADCA48 DOBREV, Stefan - FLOCCHINI, Paola - KRÁLOVIČ, Rastislav - SANTORO, Nicola. Exploring an unknown dangerous graph using tokens. In *Theoretical Computer Science*, 2013, vol. 472, p. 28-45. (2012: 0.489 - IF, 0.844 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-3975.
- Citácie:
- [1.1] *D'EMIDIO, Mattia - DI STEFANO, Gabriele - FRIGIONI, Daniele - NAVARRA, Alfredo. Characterizing the computational power of mobile robots on graphs and implications for the Euclidean plane. In INFORMATION AND COMPUTATION. ISSN 0890-5401, 2018, vol. 263, no., p. 57-74., Registrované v: WOS*
 - [1.1] *PENG, Mengfei - SHI, Wei - CORRIVEAU, Jean-Pierre. Repairing Faulty Nodes and Locating a Dynamically Spawned Black Hole Search Using Tokens. In 2018 IEEE CONFERENCE ON COMMUNICATIONS AND NETWORK SECURITY (CNS). ISSN 2474-025X, 2018., Registrované v: WOS*
- ADCA49 DOBREV, Stefan - KRÁLOVIČ, R. - PARDUBSKÁ, D. Measuring the problem-relevant information in input. In *RAIRO-Theoretical Informatics and Applications*, 2009, vol. 43, no. 3, p. 585-613. (2009 - Current Contents). ISSN 0988-3754.

Citácie:

1. [1.1] ANGELOPOULOS, Spyros - DURR, Christoph - KAMALI, Shahin - RENAULT, Marc P. - ROSEN, Adi. Online Bin Packing with Advice of Small Size. In *THEORY OF COMPUTING SYSTEMS*. ISSN 1432-4350, 2018, vol. 62, no. 8, p. 2006-2034., Registrované v: WOS
2. [1.1] BIANCHI, Maria Paola - BOCKENHAUER, Hans-Joachim - BRULISAUER, Tatjana - KOMM, Dennis - PALANO, Beatrice. Online Minimum Spanning Tree with Advice. In *INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE*. ISSN 0129-0541, 2018, vol. 29, no. 4, p. 505-527., Registrované v: WOS
3. [1.1] BOYAR, Joan - FAVRHOLDT, Lene M. - KUDAH, Christian - MIKKELSEN, Jesper W. Weighted Online Problems with Advice. In *THEORY OF COMPUTING SYSTEMS*. ISSN 1432-4350, 2018, vol. 62, no. 6, p. 1443-1469., Registrované v: WOS
4. [1.1] KHADIEV, K. - KHADIEVA, A. - MANNAPOV, I. Quantum Online Algorithms with Respect to Space and Advice Complexity. In *LOBACHEVSKII JOURNAL OF MATHEMATICS*. ISSN 1995-0802, 2018, vol. 39, no. 9, p. 1377-1387., Registrované v: WOS
5. [1.1] NAGY-GYORGY, Judit. On the Advice Complexity of Coloring Bipartite Graphs and Two-Colorable Hypergraphs. In *ACTA CYBERNETICA*. ISSN 0324-721X, 2018, vol. 23, no. 3, p. 929-938., Registrované v: WOS

ADCA50 DU, S. - JONES, G. - KWAK, J.H. - NEDELA, Roman - ŠKOVIERA, M. 2-groups that factorise as products of cyclic groups and regular embeddings of complete bipartite graphs. In *Ars Mathematica Contemporanea*, 2013, vol. 6, s. 155-170. (2012: 0.667 - IF, 0.367 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1855-3966.

Citácie:

1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. A Classification of Orientably Edge-Transitive Circular Embeddings of. In *ANNALS OF COMBINATORICS*. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS

ADCA51 DVUREČENSKIJ, Anatolij. Subdirectly irreducible state-morphism BL-algebras. In *Archive for Mathematical Logic*, 2011, vol. 50, p. 145-160. (2010: 0.414 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1432-0665.

Citácie:

1. [1.1] CIUNGU, Lavinia Corina. Commutative deductive systems of pseudo-BCK-algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS
2. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS

ADCA52 DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Pseudoeffect Algebras. I. Basic properties. In *International Journal of Theoretical Physics*, 2001, vol. 40, p. 685-701. ISSN 0020-7748.

Citácie:

1. [1.1] AVALLONE, Anna. An Aumann-Shapley type operator in Pseudo-D-lattices. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 413-432., Registrované v: WOS
2. [1.1] WEBER, Hans. Extension of modular functions and measures. In *ANNALI DI MATEMATICA PURA ED APPLICATA*. ISSN 0373-3114, 2018, vol. 197, no. 3, p. 761-774., Registrované v: WOS

3. [1.2] ALEXANDER, Sarah - JIPSEN, Peter - UPEGUI, Nadiya. *On the structure of generalized effect algebras and separation algebras*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, 11194 LNCS, p. 148-165., Registrované v: SCOPUS
- ADCA53 DVUREČENSKIJ, Anatolij - GIUNTINI, R. - KOWALSKI, Tomasz. On the structure of pseudo BL-algebras and pseudo hoops in quantum logics. In *Foundations of Physics*, 2010, vol. 40, p. 1519-1542. (2009: 0.805 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0015-9018.
Citácie:
1. [1.1] WEI, Wang. *Solution to Open Problems on Fuzzy Filters in Logical algebras and Secure Communication Encoding Scheme on Filters*. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 5, p. 1679-1686., Registrované v: WOS
- ADCA54 DVUREČENSKIJ, Anatolij - RACHŮNEK, Jiri. Probabilistic averaging in bounded RI-monoids. In *Semigroup forum*, 2006, vol. 72, no. 2, p. 190-206. ISSN 0037-1912.
Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
2. [1.1] RASOULI, Saeed - ZARIN, Zeinab - HASANKHAN, Abass. *CHARACTERIZATION OF A NEW SUBQUASIVARIETY OF RESIDUATED LATTICE*. In *JOURNAL OF APPLIED LOGICS-IFCOLOG JOURNAL OF LOGICS AND THEIR APPLICATIONS*. ISSN 2055-3706, 2018, vol. 5, no. 1, p. 41-69., Registrované v: WOS
3. [1.1] RASOULI, Saeed. *Heyting, Boolean and Pseudo-MV Filters in Residuated Lattices*. In *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING*. ISSN 1542-3980, 2018, vol. 31, no. 4, p. 287-322., Registrované v: WOS
4. [1.1] ZHANG, Huarong - LUO, Minxia. *The generalized Bosbach states on EQ-algebras*. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
5. [1.2] BĚLOHLÁVEK, Radim - DAUBEN, Joseph W. - KLIR, George J. *Fuzzy logic and mathematics: A historical perspective*. In *Fuzzy Logic and Mathematics: A Historical Perspective*, 2017, p. 1-532., Registrované v: SCOPUS
- ADCA55 DVUREČENSKIJ, Anatolij. Quantum observables and effect algebras. In *International Journal of Theoretical Physics*, 2018, vol. 57, no. 3, p. 637-651. (2017: 0.968 - IF, Q3 - JCR, 0.285 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0020-7748. Dostupné na internete: <<https://link.springer.com/content/pdf/10.1007%2Fs10773-017-3594-1.pdf>>.
Citácie:
1. [1.1] JANDA, Jiri - XIE, Yongjian. *The spectrum of the sum of observables on sigma-complete MV-effect algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
- ADCA56 DVUREČENSKIJ, Anatolij. Sum of observables on MV-effect algebras. In *Soft Computing*, 2018, vol. 22, no. 8, p. 2485-2493. (2017: 2.367 - IF, Q2 - JCR, 0.593 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1432-7643. Dostupné na internete: <<https://link.springer.com/content/pdf/10.1007%2Fs00500-017-2741-1.pdf>>.
Citácie:
1. [1.1] JANDA, Jiri - XIE, Yongjian. *The spectrum of the sum of observables on sigma-complete MV-effect algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS

- ADCA57 DVUREČENSKIĽ, Anatolij. Olson order of quantum observables. In International Journal of Theoretical Physics, 2016, vol. 55, no. 11, p. 4896-4912. (2015: 1.041 - IF, Q3 - JCR, 0.373 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-016-3113-9?view=classic>.
Citácie:
1. [1.1] JANDA, Jiri - XIE, Yongjian. The spectrum of the sum of observables on sigma-complete MV-effect algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
- ADCA58 DVUREČENSKIĽ, Anatolij - ZAHIRI, Omid. Pseudo equality algebras: revision. In Soft Computing, 2016, vol. 20, no. 6, p. 2091-2101. (2015: 1.630 - IF, Q2 - JCR, 0.724 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <http://link.springer.com/article/10.1007/s00500-015-1888-x>.
Citácie:
1. [1.1] CHENG, Xiao Yun - XIN, Xiao Long - HE, Peng Fei. Generalized state maps and states on pseudo equality algebras. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, p. 133-148., Registrované v: WOS
2. [1.1] CIUNGU, Lavinia Corina. State Pseudo-equality Algebras. In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2018, vol. 30, no. 4-6, p. 573-613., Registrované v: WOS
3. [1.1] LUIS CASTIGLIONI, Jose - JAVIER SAN MARTIN, Hernan. l-Hemi-Implicative Semilattices. In STUDIA LOGICA. ISSN 0039-3215, 2018, vol. 106, no. 4, p. 675-690., Registrované v: WOS
- ADCA59 DVUREČENSKIĽ, Anatolij - HYČKO, Marek. Hyper effect algebras. In Fuzzy Sets and Systems, 2017, vol. 326, p. 34-51. (2016: 2.718 - IF, Q1 - JCR, 1.408 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0165-0114.
Citácie:
1. [1.1] CHEN, Wenjuan - DAVVAZ, Bijan. HYPER QUASI-MV ALGEBRAS AND IDEALS. In ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS. ISSN 1126-8042, 2018, vol., no. 39, p. 793-809., Registrované v: WOS
- ADCA60 DVUREČENSKIĽ, Anatolij - RACHŮNEK, J. - ŠALOUNOVÁ, D. State operators on generalizations of fuzzy structures. In Fuzzy Sets and Systems, 2012, vol. 187, p. 58-76. (2011: 1.759 - IF, 1.518 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0165-0114. Fuzzy Sets and Systems, 2012, vol.194, p. 97-99. (2011: 1.759 - IF, 1.518 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0165-0114. Erratum publikované vo vol. 194.
Citácie:
1. [1.1] CIUNGU, Lavinia Corina. Commutative deductive systems of pseudo-BCK-algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 4, p. 1189-1201., Registrované v: WOS
2. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. State maps on semihoops. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, p. 1061-1076., Registrované v: WOS
3. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. Involutive Monoidal T-norm Based Algebras with Internal States. In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2018, vol. 31, no. 5-6, p. 531-565., Registrované v: WOS
4. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS

5. [1.1] ZHAO, Bin - HE, Pengfei. *On Non-commutative Residuated Lattices With Internal States*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1387-1400., Registrované v: WOS
6. [1.2] MUKKAMALA, Sambasiva Rao. *A course in BE-algebras*. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA61 DVUREČENSKIJ, Anatolij. States on quantum structures versus integrals. In *International Journal of Theoretical Physics*, 2011, vol. 50, p. 3761-3777. (2010: 0.670 - IF, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0020-7748.
- Citácie:
1. [1.2] BORZOOEI, Rajabali - ZAREAN, Massomeh. *Local and locally finite equality algebras*. In *2018 6th Iranian Joint Congress on Fuzzy and Intelligent Systems, CFIS 2018, 2018-January*, p. 47-49., Registrované v: SCOPUS
- ADCA62 DVUREČENSKIJ, Anatolij - KOWALSKI, T. - MONTAGNA, F. State morphism MV-algebras. In *International Journal of Approximate Reasoning*, 2011, vol. 52, p. 1215-1228. (2010: 1.679 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0888-613X.
- Citácie:
1. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. *EQ-algebras with internal states*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
2. [1.1] ZHANG, Huarong - LUO, Minxia. *The generalized Bosbach states on EQ-algebras*. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
3. [1.2] MUKKAMALA, Sambasiva Rao. *A course in BE-algebras*. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADCA63 DVUREČENSKIJ, Anatolij - XIE, Y. - YANG, A. Discrete $(n + 1)$ -valued states and n -perfect pseudo-effect algebras. In *Soft Computing*, 2013, vol. 17, p. 1537-1552. (2012: 1.124 - IF, 0.805 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1432-7643.
- Citácie:
1. [2.1] SINGH, Akhilesh Kumar. *INVARIANCE OF NONATOMIC MEASURES ON EFFECT ALGEBRAS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 2, p. 311-318., Registrované v: WOS
- ADCA64 DVUREČENSKIJ, Anatolij - VETTERLEIN, Thomas. Pseudoeffect algebras. II. Group representation. In *International Journal of Theoretical Physics*, 2001, vol. 40, p. 703-726. ISSN 0020-7748.
- Citácie:
1. [1.1] AVALLONE, Anna. *An Aumann-Shapley type operator in Pseudo-D-lattices*. In *RICERCHHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 413-432., Registrované v: WOS
2. [1.1] LEDDA, Antonio - PAOLI, Francesco - TSINAKIS, Constantine. *The Archimedean property: new horizons and perspectives*. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 91., Registrované v: WOS
- ADCA65 DVUREČENSKIJ, Anatolij - LAHTI, Pekka - YLINEN, K. The uniqueness question in the multidimensional moment problem with applications to phase space observables. In *Reports on Mathematical Physics*, 2002, vol. 50, p. 55-68. ISSN 0034-4877.

- Citácie:
- [1.2] BEN SAID, Mohamed - AZRAR, Lahcen - SARSRI, Driss. Numerical Procedures for Random Differential Equations. In *Journal of Applied Mathematics*. ISSN 1110757X, 2018, vol. 2018, art. no. 7403745., Registrované v: SCOPUS
- ADCA66 DVUREČENSKIJ, Anatolij - LÄNGER, H. Bell-type inequalities in orthomodular lattices II. Inequalities of higher order. In *International Journal of Theoretical Physics*, 1995, vol. 34, p. 1025-1036. ISSN 0020-7748.
- Citácie:
- [1.1] SVOZIL, K. Physical (A)Causality: Determinism, Randomness and Uncaused Events. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, p. 1-219., Registrované v: WOS
- ADCA67 DVUREČENSKIJ, Anatolij - LÄNGER, H. Bell-type inequalities in orthomodular lattices I. Inequalities of order 2. In *International Journal of Theoretical Physics*, 1995, vol. 34, p. 995-1024. ISSN 0020-7748.
- Citácie:
- [1.1] SVOZIL, K. Physical (A)Causality: Determinism, Randomness and Uncaused Events. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, p. 1-219., Registrované v: WOS
- ADCA68 DVUREČENSKIJ, Anatolij - RIEČAN, Beloslav. Weakly divisible MV-algebras and product. In *Journal of Mathematical Analysis and Applications*, 1999, vol. 234, p. 208-222. ISSN 0022-247X.
- Citácie:
- [1.1] BANIVAHEB, H. - SAEID, A. Borumand. Localization of PMV-algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 1, p. 31-40., Registrované v: WOS
- ADCA69 DVUREČENSKIJ, Anatolij. States on unital partially-ordered groups. In *Kybernetika*, 2002, vol. 38, s. 297-318. ISSN 0023-5954.
- Citácie:
- [3.1] IORGULESCU, A. "Implicative-groups vs. groups and generalizations". *Bucharest: Matrix Rom*, 2018. ISBN 978-606-25-0394-9, 735 p.
- ADCA70 DVUREČENSKIJ, Anatolij. On a new construction of pseudo BL-algebras. In *Fuzzy Sets and Systems*, 2015, vol. 271, p. 156-167. (2014: 1.986 - IF, Q1 - JCR, 1.461 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114.
- Citácie:
- [1.1] NIA, B. Barani - SAEID, A. Borumand. Classes of pseudo BL-algebras with right Boolean lifting property. In *TRANSACTIONS OF A RAZMADZE MATHEMATICAL INSTITUTE*. ISSN 2346-8092, 2018, vol. 172, no. 2, p. 146-163., Registrované v: WOS
 - [1.1] NIA, B. Barani - SAEID, A. Borumand. Study of Pseudo BL-Algebras in View of Left Boolean Lifting Property. In *APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL*. ISSN 1932-9466, 2018, vol. 13, no. 1, p. 354-380., Registrované v: WOS
- ADCA71 DVUREČENSKIJ, Anatolij. Representable effect algebras and observables. In *International Journal of Theoretical Physics*, 2014, vol. 53, p. 2855-2866. (2013: 1.188 - IF, 0.494 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0020-7748.

- Citácie:
- [1.1] JANDA, Jiri - XIE, Yongjian. *The spectrum of the sum of observables on sigma-complete MV-effect algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
- ADCA72 DVUREČENSKIJ, Anatolij - KULJUKINA, L. A. - OSOSKOV, G. A. On a problem of the busy-period determination in queues with infinitely many servers. In *Journal of Applied Probability*, 1984, vol. 21, s. 201-206. ISSN 0021-9002.
- Citácie:
- [1.1] LIVINSKA, Hanna - LEBEDEV, Eugene. *On transient and stationary regimes for multi-channel networks with periodic inputs*. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 319, p. 13-23., Registrované v: WOS
- ADCA73 DVUREČENSKIJ, Anatolij. On the existence of probability measures on fuzzy measurable spaces. In *Fuzzy Sets and Systems*, 1991, vol. 43, p. 173-181. ISSN 0165-0114.
- Citácie:
- [1.1] MARKECHOVA, Dagmar. *Tsallis Entropy of Fuzzy Dynamical Systems*. In *MATHEMATICS*. ISSN 2227-7390, 2018, vol. 6, no. 11, art. no. 264., Registrované v: WOS
- ADCA74 DVUREČENSKIJ, Anatolij. On a representation of observables on fuzzy measurable spaces. In *Journal of Mathematical Analysis and Applications*, 1996, vol. 197, p. 579-585. ISSN 0022-247X.
- Citácie:
- [1.2] BĚLOHLÁVEK, Radim - DAUBEN, Joseph W. - KLIR, George J. *Fuzzy logic and mathematics: A historical perspective*. In *Fuzzy Logic and Mathematics: A Historical Perspective*, 2017, p. 1-532., Registrované v: SCOPUS
- ADCA75 DVUREČENSKIJ, Anatolij - RIEČAN, Beloslav. Fuzzy quantum models. In *International Journal of General Systems*, 1991, vol. 20, no. 1, p. 39-54. ISSN 0308-1079.
- Citácie:
- [1.2] BĚLOHLÁVEK, Radim - DAUBEN, Joseph W. - KLIR, George J. *Fuzzy logic and mathematics: A historical perspective*. In *Fuzzy Logic and Mathematics: A Historical Perspective*, 2017, p. 1-532., Registrované v: SCOPUS
- ADCA76 DVUREČENSKIJ, Anatolij - PULMANNOVÁ, Sylvia. Difference posets, effects, and quantum measurements. In *International Journal of Theoretical Physics*, 1994, vol. 33, p. 819-850. ISSN 0020-7748.
- Citácie:
- [2.1] KHARE, Mona - SINGH, Bhawana - SHUKLA, Anurag. *APPROXIMATION IN QUANTUM MEASURE SPACES*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 3, p. 491-500., Registrované v: WOS
- ADCA77 DVUREČENSKIJ, Anatolij - LÄNGER, H. Bell-type inequalities in horizontal sums of Boolean algebras. In *Foundations of Physics*, 1994, vol. 24, p. 1195-1202. ISSN 0015-9018.
- Citácie:
- [1.1] SVOZIL, K. *Physical (A)Causality: Determinism, Randomness and Uncaused Events*. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, p. 1-219., Registrované v: WOS
- ADCA78 DVUREČENSKIJ, Anatolij - KUKOVÁ, M. Observables on quantum structures. In *Information Sciences*, 2014, vol. 262, p. 215-222. (2013: 3.893 - IF, 2.332 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0020-0255.

- Citácie:
- [1.1] JANDA, Jiri - XIE, Yongjian. *The spectrum of the sum of observables on sigma-complete MV-effect algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., *Registrované v: WOS*
- ADCA79 DVUREČENSKIJ, Anatolij - KOWALSKI, Tomasz. Kites and pseudo BL-algebras. In *Algebra Universalis*, 2014, vol. 71, p. 235-260. (2013: 0.551 - IF, 0.548 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0002-5240.
- Citácie:
- [1.1] NIA, B. Barani - SAEID, A. Borumand. *Classes of pseudo BL-algebras with right Boolean lifting property*. In *TRANSACTIONS OF A RAZMADZE MATHEMATICAL INSTITUTE*. ISSN 2346-8092, 2018, vol. 172, no. 2, p. 146-163., *Registrované v: WOS*
- ADCA80 DVUREČENSKIJ, Anatolij. Every linear pseudo BL-algebra admits a state. In *Soft Computing*, 2007, vol. 11, p. 495-501. (2006: 0.516 - IF). ISSN 1432-7643.
- Citácie:
- [1.1] ZHANG, Huarong - LUO, Minxia. *The generalized Bosbach states on EQ-algebras*. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., *Registrované v: WOS*
- ADCA81 DVUREČENSKIJ, Anatolij. Agliano-Montagna type decomposition of linear pseudo hoops and its applications. In *Journal of Pure and Applied Algebra*, 2007, vol. 211, p. 851-861. (2006: 0.470 - IF). ISSN 0022-4049.
- Citácie:
- [1.1] LEDDA, Antonio - PAOLI, Francesco - TSINAKIS, Constantine. *The Archimedean property: new horizons and perspectives*. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 91., *Registrované v: WOS*
- ADCA82 DVUREČENSKIJ, Anatolij. On pseudo MV-algebras. In *Soft Computing*, 2001, vol. 5, p. 347-354. ISSN 1432-7643.
- Citácie:
- [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *Ideals and congruences in quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 12, p. 3879-3889., *Registrované v: WOS*
 - [1.1] RACHUNEK, Jiri - SALOUNOVA, Dana. *Derivations on algebras of a non-commutative generalization of the Lukasiewicz logic*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 11-16., *Registrované v: WOS*
 - [1.2] JUN, Young Bae - SONG, Seok Zun - BORDBAR, Hashem. *Int-soft ideals of pseudo MV-algebras*. In *Bulletin of the Section of Logic*. ISSN 01380680, 2018, vol. 47, no. 1, p. 1-15., *Registrované v: SCOPUS*
- ADCA83 DVUREČENSKIJ, Anatolij. Tensor product of difference posets. In *Transactions of the American Mathematical Society*, 1995, vol. 347, p. 1043-1057. ISSN 0002-9947.
- Citácie:
- [1.1] JENCA, Gejza. *Effect Algebras as Presheaves on Finite Boolean Algebras*. In *ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS*. ISSN 0167-8094, 2018, vol. 35, no. 3, p. 525-540., *Registrované v: WOS*
- ADCA84 DVUREČENSKIJ, Anatolij. Pseudo MV-algebras are intervals in l-groups. In *Journal of the Australian Mathematical Society*, 2002, vol. 72, p. 427-445. ISSN 1446-7887.
- Citácie:
- [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *Ideals and congruences in quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 12, p. 3879-3889., *Registrované v: WOS*

2. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
 3. [1.1] FLAMINIO, T. - HOSNI, H. - LAPENTA, S. Convex MV-Algebras: Many-Valued Logics Meet Decision Theory. In *STUDIA LOGICA*. ISSN 0039-3215, 2018, vol. 106, no. 5, p. 913-945., Registrované v: WOS
 4. [1.1] LEDDA, Antonio - PAOLI, Francesco - TSINAKIS, Constantine. The Archimedean property: new horizons and perspectives. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 91., Registrované v: WOS
 5. [1.1] RACHUNEK, Jiri - SALOUNOVA, Dana. Derivations on algebras of a non-commutative generalization of the Lukasiewicz logic. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 11-16., Registrované v: WOS
 6. [1.1] RUMP, Wolfgang. Von Neumann algebras, L-algebras, Baer *-monoids, and Garside groups. In *FORUM MATHEMATICUM*. ISSN 0933-7741, 2018, vol. 30, no. 4, p. 973-995., Registrované v: WOS
 7. [3.1] IORGULESCU, A. "Implicative-groups vs. groups and generalizations". Bucharest: Matrix Rom, 2018. ISBN 978-606-25-0394-9, 735 p.
- ADCA85 DVUREČENSKIJ, Anatolij. Loomis - Sikorski theorem for sigma-complete MV-algebras and l-groups. In *Journal of the Australian Mathematical Society*, 2000, vol. 68, p. 261-277. ISSN 1446-7887.
- Citácie:
1. [1.1] DI NOLA, Antonio - LAPENTA, Serafina - LEUSTEAN, Ioana. Infinitary logic and basically disconnected compact Hausdorff spaces. In *JOURNAL OF LOGIC AND COMPUTATION*. ISSN 0955-792X, 2018, vol. 28, no. 6, p. 1275-1292., Registrované v: WOS
 2. [1.2] BĚLOHLÁVEK, Radim - DAUBEN, Joseph W. - KLIR, George J. Fuzzy logic and mathematics: A historical perspective. In *Fuzzy Logic and Mathematics: A Historical Perspective*, 2017, p. 1-532., Registrované v: SCOPUS
- ADCA86 ELIAŠ, Peter. Dirichlet sets, Erdős-Kunen-Mauldin theorem, and analytic subgroups of the reals. In *Proceedings of the American Mathematical Society*, 2011, vol. 139, p. 2093-2104. (2010: 0.601 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0002-9939.
- Citácie:
1. [1.1] DI SANTO, Raffaele - DIKRANJAN, Dikran - BRUNO, Anna Giordano. Characterized subgroups of the circle group. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 625-655., Registrované v: WOS
- ADCA87 ELIAŠ, Peter. A classification of trigonometrical thin sets and their interrelations. In *Proceedings of the American Mathematical Society*, 1997, vol. 125, p. 1111-1121. ISSN 0002-9939.
- Citácie:
1. [1.1] DI SANTO, Raffaele - DIKRANJAN, Dikran - BRUNO, Anna Giordano. Characterized subgroups of the circle group. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 625-655., Registrované v: WOS
- ADCA88 EOM, Hae-Sung - HAN, Yo-Sub - JIRÁSKOVÁ, Galina. State complexity of basic operations on non-returning regular languages. In *Fundamenta Informaticae*, 2016, vol. 144, no. 2, p. 161-182. (2015: 0.658 - IF, Q3 - JCR, 0.419 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0169-2968.

Citácie:

1. [1.1] DAVIES, Sylvie. *A New Technique for Reachability of States in Concatenation Automata*. In *DESCRIPTIONAL COMPLEXITY OF FORMAL SYSTEMS, DCFS 2018*. ISSN 0302-9743, 2018, vol. 10952, no., p. 75-87., Registrované v: WOS
 2. [1.1] DAVIES, Sylvie. *Primitivity, Uniform Minimality, and State Complexity of Boolean Operations*. In *THEORY OF COMPUTING SYSTEMS*. ISSN 1432-4350, 2018, vol. 62, no. 8, p. 1952-2005., Registrované v: WOS
 3. [1.1] RODARO, Emanuele. *Strongly connected synchronizing automata and the language of minimal reset words*. In *ADVANCES IN APPLIED MATHEMATICS*. ISSN 0196-8858, 2018, vol. 99, p. 158-173., Registrované v: WOS
 4. [1.2] BRZOZOWSKI, Janusz A. *Towards a theory of complexity of regular languages*. In *Journal of Automata, Languages and Combinatorics*. ISSN 1430189X, 2018-01-01, 23, 1-3, p. 67-101., Registrované v: SCOPUS
- ADCA89 FARIA, L. - DE FIGUEIREDO, C.M.H. - SÝKORA, O. - VRŤO, Imrich. *An improved upper bound on the crossing number of the hypercube*. In *Journal of Graph Theory*, 2008, vol. 59, p. 145-161. ISSN 0364-9024.
- Citácie:
1. [1.1] ZHAO LINGQI - XU XIRONG - BAI SIQIN - ZHANG HUIFENG - YANG YUANSHEG. *The crossing number of locally twisted cubes LTQ(n)*. In *DISCRETE APPLIED MATHEMATICS*. ISSN 0166-218X, 2018, vol. 247, p. 407-418., Registrované v: WOS
- ADCA90 FEČKAN, Michal - ROTHOS, Vassilis M. *Travelling waves of discrete nonlinear Schrödinger equations with nonlocal interactions*. In *Applicable Analysis*, 2010, vol. 89, no. 9, p. 1387-1411. (2009: 0.613 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0003-6811.
- Citácie:
1. [1.1] GARCIA-AZPEITIA, Carlos. *Global bifurcation of travelling waves in discrete nonlinear Schrodinger equations*. In *JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS*. ISSN 1023-6198, 2018, vol. 24, no. 4, p. 564-574., Registrované v: WOS
 2. [1.1] JAMES, Guillaume. *Travelling breathers and solitary waves in strongly nonlinear lattices*. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*. ISSN 1364-503X, 2018, vol. 376, no. 2127, art. no. 20170138., Registrované v: WOS
 3. [1.2] HENNIG, Dirk. *Periodic Travelling Wave Solutions of Discrete Nonlinear Schrödinger Equations*. In *Journal of Applied Mathematics*. ISSN 1110757X, 2017, art. no. 3694103., Registrované v: SCOPUS
- ADCA91 FEČKAN, Michal. *Periodic solutions of certain abstract wave equations*. In *Proceedings of the American Mathematical Society*, 1995, vol. 123, no. 2, p. 465-470. ISSN 0002-9939.
- Citácie:
1. [1.1] JI, Shuguan. *Periodic solutions for one dimensional wave equation with bounded nonlinearity*. In *JOURNAL OF DIFFERENTIAL EQUATIONS*. ISSN 0022-0396, 2018, vol. 264, no. 9, p. 5527-5540., Registrované v: WOS
- ADCA92 FEČKAN, Michal - ROTHOS, Vassilis M. *Travelling waves of forced discrete nonlinear Schrodinger equations*. In *Discrete and Continuous Dynamical Systems - Series S*, 2011, vol. 4, no. 5, p. 1129-1145. ISSN 1937-1632.

Citácie:

1. [1.1] JAMES, Guillaume. Travelling breathers and solitary waves in strongly nonlinear lattices. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES. ISSN 1364-503X, 2018, vol. 376, no. 2127, art. no. 20170138., Registrované v: WOS

ADCA93 FEČKAN, Michal. Discretization in the method of averaging. In Proceedings of the American Mathematical Society, 1991, vol. 113, no. 4, p. 1105-1113. ISSN 0002-9939.

Citácie:

1. [1.1] MOHDEB, Nadia - FRUCHARD, Augustin - MEHIDI, Noureddine. ELLIPTIC SECTORS AND EULER DISCRETIZATION. In ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS. ISSN 1072-6691, 2018, art. no. 183., Registrované v: WOS

ADCA94 FEČKAN, Michal - MARYNETS, Kateryna. Approximation approach to periodic BVP for mixed fractional differential systems. In Journal of Computational and Applied Mathematics, 2018, vol. 339, p. 208-217. (2017: 1.632 - IF, Q1 - JCR, 0.938 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0377-0427. Dostupné na internete: <<https://www.sciencedirect.com/science/article/pii/S0377042717305290>>.

Citácie:

1. [1.1] ZHANG, Wei - LIU, Wenbin - XUE, Tingting. Existence and uniqueness results for the coupled systems of implicit fractional differential equations with periodic boundary conditions. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 413., Registrované v: WOS

ADCA95 FEČKAN, Michal - WANG, JinRong - ZHOU, Yong. Controllability of fractional functional evolution equations of Sobolev type via characteristic solution operators. In Journal of Optimization Theory and Applications, 2013, vol. 156, no. 1, p. 79-95. (2012: 1.423 - IF, 1.274 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-3239.

Citácie:

1. [1.1] CHADHA, Alka - PANDEY, Dwijendra N. Approximate Controllability of a Neutral Stochastic Fractional Integro-Differential Inclusion with Nonlocal Conditions. In JOURNAL OF THEORETICAL PROBABILITY. ISSN 0894-9840, 2018, vol. 31, no. 2, p. 705-740., Registrované v: WOS

2. [1.1] CHENG, Yi - GAO, Shanshan - WU, Yuhu. Exact controllability of fractional order evolution equations in Banach spaces. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 332., Registrované v: WOS

3. [1.1] FEDOROV, Vladimir E. - GORDIEVSKIY, Dmitriy M. Approximate Controllability of Strongly Degenerate Fractional Order System of Distributed Control. In IFAC PAPERSONLINE. ISSN 2405-8963, 2018, vol. 51, no. 32, p. 675-680., Registrované v: WOS

4. [1.1] GOU, Haide - LI, Baolin. Existence of Mild Solutions for Sobolev-Type Hilfer Fractional Nonautonomous Evolution Equations with Delay. In INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION. ISSN 1565-1339, 2018, vol. 19, no. 5, p. 481-492., Registrované v: WOS

5. [1.1] HAN, Jingqi - YAN, Litan. Controllability of a stochastic functional differential equation driven by a fractional Brownian motion. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 104., Registrované v: WOS

6. [1.1] MOURAD, Kerboua - FATEH, Ellagoune - BALEANU, Dumitru. Stochastic fractional perturbed control systems with fractional Brownian motion and Sobolev stochastic non local conditions. In COLLECTANEA MATHEMATICA. ISSN 0010-0757, 2018, vol. 69, no. 2, p. 283-296., Registrované v: WOS
 7. [1.1] MOURAD, Kerboua. Approximate controllability of fractional neutral stochastic evolution equations in Hilbert spaces with fractional Brownian motion. In STOCHASTIC ANALYSIS AND APPLICATIONS. ISSN 0736-2994, 2018, vol. 36, no. 2, p. 209-223., Registrované v: WOS
 8. [1.1] ZHU, Pengxian - XIANG, Qiaomin. Topological structure of solution sets for fractional evolution inclusions of Sobolev type. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, 2018, art. no. 171., Registrované v: WOS
 9. [1.2] NIRMALKUMAR, R. - MURUGESU, R. Controllability results for mixed Volterra-Fredholm type fractional integrodifferential equations with infinite delay in banach spaces. In Nonlinear Studies. ISSN 13598678, 2018, vol. 25, no. 1, p. 135-148., Registrované v: SCOPUS
- ADCA96 FEČKAN, Michal. Singularly perturbed higher order boundary value problems. In Journal Differential Equations, 1994, vol. 111, no. 1, p. 79-102. ISSN 0022-0396.
Citácie:
1. [1.1] ALINIA, N. - ZAREBNIA, M. A new tension B-spline method for third-order self-adjoint singularly perturbed boundary value problems. In JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS. ISSN 0377-0427, 2018, vol. 342, p. 521-533., Registrované v: WOS
 2. [1.1] PANDEY, Pramod Kumar. An efficient numerical method for the solution of third order boundary value problem in ordinary differential equations. In INTERNATIONAL JOURNAL OF COMPUTING SCIENCE AND MATHEMATICS. ISSN 1752-5055, 2018, vol. 9, no. 2, p. 171-180., Registrované v: WOS
- ADCA97 FEČKAN, Michal - POSPÍŠIL, Michal. Note on fractional difference Gronwall inequalities. In Electronic Journal of Qualitative Theory of Differential Equations, 2014, vol. 44, s. 1-18. (2013: 0.638 - IF, 0.642 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1417-3875.
Citácie:
1. [1.1] ABDELJAWAD, Thabet - AGARWAL, Ravi P. - ALZABUT, Jehad - JARAD, Fand - OZBEKLER, Abdullah. Lyapunov-type inequalities for mixed non-linear forced differential equations within conformable derivatives. In JOURNAL OF INEQUALITIES AND APPLICATIONS. ISSN 1029-242X, 2018., Registrované v: WOS
 2. [1.1] ALZABUL, Jehad - ABDELJAWAD, Thabet. A GENERALIZED DISCRETE FRACTIONAL GRONWALL INEQUALITY AND ITS APPLICATION ON THE UNIQUENESS OF SOLUTIONS FOR NONLINEAR DELAY FRACTIONAL DIFFERENCE SYSTEM. In APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS. ISSN 1452-8630, 2018, vol. 12, no. 1, p. 36-48., Registrované v: WOS
- ADCA98 FEČKAN, Michal - ZHOU, Yong - WANG, JinRong. On the concept and existence of solution for impulsive fractional differential equations. In Communications in nonlinear science and numerical simulation, 2012, vol. 17, no. 7, p. 3050-3060. (2011: 2.806 - IF, 1.321 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1007-5704.

Citácie:

1. [1.1] AGARWAL, Ravi - HRISTOVA, Snezhana - O';REGAN, Donal. Global Mittag-Leffler Synchronization for Neural Networks Modeled by Impulsive Caputo Fractional Differential Equations with Distributed Delays. In SYMMETRY-BASEL. ISSN 2073-8994, 2018, vol. 10, no. 10, art. no. 473., Registrované v: WOS
2. [1.1] CAO, Junying - CHEN, Lizhen - WANG, Ziqiang. A high-order numerical scheme for the impulsive fractional ordinary differential equations. In INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS. ISSN 0020-7160, 2018, vol. 95, no. 12, p. 2433-2457., Registrované v: WOS
3. [1.1] CHAUDHARY, Renu - PANDEY, Dwijendra N. Existence and approximation of solution to stochastic fractional integro-differential equation with impulsive effects. In COLLECTANEA MATHEMATICA. ISSN 0010-0757, 2018, vol. 69, no. 2, p. 181-204., Registrované v: WOS
4. [1.1] FANG, Huiping - SONG, Mingzhu. Existence results for fractional order impulsive functional differential equations with multiple delays. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 139., Registrované v: WOS
5. [1.1] FEN, Fatma Tokmak. ON THE SOLUTIONS OF A MULTI-POINT BVP FOR FRACTIONAL DIFFERENTIAL EQUATIONS WITH IMPULSES. In MISKOLC MATHEMATICAL NOTES. ISSN 1787-2405, 2018, vol. 19, no. 2, p. 847-863., Registrované v: WOS
6. [1.1] GAUTAM, Ganga Ram - DABAS, Jaydev. A study on existence of solutions for fractional functional differential equations. In COLLECTANEA MATHEMATICA. ISSN 0010-0757, 2018, vol. 69, no. 1, p. 25-37., Registrované v: WOS
7. [1.1] GOU, Haide - LI, Baolin. Existence of Mild Solutions for Sobolev-Type Hilfer Fractional Nonautonomous Evolution Equations with Delay. In INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION. ISSN 1565-1339, 2018, vol. 19, no. 5, p. 481-492., Registrované v: WOS
8. [1.1] GOU, Haide - LI, Baolin. Local and Global Existence of Mild Solution to Fractional Semilinear Impulsive Volterra Type Integro-Differential Equation. In SOUTHEAST ASIAN BULLETIN OF MATHEMATICS. ISSN 0129-2021, 2018, vol. 42, no. 4, p. 545-558., Registrované v: WOS
9. [1.1] LIU, Yuji - WONG, Patricia J. Y. Recent studies on boundary value problems for impulsive fractional differential systems involving Caputo fractional derivatives. In BOLETIN DE LA SOCIEDAD MATEMATICA MEXICANA. ISSN 1405-213X, 2018, vol. 24, no. 2, p. 393-425., Registrované v: WOS
10. [1.1] LIU, Yuji. Solvability of Anti-periodic BVPs for Impulsive Fractional Differential Systems Involving Caputo and Riemann-Liouville Fractional Derivatives. In INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION. ISSN 1565-1339, 2018, vol. 19, no. 2, p. 125-152., Registrované v: WOS
11. [1.1] SINGHAL, Sandeep - UDUMAN, Pattani Samsudeen Sehi. UNIQUENESS OF SOLUTION FOR IMPULSIVE FRACTIONAL FUNCTIONAL DIFFERENTIAL EQUATION. In COMMUNICATIONS OF THE KOREAN MATHEMATICAL SOCIETY. ISSN 1225-1763, 2018, vol. 33, no. 1, p. 171-177., Registrované v: WOS

12. [1.1] SOLTANI, Zeinab. A Fixed Point Theorem for Generalized Contractive Type Set-valued Mappings with Application to Nonlinear Fractional Differential Inclusions. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 15, p. 5361-5370., Registrované v: WOS
13. [1.1] STAMOV, Gani - STAMOVA, Ivanka. Uncertain impulsive differential systems of fractional order: almost periodic solutions. In *INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE*. ISSN 0020-7721, 2018, vol. 49, no. 3, p. 631-638., Registrované v: WOS
14. [1.1] VADIVOO, B. Sundara - RAMACHANDRAN, Raja - CAO, Jinde - ZHANG, Hai - LI, Xiaodi. Controllability Analysis of Nonlinear Neutral-type Fractional-order Differential Systems with State Delay and Impulsive Effects. In *INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS*. ISSN 1598-6446, 2018, vol. 16, no. 2, p. 659-669., Registrované v: WOS
15. [1.1] WU, Guo-Cheng - BALEANU, Dumitru - HUANG, Lan-Lan. Novel Mittag-Leffler stability of linear fractional delay difference equations with impulse. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 82, p. 71-78., Registrované v: WOS
16. [1.1] WU, Guo-Cheng - BALEANU, Dumitru. STABILITY ANALYSIS OF IMPULSIVE FRACTIONAL DIFFERENCE EQUATIONS. In *FRACTIONAL CALCULUS AND APPLIED ANALYSIS*. ISSN 1311-0454, 2018, vol. 21, no. 2, p. 354-375., Registrované v: WOS
17. [1.1] ZHANG, Di - LIANG, Yue. Existence and controllability of fractional evolution equation with sectorial operator and impulse. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 219., Registrované v: WOS
18. [1.1] ZHANG, Suping - JIANG, Wei. The existence and exponential stability of random impulsive fractional differential equations. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 404., Registrované v: WOS
19. [1.1] ZHANG, Yanpeng - YANG, Xiaoyuan - LI, Xiaocui. Error estimates of finite element methods for nonlinear fractional stochastic differential equations. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 215., Registrované v: WOS
20. [1.1] ZHAO, Yulin - SHI, Xiaoyan - CHEN, Haibo. Multiplicity results for a class of fractional differential equations with impulse. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 341., Registrované v: WOS
21. [1.2] ANGURAJ, A. - KANJANADEVI, S. - BALEANU, D. On mild solution of abstract neutral fractional order impulsive differential equations with infinite delay. In *Journal of Computational Analysis and Applications*. ISSN 15211398, 2018, vol. 24, no. 7, p. 1232-1244., Registrované v: SCOPUS
22. [1.2] SUNDARA, Vadivoo B. - RAJA, R. - AGARWAL, R. P. - RAJCHAKIT, G. A novel controllability analysis of impulsive fractional linear time invariant systems with state delay and distributed delays in control. In *Discontinuity, Nonlinearity, and Complexity*. ISSN 21646376, 2018, vol. 7, no. 3, p. 275-290., Registrované v: SCOPUS

ADCA99

FEČKAN, Michal. A generalization of Bendixon's criterion. In *Proceedings of the American Mathematical Society*, 2001, vol. 129, no. 11, p. 3395-3399. ISSN 0002-9939.

Citácie:

1. [1.2] TUMBUAN, Tobias Prawira - NURPRASETIO, Ignatius Pulung - INDRAWANTO - ABIDIN, Zainal. Stable PID control strategy to remove limit cycle due to stribek friction on DC servo motor. In *International Review of Automatic Control*. ISSN 19746059, 2018, vol. 11, no. 4, p. 208-216.,
Registrované v: SCOPUS

ADCA100 FEČKAN, Michal. Parametrized singularly perturbed boundary value problems. In *Journal of Mathematical Analysis and Applications*, 1994, vol. 188, no. 2, p. 426-435. ISSN 0022-247X.

Citácie:

1. [1.1] CHANDRU, M. - DAS, P. - RAMOS, H. Numerical treatment of two-parameter singularly perturbed parabolic convection diffusion problems with non-smooth data. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 14, p. 5359-5387., Registrované v: WOS

2. [1.1] KUDU, Mustafa - AMIRALI, Ilhame - AMIRALIYEV, Gabil M. UNIFORM NUMERICAL APPROXIMATION FOR PARAMETER DEPENDENT SINGULARLY PERTURBED PROBLEM WITH INTEGRAL BOUNDARY CONDITION. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 337-353., Registrované v: WOS

3. [1.1] KUDU, Mustafa. A parameter uniform difference scheme for the parameterized singularly perturbed problem with integral boundary condition. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 170., Registrované v: WOS

ADCA101 FEČKAN, Michal. Asymptotic behavior of stable manifolds. In *Proceedings of the American Mathematical Society*, 1991, vol. 111, no. 2, p. 585-593. ISSN 0002-9939.

Citácie:

1. [1.1] MOHDEB, Nadia - FRUCHARD, Augustin - MEHIDI, Nouredine. ELLIPTIC SECTORS AND EULER DISCRETIZATION. In *ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS*. ISSN 1072-6691, 2018, art. no. 183., Registrované v: WOS

ADCA102 FIGEDY, S. - OKŠA, Gabriel. Modern Methods of Signal Processing in the Loose Part Monitoring System. In *Progress in Nuclear Energy*, 2005, vol. 46, no. 3-4, p. 253-267. ISSN 0149-1970.

Citácie:

1. [1.1] AYO-IMORU, R. M. - CILLIERS, A. C. A survey of the state of condition-based maintenance (CBM) in the nuclear power industry. In *ANNALS OF NUCLEAR ENERGY*. ISSN 0306-4549, 2018, vol. 112, no., pp. 177-188., Registrované v: WOS

2. [1.1] CAO, Yanlong - LIU, Mingzhou - YANG, Jiangxin - CAO, Yanpeng - FU, Weinan. A method for extracting weak impact signal in NPP based on adaptive Morlet wavelet transform and kurtosis. In *PROGRESS IN NUCLEAR ENERGY*. ISSN 0149-1970, 2018, vol. 105, no., pp. 211-220., Registrované v: WOS

ADCA103 FOMINA-YADLINA, Dina - KUBICEKA, Stefan - WALPITA, Deepika - DANČÍK, Vladimír - ETC. Small-molecule inducers of insulin expression in pancreatic α -cells. D. Fomina-Yadlin, S. Kubicek, D. Walpita, V. Dančík. In *Proceedings of the National Academy of Sciences of the United States of America*, 2010, vol. 107, no. 34, p. 15099-15104. (2009: 9.432 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0027-8424.

Citácie:

1. [1.1] QIN, Hua - ZHAO, Andong - FU, Xiaobing. Chemical modulation of cell fates: in situ regeneration. In *SCIENCE CHINA-LIFE SCIENCES*. ISSN 1674-7305, 2018, vol. 61, no. 10, p. 1137-1150., Registrované v: WOS

2. [1.1] TAKEDA, Yukimasa - HARADA, Yoshinori - YOSHIKAWA, Toshikazu - DAI, Ping. Chemical compound-based direct reprogramming for future clinical applications. In *BIOSCIENCE REPORTS*. ISSN 0144-8463, 2018, vol. 38, part 3, art. no. BSR20171650., Registrované v: WOS

ADCA104 FOULIS, D.J. - PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Type decompositions of a pseudoeffect algebra. In *Journal of the Australian Mathematical Society*, 2010, vol. 89, no. 3, p. 335-358. (2009: 0.348 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1446-7887.

Citácie:

1. [1.1] AVALONE, Anna. An Aumann-Shapley type operator in Pseudo-D-lattices. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 413-432., Registrované v: WOS

ADCA105 FRIČ, Roman - PAPČO, Martin. On probability domains. In *International Journal of Theoretical Physics*, 2010, vol. 49, s. 3092-3100. (2009: 0.688 - IF, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0020-7748.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADCA106 FRIČ, Roman - PAPČO, Martin. On probability domains II. In *International Journal of Theoretical Physics*, 2011, vol. 50, s. 3778-3786. (2010: 0.670 - IF, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0020-7748.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADCA107 FRIČ, Roman - PAPČO, Martin. Fuzzification of crisp domains. In *Kybernetika*, 2010, vol. 46, no. 6, s. 1009-1024. (2009: 0.445 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0023-5954.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADCA108 FRIČ, Roman - PAPČO, Martin. Probability: From classical to fuzzy. In *Fuzzy Sets and Systems*, 2017, vol. 326, p. 106-114. (2016: 2.718 - IF, Q1 - JCR, 1.408 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0165-0114.

Dostupné na internete:

<<http://www.sciencedirect.com/science/article/pii/S0165011417302658>>.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADCA109 FRIČ, Roman - PAPČO, Martin. On probability domains IV. In *International Journal of Theoretical Physics*, 2017, vol. 56, no. 12, p. 4084-4091. (2016: 0.964 - IF, Q3 - JCR, 0.297 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0020-7748.

Citácie:

1. [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

- ADCA110 FRIČ, Roman. Extension of domains of states. In *Soft Computing*, 2009, vol. 13, s. 63-70. (2008: 0.984 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1432-7643.

Citácie:

1. [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

- ADCA111 FRIČ, Roman - PAPČO, Martin. On probability domains III. In *International Journal of Theoretical Physics*, 2015, vol. 54, no. 12, p. 4237-4246. (2014: 1.184 - IF, Q3 - JCR, 0.416 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0020-7748. Dostupné na internete: <http://link.springer.com/article/10.1007/s10773-014-2471-4>.

Citácie:

1. [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

- ADCA112 GIUNTINI, R. - PULMANNOVÁ, Sylvia. Ideals and congruences in effect algebras and qmv-algebras. In *Communications in Algebra*, 2000, vol. 28, no. 3, p. 1567-1592. ISSN 0092-7872.

Citácie:

1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *Ideals and congruences in quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 12, p. 3879-3889., Registrované v: WOS

- ADCA113 GREECHIE, R. - FOULIS, D. - PULMANNOVÁ, Sylvia. The center of an effect algebra. In *Order*, 1995, vol. 12, no. 1, p. 91-106. ISSN 0167-8094.

Citácie:

1. [1.1] JI, Wei. *Meager projections in orthocomplete homogeneous effect algebras*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 339, no., p. 51-61., Registrované v: WOS

- ADCA114 GRENDÁR, Marián - NIVEN, R.K. The Pólya information divergence. In *Information Sciences*, 2010, vol. 180, no. 21, p. 4189-4194. (2009: 3.291 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0020-0255.

Citácie:

1. [3.1] LANTERI, Henri. *Divergences. Divergences invariantes. Applications aux problèmes inverses linéaires*. In *Archive ouverte HAL*, 2018, hal-01745256v2.

- ADCA115 GRENDÁR, Marián. Is the p-value a good measure of evidence? Asymptotic consistency criteria. In *Statistics & Probability Letters*, 2012, vol. 82, no. 6, p. 1116-1119. (2011: 0.498 - IF, 0.768 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0167-7152.

Citácie:

1. [3.1] MAČUTEK, Ján. *Jeden autor, osem žánrov a trochu matematiky (One author, eight genres, and some mathematics)*. In *NAŠE ŘEČ (OUR SPEECH)*. ISSN 0027-8203, 2018, vol. 101, no. 4, p. 233-237.

- ADCA116 GRENDÁR, Marián - JUDGE, George G. Asymptotic equivalence of empirical likelihood and Bayesian MAP. In *Annals of Statistics*, 2009, vol. 37, no. 5A, p. 2445-2457. (2008: 2.307 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0090-5364.

Citácie:

1. [1.1] CHIB, Siddhartha - SHIN, Minchul - SIMONI, Anna. *Bayesian Estimation and Comparison of Moment Condition Models*. In *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*. ISSN 0162-1459, 2018, vol. 113, no. 524, p. 1656-1668., Registrované v: WOS
2. [1.1] DROVANDI, Christopher C. - GRAZIAN, Clara - Mengersen, Kerrie - ROBERT, Christian. *Approximating the Likelihood in ABC*. In *HANDBOOK OF APPROXIMATE BAYESIAN COMPUTATION*, 2018, pp. 321-368., Registrované v: WOS
3. [3.1] BACKHOFF-VERAGUAS, Julio – FONTBONA, Joaquin - RIOS, Gonzalo – TOBAR, Felipe. *Bayesian Learning with Wasserstein Barycenters*. In *arXiv:1805.10833 [stat.ML]*, 2018.

ADCA117 GRUSKA, Jozef. A characterization of context-free languages. In *Journal of Computer and System Sciences*, 1971, vol. 5, p. 353-363. ISSN 0022-0000.

Citácie:

1. [1.1] GRATHWOHL, Niels Bjorn Bugge - HENGLEIN, Fritz - KOZEN, Dexter. *Infinitary Axiomatization of the Equational Theory of Context-Free Languages*. In *FUNDAMENTA INFORMATICA*. ISSN 0169-2968, 2017, vol. 150, no. 3-4, p. 241-257., Registrované v: WOS

ADCA118 GRUSKA, Jozef. On a classification of context-free languages. In *Kybernetika*, 1967, vol. 3, p. 22-29. ISSN 0023-5954.

Citácie:

1. [1.1] BORSOTTI, Angelo - BREVEGLIERI, Luca - REGHIZZI, Stefano Crespi - MORZENTI, Angelo. *Fast deterministic parsers for transition networks*. In *ACTA INFORMATICA*. ISSN 0001-5903, 2018, vol. 55, no. 7, p. 547-574., Registrované v: WOS

ADCA119 GRUSKA, Jozef. Some classifications of context-free languages. In *Information and Control*, 1969, vol. 14, no. 2, p. 152-173. ISSN 0019-9958.

Citácie:

1. [1.2] HETZL, Stefan - WOLFSTEINER, Simon. *Cover complexity of finite languages*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 10952 LNCS, p. 139-150., Registrované v: SCOPUS

ADCA120 GUDDER, Stanley - PULMANNOVÁ, Sylvia. Transition amplitude spaces. In *Journal of Mathematical Physics*, 1987, vol. 28, no. 2, p. 376-385. ISSN 0022-2488.

Citácie:

1. [1.1] GUOA, Xiao-Kan. *Transition probability spaces in loop quantum gravity*. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 3, art. nr. 32302., Registrované v: WOS

ADCA121 GUTA, Madalin - JENČOVÁ, Anna. Local Asymptotic Normality in Quantum Statistics. In *Communications in Mathematical Physics*, 2007, vol. 276, no. 2, p. 341-379. (2006: 2.077 - IF). ISSN 0010-3616.

Citácie:

1. [1.1] BENOIST, Tristan - GAMBOA, Fabrice - PELLEGRINI, Clement. *Quantum non demolition measurements: Parameter estimation for mixtures of multinomials*. In *ELECTRONIC JOURNAL OF STATISTICS*. ISSN 1935-7524, 2018, vol. 12, no. 1, pp. 555-571., Registrované v: WOS
2. [1.1] HAASE, J. F. - SMIRNE, A. - KOLODYNski, J. - DEMKOWICZ-DOBZANSKI, R. - HUELGA, S. F. *Fundamental limits to frequency estimation: a comprehensive microscopic perspective*. In *NEW JOURNAL OF PHYSICS*. ISSN 1367-2630, 2018, vol. 20, no., pp., Registrované v: WOS

3. [1.1] KURAMOCHI, Yui. Accessible Information Without Disturbing Partially Known Quantum States on a von Neumann Algebra. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*. ISSN 0020-7748, 2018, vol. 57, no. 8, pp. 2249-2266., Registrované v: WOS
 4. [1.1] KURAMOCHI, Yui. Quantum incompatibility of channels with general outcome operator algebras. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 4, pp., Registrované v: WOS
 5. [1.1] YANG, Yuxiang - BAI, Ge - CHIRIBELLA, Giulio - HAYASHI, Masahito. Compression for Quantum Population Coding. In *IEEE TRANSACTIONS ON INFORMATION THEORY*. ISSN 0018-9448, 2018, vol. 64, no. 7, pp. 4766-4783., Registrované v: WOS
- ADCA122 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Generalized comonotonicity and new axiomatizations of Sugeno integrals on bounded distributive lattices. In *International Journal of Approximate Reasoning*, 2017, vol. 81, p. 183-192. (2016: 2.845 - IF, Q2 - JCR, 1.275 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0888-613X. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0888613X16302481>>.
- Citácie:
1. [1.1] LI, Xin - ZHANG, Xiaohong. Sugeno Integral of Set-Valued Functions with Respect to Multi-submeasures and Its Application in MADM. In *INTERNATIONAL JOURNAL OF FUZZY SYSTEMS*. ISSN 1562-2479, 2018, vol. 20, no. 8, p. 2534-2544., Registrované v: WOS
- ADCA123 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Description of sup- and inf-preserving aggregation functions via families of clusters in data tables. In *Information Sciences*, 2017, vol. 400-401, p. 173-183. (2016: 4.832 - IF, Q1 - JCR, 1.781 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0020-0255. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0020025517305510>>.
- Citácie:
1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRÍDLO, Ondrej. On stability of fuzzy formal concepts over randomized one-sided formal context. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 36-53., Registrované v: WOS
 2. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS
- ADCA124 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. A new characterization of the discrete Sugeno integral. In *Information Fusion*, 2016, vol. 29, p. 84-86. (2015: 4.353 - IF, Q1 - JCR, 1.656 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1566-2535. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S1566253515000810>>.
- Citácie:
1. [1.1] BRABANT, Quentin - COUCEIRO, Miguel. k-maxitive Sugeno integrals as aggregation models for ordinal preferences. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 343, p. 65-75., Registrované v: WOS
 2. [1.1] CARDIN, Marta. Quantiles in Abstract Convex Structures. In *AXIOMS*. ISSN 2075-1680, 2018, vol. 7, no. 2, art. no. 35., Registrované v: WOS
 3. [1.1] CARDIN, Marta. Sugeno Integral on Property-Based Preference Domains. In *ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1*. ISSN 2194-5357, 2018, vol. 641, p. 400-407., Registrované v: WOS

- ADCA125 HALAŠ, Radomír - MESIAR, Radko - PÓCS, Jozef. Congruences and the discrete Sugeno integrals on bounded distributive lattices. In *Information Sciences*, 2016, vol. 367-368, p. 443-448. (2015: 3.364 - IF, Q1 - JCR, 2.069 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-0255. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S002002551630439X>>.
- Citácie:
1. [1.1] *CARDIN, Marta. Quantiles in Abstract Convex Structures. In AXIOMS. ISSN 2075-1680, 2018, vol. 7, no. 2, art. no. 35., Registrované v: WOS*
 2. [1.1] *CARDIN, Marta. Sugeno Integral on Property-Based Preference Domains. In ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1. ISSN 2194-5357, 2018, vol. 641, p. 400-407., Registrované v: WOS*
- ADCA126 HALAŠ, Radomír - PÓCS, Jozef. Generalized one-sided concept lattices with attribute preferences. In *Information Sciences*, 2015, vol. 303, p. 50-60. (2014: 4.038 - IF, Q1 - JCR, 2.226 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255.
- Citácie:
1. [1.1] *ANTONI, Lubomir - KRAJCI, Stanislav - KRÍDLO, Ondrej. On stability of fuzzy formal concepts over randomized one-sided formal context. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 333, p. 36-53., Registrované v: WOS*
 2. [1.2] *ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In Studies in Computational Intelligence. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS*
- ADCA127 HEINONEN, T. - LAHTI, P. - PELONPAA, J.P. - PULMANNOVÁ, Sylvia. The norm-1-property of a quantum observable. T. Heinonen, P. Lahti, J.P. Pelonpaa, S. Pulmannová. In *Journal of Mathematical Physics*, 2003, vol. 44, no. 5, p. 1998-2008. ISSN 0022-2488.
- Citácie:
1. [1.1] *LOVERIDGE, Leon - MIYADERA, Takayuki - BUSCH, Paul. Symmetry, Reference Frames, and Relational Quantities in Quantum Mechanics. In FOUNDATIONS OF PHYSICS. ISSN 0015-9018, 2018, vol. 48, no. 2, p. 135-198., Registrované v: WOS*
- ADCA128 HOLÁ, Ľubica - NOVOTNÝ, Branislav. Topology of uniform convergence and m-topology on $C(X)$. In *Mediterranean Journal of Mathematics*, 2017, vol. 14, no. 2, art. no. 70. (2016: 0.868 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1660-5446. Dostupné na internete: <<https://link.springer.com/content/pdf/10.1007%2Fs00009-017-0861-6.pdf>>.
- Citácie:
1. [3.1] *McCOY, Robert A. - KUNDU, Subiman - JINDAL, Varun. Function Spaces with Uniform, Fine and Graph Topologies. Cham: Springer, 2018. 106 p. ISBN 978-3-319-77053-6.*
- ADCA129 HOLÁ, Ľubica - NOVOTNÝ, Branislav. Topology of uniform convergence and Čech-Stone compactification. In *Journal of Mathematical Analysis and Applications*, 2015, vol. 424, p. 470-474. (2014: 1.120 - IF, Q1 - JCR, 1.315 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0022-247X.
- Citácie:
1. [3.1] *McCOY, Robert A. - KUNDU, Subiman - JINDAL, Varun. Function Spaces with Uniform, Fine and Graph Topologies. Cham: Springer, 2018. 106 p. ISBN 978-3-319-77053-6.*

- ADCA130 HUCK, A. - KOCHOL, Martin. Five cycle double covers of some cubic graphs. In Journal of Combinatorial Theory, Series B, 1995, vol. 64, p. 119-125. ISSN 0095-8956.
- Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, pp., Registrované v: WOS
 2. [1.1] HAO, Rong-Xia - ZHANG, Cun-Quan - ZHENG, Ting. Berge-Fulkerson coloring for C-(8)-linked graphs. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 88, no. 1, pp. 46-60., Registrované v: WOS
 3. [1.1] LUKOT', KA, Robert - MAZAK, Jan. Weak oddness as an approximation of oddness and resistance in cubic graphs. In DISCRETE APPLIED MATHEMATICS. ISSN 0166-218X, 2018, vol. 244, no., pp. 223-226., Registrované v: WOS
 4. [1.1] ZASLAVSKY, Thomas. Negative (and positive) circles in signed graphs: A problem collection. In AKCE INTERNATIONAL JOURNAL OF GRAPHS AND COMBINATORICS. ISSN 0972-8600, 2018, vol. 15, no. 1, pp. 31-48., Registrované v: WOS
- ADCA131 JAKUBEC, Stanislav - PAŠTÉKA, Milan - SCHINZEL, A. Class number of real Abelian fields. In Journal of Number Theory, 2015, vol. 148, p. 365-371. (2014: 0.593 - IF, Q3 - JCR, 1.103 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0022-314X.
- Citácie:
1. [1.1] FUJIMA, Shoichi - ICHIMURA, Humio. Note on the Class Number of the p th Cyclotomic Field, II. In EXPERIMENTAL MATHEMATICS. ISSN 1058-6458, 2018, vol. 27, no. 1, pp. 111-118., Registrované v: WOS
 2. [1.1] ICHIMURA, Humio. Triviality of Iwasawa module associated to some abelian fields of prime conductors. In ABHANDLUNGEN AUS DEM MATHEMATISCHEN SEMINAR DER UNIVERSITÄT HAMBURG. ISSN 0025-5858, 2018, vol. 88, no. 1, pp. 51-66., Registrované v: WOS
- ADCA132 JENČA, G. - PULMANNOVÁ, Sylvia. Orthocomplete effect algebras. In Proceedings of the American Mathematical Society, 2003, vol. 131, p. 2663-2671. ISSN 0002-9939.
- Citácie:
1. [1.1] JI, Wei. Meager projections in orthocomplete homogeneous effect algebras. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 339, no., p. 51-61., Registrované v: WOS
- ADCA133 JENČOVÁ, Anna. A construction of a nonparametric quantum information manifold. In Journal of Functional Analysis, 2006, vol. 239, s. 1-20. ISSN 0022-1236.
- Citácie:
1. [1.1] NAUDTS, Jan. Quantum Statistical Manifolds (vol 20, 472, 2018). In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 10, pp., Registrované v: WOS
- ADCA134 JENČOVÁ, Anna - PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Observables on sigma-MV algebras and sigma-lattice effect algebras. In Kybernetika, 2011, vol. 47, p. 541-559. (2010: 0.461 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0023-5954.

Citácie:

1. [1.1] DVURECENSKIJ, Anatolij. Markov kernels and tribes. In *INFORMATION SCIENCES*. ISSN 0020-0255, 2018, vol. 460, p. 42-50., Registrované v: WOS
2. [1.1] DVURECENSKIJ, Anatolij. Quantum Observables and Effect Algebras. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*. ISSN 0020-7748, 2018, vol. 57, no. 3, p. 637-651., Registrované v: WOS
3. [1.1] DVURECENSKIJ, Anatolij. Sum of observables on MV-effect algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2485-2493., Registrované v: WOS
4. [1.1] JANDA, Jiri - XIE, Yongjian. The spectrum of the sum of observables on sigma-complete MV-effect algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, pp. 8041-8049., Registrované v: WOS

ADCA135 JENČOVÁ, Anna. Geometry of quantum states: Dual connections and divergence functions. In *Reports on Mathematical Physics*, 2001, s. 121-138. ISSN 0034-4877.

Citácie:

1. [1.1] NAUDTS, Jan. Quantum Statistical Manifolds (vol 20, 472, 2018). In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 10, pp., Registrované v: WOS

ADCA136 JENČOVÁ, Anna. Quantum information geometry and standard purification. In *Journal of Mathematical Physics*, 2002, vol. 43, no. 5, p. 2187-2201. ISSN 0022-2488.

Citácie:

1. [1.1] VIENNOT, David. Purification of Lindblad dynamics, geometry of mixed states and geometric phases. In *JOURNAL OF GEOMETRY AND PHYSICS*. ISSN 0393-0440, 2018, vol. 133, no., pp. 42-70., Registrované v: WOS

ADCA137 JENČOVÁ, Anna. Preservation of a quantum Rényi relative entropy implies existence of a recovery map. In *Journal of Physics A: Mathematical and Theoretical*, 2017, vol. 50, no. 8, art. no. 085303. (2016: 1.865 - IF, Q1 - JCR, 0.935 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1751-8113.

Citácie:

1. [1.1] JAQUES, Samuel - RAHAMAN, Mizanur. Spectral properties of tensor products of channels. In *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*. ISSN 0022-247X, 2018, vol. 465, no. 2, pp. 1134-1158., Registrované v: WOS

ADCA138 JENČOVÁ, Anna. Rényi relative entropies and noncommutative Lp-spaces. In *Annales Henri Poincare*, 2018, vol. 19, no. 8, p. 2513-2542. (2017: 1.740 - IF, Q2 - JCR, 1.097 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1424-0637. Dostupné na internete:

<<https://link.springer.com/content/pdf/10.1007%2Fs00023-018-0683-5.pdf>>.

Citácie:

1. [1.1] CASINI, Horacio - MEDINA, Raimel - SALAZAR LANDEA, Ignacio - TORROBA, Gonzalo. Renyi relative entropies and renormalization group flows. In *JOURNAL OF HIGH ENERGY PHYSICS*. ISSN 1029-8479, 2018, vol., no. 9, pp., Registrované v: WOS
2. [1.1] HIAI, Fumio. Quantum f-divergences in von Neumann algebras. I. Standard f-divergences. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 10, pp., Registrované v: WOS
3. [1.1] WILDE, Mark M. Optimized quantum f-divergences and data processing. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*. ISSN 1751-8113, 2018, vol. 51, no. 37, pp., Registrované v: WOS

- ADCA139 JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. How sharp are PV measures? In Reports on Mathematical Physics, 2007, vol. 59, no. 2, p. 257-266. ISSN 0034-4877.
Citácie:
1. [1.1] *BENEDUCI, R. Commutative POV-Measures: from the Choquet Representation to the Markov Kernel and Back. In RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS. ISSN 1061-9208, 2018, vol. 25, no. 2, pp. 158-182., Registrované v: WOS*
- ADCA140 JENČOVÁ, Anna. On the convex structure of process positive operator valued measures. In Journal of Mathematical Physics, 2016, vol. 57, no. 1, 14 p. (2015: 1.234 - IF, Q2 - JCR, 0.772 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-2488.
Citácie:
1. [1.1] *MAGAJNA, Bojan. Maps with the Unique Extension Property and C*-Extreme Points. In COMPLEX ANALYSIS AND OPERATOR THEORY. ISSN 1661-8254, 2018, vol. 12, no. 8, pp. 1903-1927., Registrované v: WOS*
- ADCA141 JENČOVÁ, Anna. Generalized channels: Channels for convex subsets of the state space. In Journal of Mathematical Physics, 2012, vol. 53, art. no. 012201. (2011: 1.291 - IF, 0.782 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-2488.
Citácie:
1. [1.1] *CHRUSCINSKI, Dariusz - RIVAS, Angel - STORMER, Erling. Divisibility and Information Flow Notions of Quantum Markovianity for Noninvertible Dynamical Maps. In PHYSICAL REVIEW LETTERS. ISSN 0031-9007, 2018, vol. 121, no. 8, pp., Registrované v: WOS*
- ADCA142 JENČOVÁ, Anna. Reversibility conditions for quantum operations. In Reviews in Mathematical Physics, 2012, vol. 24, art. no. 1250016. (2011: 1.213 - IF, 0.838 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0129-055X.
Citácie:
1. [1.1] *HIAI, Fumio. Quantum f-divergences in von Neumann algebras. I. Standard f-divergences. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2018, vol. 59, no. 10, pp., Registrované v: WOS*
2. [1.1] *JAKUES, Samuel - RAHAMAN, Mizanur. Spectral properties of tensor products of channels. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS. ISSN 0022-247X, 2018, vol. 465, no. 2, pp. 1134-1158., Registrované v: WOS*
3. [1.1] *NOVOTNY, J. - MARYSKA, J. - JEX, I. Quantum Markov processes: From attractor structure to explicit forms of asymptotic states Asymptotic dynamics of quantum Markov processes. In EUROPEAN PHYSICAL JOURNAL PLUS. ISSN 2190-5444, 2018, vol. 133, no. 8, pp., Registrované v: WOS*
4. [1.1] *PUZZUOLI, Daniel. Characterization of linear maps on M-n whose multiplicity maps have maximal norm with an application in quantum information. In QUANTUM. ISSN 2521-327X, 2018, vol. 2, no., pp., Registrované v: WOS*
- ADCA143 JENČOVÁ, Anna. Geodesic distances on density matrices. In Journal of Mathematical Physics, 2004, vol. 45, s. 1787-1794. ISSN 0022-2488.
Citácie:
1. [1.1] *BENY, Cedric. Coarse-grained distinguishability of field interactions. In QUANTUM. ISSN 2521-327X, 2018, vol. 2, no., pp., Registrované v: WOS*

2. [1.1] BHATIA, Rajendra - JAIN, Tanvi - LIM, Yongdo. Strong convexity of sandwiched entropies and related optimization problems. In *REVIEWS IN MATHEMATICAL PHYSICS*. ISSN 0129-055X, 2018, vol. 30, no. 9, pp., Registrované v: WOS
 3. [1.1] SHIVAM, Kumar - REDDY, Anirudh - SAMUEL, Joseph - SINHA, Supurna. Entropy and geometry of quantum states. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*. ISSN 0219-7499, 2018, vol. 16, no. 4, pp., Registrované v: WOS
- ADCA144 JENČOVÁ, Anna - PULMANNOVÁ, Sylvia. Characterizations of commutative POV measures. In *Foundations of Physics*, 2009, vol. 39, s. 613-624. (2008: 0.829 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0015-9018.
Citácie:
1. [1.1] BENEDUCI, R. Commutative POV-Measures: from the Choquet Representation to the Markov Kernel and Back. In *RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 1061-9208, 2018, vol. 25, no. 2, pp. 158-182., Registrované v: WOS
- ADCA145 JENČOVÁ, Anna - PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Sharp and fuzzy observables on effect algebras. In *International Journal of Theoretical Physics*, 2008, vol. 47, p. 125-148. (2007: 0.489 - IF). (2008 - SCOPUS). ISSN 0020-7748.
Citácie:
1. [1.1] DVURECENSKIJ, Anatolij. Quantum Observables and Effect Algebras. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*. ISSN 0020-7748, 2018, vol. 57, no. 3, p. 637-651., Registrované v: WOS
 2. [1.1] JANDA, Jiri - XIE, Yongjian. The spectrum of the sum of observables on sigma-complete MV-effect algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
 3. [1.1] KURAMOCHI, Yui. Quantum incompatibility of channels with general outcome operator algebras. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 4, art. no. 042203., Registrované v: WOS
- ADCA146 JENČOVÁ, Anna. Base norms and discrimination of generalized quantum channels. In *Journal of Mathematical Physics*, 2014, vol. 55, no. 2, p. 1-17. (2013: 1.176 - IF, 0.783 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0022-2488.
Citácie:
1. [1.1] REGULA, Bartosz. Convex geometry of quantum resource quantification. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*. ISSN 1751-8113, 2018, vol. 51, no. 4, pp., Registrované v: WOS
- ADCA147 JENČOVÁ, Anna - PETZ, D. Sufficiency in quantum statistical inference. In *Communications in Mathematical Physics*, 2006, vol. 263, p. 259-276. (2006 - Current Contents). ISSN 0010-3616.
Citácie:
1. [1.1] HAAPASALO, Erkka - HEINOSAARI, Teiko - MIYADERA, Takayuki. The unavoidable information flow to environment in quantum measurements. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 8, pp., Registrované v: WOS
 2. [1.1] HIAI, Fumio. Quantum f -divergences in von Neumann algebras. I. Standard f -divergences. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 10, pp., Registrované v: WOS
 3. [1.1] JUNGE, Marius - RENNER, Renato - SUTTER, David - WILDE, Mark M. - WINTER, Andreas. Universal Recovery Maps and Approximate Sufficiency of Quantum Relative Entropy. In *ANNALES HENRI POINCARÉ*. ISSN 1424-0637, 2018, vol. 19, no. 10, pp. 2955-2978., Registrované v: WOS

4. [1.1] KURAMOCHI, Yui. Accessible Information Without Disturbing Partially Known Quantum States on a von Neumann Algebra. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*. ISSN 0020-7748, 2018, vol. 57, no. 8, pp. 2249-2266., Registrované v: WOS
5. [1.1] KURAMOCHI, Yui. Quantum incompatibility of channels with general outcome operator algebras. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 4, pp., Registrované v: WOS
6. [1.2] PANDISCIA, Carlo. Reversible part of quantum dynamical systems: A review. In *Confluentes Mathematici*. ISSN 17937442, 2018-01-01, 10, 2, pp. 51-74., Registrované v: SCOPUS

ADCA148 JENČOVÁ, Anna - PLÁVALA, Martin. Conditions for optimal input states for discrimination of quantum channels. In *Journal of Mathematical Physics*, 2016, vol. 57, no. 12, art. no. 122203, [p. 1-20]. (2015: 1.234 - IF, Q2 - JCR, 0.772 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-2488.

Citácie:

1. [1.1] CAIAFFA, Matteo - PIANI, Marco. Channel discrimination power of bipartite quantum states. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 97, no. 3, art. no. 032334., Registrované v: WOS
2. [1.1] NECHITA, Ion - PUCHALA, Zbigniew - PAWELA, Lukasz - ZYCZKOWSKI, Karol. Almost all quantum channels are equidistant. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 5, art. no. 052201., Registrované v: WOS
3. [1.1] PUCHALA, Zbigniew - PAWELA, Lukasz - KRAWIEC, Aleksandra - KUKULSKI, Ryszard. Strategies for optimal single-shot discrimination of quantum measurements. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 98, no. 4., Registrované v: WOS
4. [1.1] PUZZUOLI, Daniel. Characterization of linear maps on M_n whose multiplicity maps have maximal norm with an application in quantum information. In *QUANTUM*. ISSN 2521-327X, 2018, vol. 2, art. no. UNSP 51., Registrované v: WOS
5. [1.1] SIUDZINSKA, Katarzyna - CHRUSCINSKI, Dariusz. Quantum channels irreducibly covariant with respect to the finite group generated by the Weyl operators. In *JOURNAL OF MATHEMATICAL PHYSICS*. ISSN 0022-2488, 2018, vol. 59, no. 3, art. no. 033508., Registrované v: WOS
6. [1.2] BERTA, Mario - SCHOLZ, Volkher B. - TOMAMICHEL, Marco. Rényi Divergences as Weighted Non-commutative Vector-Valued L^p Spaces. In *Annales Henri Poincaré*. ISSN 14240637, 2018-06-01, 19, 6, p. 1843-1867., Registrované v: SCOPUS

ADCA149 JENČOVÁ, Anna. Incompatible measurements in a class of general probabilistic theories. In *Physical Review A*, 2018, vol. 98, no. 1, art. no. 012133. (2017: 2.909 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1050-2947. Dostupné na internete: <https://journals.aps.org/prapdf/10.1103/PhysRevA.98.012133>.

Citácie:

1. [1.1] CARMELI, Claudio - HEINOSAARI, Teiko - TOIGO, Alessandro. State discrimination with postmeasurement information and incompatibility of quantum measurements. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 98, no. 1, art. nr. 12126., Registrované v: WOS

- ADCA150 JENČOVÁ, Anna - PLÁVALA, Martin. Conditions on the existence of maximally incompatible two-outcome measurements in general probabilistic theory. In *Physical Review A*, 2017, vol. 96, no. 2, art. no. 022113, [p. 1-7]. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947.
Citácie:
1. [1.1] *FILIPPOV, Sergey N. - HEINOSAARI, Teiko - LEPPAJARVI, Leevi. Simulability of observables in general probabilistic theories. In PHYSICAL REVIEW A. ISSN 2469-9926, 2018, vol. 97, no. 6, art. no. 062102., Registrované v: WOS*
2. [1.1] *SELBY, John H. - SIKORA, Jamie. How to make unforgeable money in generalised probabilistic theories. In QUANTUM. ISSN 2521-327X, 2018, vol. 2, p. 103., Registrované v: WOS*
3. [1.1] *SIKORA, Jamie - SELBY, John. Simple proof of the impossibility of bit commitment in generalized probabilistic theories using cone programming. In PHYSICAL REVIEW A. ISSN 2469-9926, 2018, vol. 97, no. 4, art. no. 042302., Registrované v: WOS*
- ADCA151 JIRÁSEK, J. - JIRÁSKOVÁ, Galina - SZABARI, A. State complexity of concatenation and complementation. In *International Journal of Foundations of Computer Science*, 2005, vol. 16, no. 3, p. 511-529. ISSN 0129-0541.
Citácie:
1. [1.1] *CARON, Pascal - LUQUE, Jean-Gabriel - PATROU, Bruno. State Complexity of Multiple Catenations. In FUNDAMENTA INFORMATICAЕ. ISSN 0169-2968, 2018, vol. 160, no. 3, p. 255-279., Registrované v: WOS*
- ADCA152 JIRÁSKOVÁ, Galina. Magic numbers and ternary alphabet. In *International Journal of Foundations of Computer Science*, 2011, vol. 22, no. 2, p. 331-344. (2010: 0.459 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0129-0541.
Citácie:
1. [1.1] *HOSPODAR, Michal - HOLZER, Markus. The Ranges of Accepting State Complexities of Languages Resulting From Some Operations. In IMPLEMENTATION AND APPLICATION OF AUTOMATA, CIAA 2018. ISSN 0302-9743, 2018, vol. 10977, no., p. 198-210., Registrované v: WOS*
- ADCA153 JIRÁSKOVÁ, Galina - OKHOTIN, A. On the state complexity of star of union and star of intersection. In *Fundamenta Informaticae*, 2011, vol. 109, no. 2, p. 161-178. (2010: 0.522 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0169-2968.
Citácie:
1. [1.1] *CARON, Pascal - LUQUE, Jean-Gabriel - PATROU, Bruno. State Complexity of Multiple Catenations. In FUNDAMENTA INFORMATICAЕ. ISSN 0169-2968, 2018, vol. 160, no. 3, p. 255-279., Registrované v: WOS*
- ADCA154 JIRÁSKOVÁ, Galina - PIGHIZZINI, G. Optimal simulation of self-verifying automata by deterministic automata. In *Information and Computation*, 2011, vol. 209, no. 3, p. 528-535. (2010: 0.825 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0890-5401.
Citácie:
1. [1.2] *HOLZER, Markus - JAKOBI, Sebastian - JIRÁSEK, Jozef. Computational Complexity of Decision Problems on Self-verifying Finite Automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11088 LNCS, p. 404-415., Registrované v: SCOPUS*

2. [1.2] KUTRIB, Martin - WORSCH, Thomas. *Self-verifying Cellular Automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11115 LNCS, p. 340-351., Registrované v: SCOPUS*
- ADCA155 JIRÁSKOVÁ, Galina - ŠEBEJ, J. Reversal of binary regular languages. In *Theoretical Computer Science*, 2012, vol. 449, p. 85-92. (2011: 0.665 - IF, 0.810 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0304-3975.
- Citácie:
1. [1.1] DAVIES, Sylvie. *State Complexity of Reversals of Deterministic Finite Automata with Output. In IMPLEMENTATION AND APPLICATION OF AUTOMATA, CIAA 2018. ISSN 0302-9743, 2018, vol. 10977, no., p. 133-145., Registrované v: WOS*
2. [1.1] HOSPODAR, Michal - HOLZER, Markus. *The Ranges of Accepting State Complexities of Languages Resulting From Some Operations. In IMPLEMENTATION AND APPLICATION OF AUTOMATA, CIAA 2018. ISSN 0302-9743, 2018, vol. 10977, no., p. 198-210., Registrované v: WOS*
3. [1.2] DAVIES, Sylvie. *A General Approach to State Complexity of Operations: Formalization and Limitations. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11088 LNCS, p. 256-268., Registrované v: SCOPUS*
- ADCA156 JIRÁSKOVÁ, Galina - MASOPUST, T. On a structural property in the state complexity of projected regular languages. In *Theoretical Computer Science*, 2012, vol. 449, p. 93-105. (2011: 0.665 - IF, 0.810 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0304-3975.
- Citácie:
1. [1.2] COSTA, Gabriele - BASIN, David - BODEI, Chiara - DEGANO, Pierpaolo - GALLETTA, Letterio. *From natural projection to partial model checking and back. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 10805 LNCS, p. 344-361., Registrované v: SCOPUS*
- ADCA157 JIRÁSKOVÁ, Galina - MASOPUST, T. Complexity in union-free regular languages. In *International Journal of Foundations of Computer Science*, 2011, vol. 22, no. 7, p. 1639-1653. (2010: 0.459 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0129-0541.
- Citácie:
1. [1.1] BRZOZOWSKI, Janusz A. - DAVIES, Sylvie. *Most Complex Deterministic Union-Free Regular Languages. In DESCRIPTONAL COMPLEXITY OF FORMAL SYSTEMS, DCFS 2018. ISSN 0302-9743, 2018, vol. 10952, no., p. 37-48., Registrované v: WOS*
- ADCA158 JIRÁSKOVÁ, Galina - OKHOTIN, A. State complexity of cyclic shift. In *RAIRO Theoretical Informatics and Applications*, 2008, vol. 42, no. 2, p. 335-360. ISSN 0988-3754.
- Citácie:
1. [1.2] DAVIES, Sylvie. *A General Approach to State Complexity of Operations: Formalization and Limitations. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11088 LNCS, p. 256-268., Registrované v: SCOPUS*

- ADCA159 JIRÁSKOVÁ, Galina. State complexity of some operations on binary regular languages. In Theoretical Computer Science, 2005, vol. 330, no. 2, p. 287-298. ISSN 0304-3975.
Citácie:
1. [1.1] CARON, Pascal - LUQUE, Jean-Gabriel - PATROU, Bruno. State Complexity of Multiple Catenations. In FUNDAMENTA INFORMATICA. ISSN 0169-2968, 2018, vol. 160, no. 3, p. 255-279., Registrované v: WOS
2. [1.2] ENDENCIO-ROBLES, Daisy T. - ROBLES, Rosslin John. Analysis of regular operations application and finite automata. In International Journal of Advanced Science and Technology. ISSN 20054238, 2018, vol. 118, p. 151-160., Registrované v: SCOPUS
- ADCA160 JONES, G. - NEDELA, Roman - ŠKOVIERA, M. Complete bipartite graphs with a unique regular embedding. In Journal of Combinatorial Theory, Series B, 2008, vol. 98, s. 241-248. ISSN 0095-8956.
Citácie:
1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. A Classification of Orientably Edge-Transitive Circular Embeddings of. In ANNALS OF COMBINATORICS. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS
2. [1.1] FAN, Wenwen - LI, Cai Heng. The complete bipartite graphs with a unique edge-transitive embedding. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 87, no. 4, p. 581-586., Registrované v: WOS
3. [1.1] KOVACS, Istvan - KUTNAR, Klavdija - MARUSIC, Dragan - PELLICER, Daniel. On even-closed regular embeddings of graphs. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 73, p. 153-169., Registrované v: WOS
- ADCA161 JUREČKA, S. - KOBAYASHI, H. - TAKAHASHI, M. - MATSUMOTO, T. - JUREČKOVÁ, Mária - CHOVANEC, F. - PINČÍK, Emil. On the influence of the surface roughness onto the ultrathin SiO₂/ Si structure properties. In Applied Surface Science, 2010, vol. 256, p. 5623-5628. (2009: 1.616 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0169-4332.
Citácie:
1. [1.1] GARG, Kavita - RAICHLIN, Sara - BENDIKOV, Tatyana - PECHT, Israel - SHEVES, Mordechai - CAHEN, David. Interface Electrostatics Dictates the Electron Transport via Bioelectronic Junctions. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 48, pp. 41599-41607., Registrované v: WOS
- ADCA162 Kardoš, František - PÓCS, Jozef - PÓCSOVÁ, Jana. On concept reduction based on some graph properties. In Knowledge-Based Systems, 2016, vol. 93, p. 67-74. (2015: 3.325 - IF, Q1 - JCR, 1.801 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0950-7051. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0950705115004219>>.
Citácie:
1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRIDLO, Ondrej. On stability of fuzzy formal concepts over randomized one-sided formal context. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 333, p. 36-53., Registrované v: WOS

2. [1.1] BUTKA, Peter - LOW, Thomas - KOTZYBA, Michael - HAUN, Stefan - NUERNBERGER, Andreas. *Exploration of Web Search Results Based on the Formal Concept Analysis*. In SEMANTIC KEYWORD-BASED SEARCH ON STRUCTURED DATA SOURCES, IKC 2017. ISSN 0302-9743, 2018, vol. 10546, p. 123-135., Registrované v: WOS
 3. [1.1] DO, Nhon V. - NGUYEN, Hien D. - SELAMAT, Ali. *Knowledge-Based Model of Expert Systems Using Rela-Model*. In INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING. ISSN 0218-1940, 2018, vol. 28, no. 8, p. 1047-1090., Registrované v: WOS
 4. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. *On fuzzy generalizations of concept lattices*. In Studies in Computational Intelligence. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS
- ADCA163 KELEMENOVÁ, Alica. Complexity of normal form grammars. In Theoretical Computer Science, 1984, vol. 28, no. 3, p. 299-314. ISSN 0304-3975.
- Citácie:
1. [1.1] OKHOTIN, Alexander. *Underlying Principles and Recurring Ideas of Formal Grammars*. In LANGUAGE AND AUTOMATA THEORY AND APPLICATIONS (LATA 2018). ISSN 0302-9743, 2018, vol. 10792, no., pp. 36-59., Registrované v: WOS
 2. [1.2] GUILLON, Bruno - PIGHIZZINI, Giovanni - PRIGIONIERO, Luca. *Non-self-embedding grammars, constant-height pushdown automata, and limited automata*. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018-01-01, 10977 LNCS, pp. 186-197., Registrované v: SCOPUS
- ADCA164 KLIMO, Martin - TARÁBEK, Peter - ŠUCH, Ondrej - SMIEŠKO, Juraj - ŠKVAREK, Ondrej. Implementation of a deep ReLU neuron network with a memristive circuit. In International Journal on Unconventional Computing, 2016, vol. 12, no. 4, p. 319-337. (2015: 0.739 - IF, Q3 - JCR, 0.330 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1548-7199.
- Citácie:
1. [1.1] URAMOVA, Jana - SEGEC, Pavel - MORAVCIK, Marek - PAPAN, Jozef - KONTSEK, Martin - HRABOVSKY, Jakub. *Infrastructure for generating new IDS dataset*. In 2018 16TH INTERNATIONAL CONFERENCE ON EMERGING ELEARNING TECHNOLOGIES AND APPLICATIONS (ICETA), 2018, p. 603-609., Registrované v: WOS
- ADCA165 KOCHOL, Martin. Smallest counterexample to the 5-flow conjecture has girth at least eleven. In Journal of Combinatorial Theory, Series B, 2010, vol. 100, p. 381-389. (2009: 1.155 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0095-8956.
- Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. *Measures of edge-uncolorability of cubic graphs*. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
- ADCA166 KOCHOL, Martin - LOZIN, V. - RANDERATH, B. The 3-colorability problem on graphs with maximum degree four. In SIAM Journal on Computing, 2003, vol. 32, s. 1128-1139. ISSN 0097-5397.
- Citácie:
1. [1.1] EIBEN, Eduard - GANIAN, Robert - SZEIDER, Stefan. *Solving Problems on Graphs of High Rank-Width*. In ALGORITHMICA. ISSN 0178-4617, 2018, vol. 80, no. 2, p. 742-771., Registrované v: WOS

- ADCA167 KOCHOL, Martin. Polyhedral embeddings of snarks in orientable surfaces. In Proceedings of the American Mathematical Society, 2009, vol. 137, no. 5, p. 1613-1619. ISSN 0002-9939.
- Citácie:
1. [1.1] ASAYAMA, Yoshihiro - MATSUMOTO, Naoki - NAKAMOTO, Atsuhiko - OGANO, Shota. Generating Even Triangulations on the Klein Bottle. In GRAPHS AND COMBINATORICS. ISSN 0911-0119, 2018, vol. 34, no. 4, p. 727-757., Registrované v: WOS
 2. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
 3. [1.1] KOTRBCIK, Michal - MATSUMOTO, Naoki - MOHAR, Bojan - NAKAMOTO, Atsuhiko - NOGUCHI, Kenta - OZEKI, Kenta - VODOPIVEC, Andrej. Grunbaum colorings of even triangulations on surfaces. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 87, no. 4, p. 475-491., Registrované v: WOS
 4. [1.1] MATSUMOTO, Naoki - NAKAMOTO, Atsuhiko - YAMAGUCHI, Tsubasa. Generating even triangulations on the torus. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 7, p. 2035-2048., Registrované v: WOS
 5. [1.2] HELLMUTH, Marc - KNUDSEN, Anders S. - KOTRBÍK, Michal - MERKLE, Daniel - NØJGAARD, Nikolai. Linear time canonicalization and enumeration of non-Isomorphic 1-Face embeddings. In Proceedings of the Workshop on Algorithm Engineering and Experiments. ISSN 21640300, 2018-01-01, 2018-January, p. 154-168., Registrované v: SCOPUS
- ADCA168 KOCHOL, Martin. Reduction of the 5-flow conjecture to cyclically 6-edge-connected snarks. In Journal of Combinatorial Theory, Series B, 2004, vol. 90, p. 139-145. ISSN 0095-8956.
- Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
 2. [1.1] GOEDGEBEUR, Jan - ZAMFIRESCU, Carol T. On hypohamiltonian snarks and a theorem of Fiorini. In ARS MATHEMATICA CONTEMPORANEA. ISSN 1855-3966, 2018, vol. 14, no. 2, p. 227-249., Registrované v: WOS
- ADCA169 KOCHOL, Martin. Tension polynomials on graphs. In Journal of Graph Theory, 2002, vol. 40, no. 3, p. 137-146. ISSN 0364-9024.
- Citácie:
1. [1.1] CHEN, Beifang. Orientations, lattice polytopes, and group arrangements III: Cartesian product arrangements and applications to Tutte type polynomials. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 71, no., p. 139-173., Registrované v: WOS
- ADCA170 KOCHOL, Martin. An equivalent version of the 3-flow conjecture. In Journal of Combinatorial Theory, Series B, 2001, vol. 83, p. 258-261. ISSN 0095-8956.
- Citácie:
1. [1.1] HAN, Miaomiao - LAI, Hong-Jian - LI, Jiaao. Modulo orientations with bounded independence number. In DISCRETE APPLIED MATHEMATICS. ISSN 0166-218X, 2018, vol. 247, no., pp. 14-22., Registrované v: WOS

2. [1.1] HAN, Miaomiao - LAI, Hong-Jian - LI, Jiaao. Nowhere-zero 3-flow and Z3-connectedness in graphs with four edge-disjoint spanning trees. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 88, no. 4, p. 577-591., Registrované v: WOS
 3. [1.1] HAN, Miaomiao - LI, Jiaao - WU, Yezhou - ZHANG, Cun-Quan. Counterexamples to Jaeger's Circular Flow Conjecture. In JOURNAL OF COMBINATORIAL THEORY SERIES B. ISSN 0095-8956, 2018, vol. 131, no., p. 1-11., Registrované v: WOS
 4. [1.1] LI, Jiaao - HOU, Xinmin - HAN, Miaomiao - LAI, Hong-Jian. MOD $(2p+1)$ -ORIENTATION ON BIPARTITE GRAPHS AND COMPLEMENTARY GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2018, vol. 32, no. 1, p. 29-43., Registrované v: WOS
 5. [1.1] LI, Jiaao - LUO, Rong - MA, Hongping - ZHANG, Cun-Quan. Flow-contractible configurations and group connectivity of signed graphs. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 11, p. 3227-3236., Registrované v: WOS
 6. [1.1] LI, Jiaao - LUO, Rong - WANG, Yi. Nowhere-zero 3-flow of graphs with small independence number. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 1, p. 42-50., Registrované v: WOS
- ADCA171 KOCHOL, Martin. Polynomials associated with nowhere-zero flows. In Journal of Combinatorial Theory, Series B, 2002, vol. 84, p. 260-269. ISSN 0095-8956.
Citácie:
1. [1.1] CHEN, Beifang. Orientations, lattice polytopes, and group arrangements III: Cartesian product arrangements and applications to Tutte type polynomials. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 71, no., p. 139-173., Registrované v: WOS
 2. [1.1] GOODALL, Andrew - KRAJEWSKI, Thomas - REGTS, Guus - VENA, Lluís. A Tutte Polynomial for Maps. In COMBINATORICS PROBABILITY & COMPUTING. ISSN 0963-5483, 2018, vol. 27, no. 6, p. 913-945., Registrované v: WOS
 3. [1.1] NISHIYAMA, Hiroshi - KOBAYASHI, Yusuke - YAMAUCHI, Yukiko - KIJIMA, Shuji - YAMASHITA, Masafumi. The parity Hamiltonian cycle problem. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 3, p. 606-626., Registrované v: WOS
- ADCA172 KOCHOL, Martin. Snarks without small cycles. In Journal of Combinatorial Theory, Series B, 1996, vol. 67, p. 34-47. ISSN 0095-8956.
Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
 2. [1.1] GOEDGEBEUR, Jan - ZAMFIRESCU, Carol T. On hypohamiltonian snarks and a theorem of Fiorini. In ARS MATHEMATICA CONTEMPORANEA. ISSN 1855-3966, 2018, vol. 14, no. 2, pp. 227-249., Registrované v: WOS
- ADCA173 KOCHOL, Martin. A cyclically 6-edge-connected snark of order 118. In Discrete Mathematics, 1996, vol. 161, p. 297-300. ISSN 0012-365X.
Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, pp., Registrované v: WOS

2. [1.1] *GOEDGEBEUR, Jan - ZAMFIRESCU, Carol T. On hypohamiltonian snarks and a theorem of Fiorini. In ARS MATHEMATICA CONTEMPORANEA. ISSN 1855-3966, 2018, vol. 14, no. 2, pp. 227-249., Registrované v: WOS*
- ADCA174 KÖNING, R. - KAROVIČ, Karol - WIMMER, Gejza - WITKOVSKÝ, Viktor. Estimating the standard uncertainty contribution of the straight-line fit algorithm used to determine the position and the width of a graduation line. In *Metrologia*, 2012, vol. 49, no. 3, p. 169-179. (2011: 1.750 - IF, 1.061 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0026-1394.
Citácie:
1. [1.2] *COSTA, P. B. - BARROS, W. S. - BALDNER, F. O. Uncertainty evaluation on aperture area measurement for radiometric traceability. In Journal of Physics: Conference Series. ISSN 17426588, 2018, vol. 1065, no. 8, art. no. 082015., Registrované v: SCOPUS*
- ADCA175 KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. The statistical uncertainty of the Heydemann correction: A practical limit of optical quadrature homodyne interferometry. In *Measurement Science and Technology*, 2015, vol. 26, no. 8, p. 084004. (2014: 1.433 - IF, Q2 - JCR, 0.657 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0957-0233.
Citácie:
1. [1.1] *HORI, Yasuaki - GONDA, Satoshi - BITOU, Youichi - WATANABE, Akihiro - NAKAMURA, Koutaro. Periodic error evaluation system for linear encoders using a homodyne laser interferometer with 10 picometer uncertainty. In PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY. ISSN 0141-6359, 2018, vol. 51, p. 388-392., Registrované v: WOS*
- ADCA176 KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Ellipse fitting by nonlinear constraints to demodulate quadrature homodyne interferometer signals and to determine the statistical uncertainty of the interferometric phase. In *Measurement Science and Technology*, 2014, vol. 25, no. 11, p. 115001. (2013: 1.352 - IF, 0.555 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0957-0233.
Citácie:
1. [1.1] *SUN, Haolin - LIANG, Zhiguo - YANG, Jun - ZHANG, Dazhi - LI, Huafeng. Both the phase modulation and frequency shift evaluation on laser vibrometer. In 13TH INTERNATIONAL CONFERENCE ON VIBRATION MEASUREMENTS BY LASER AND NONCONTACT TECHNIQUES, 2018. ISSN 1742-6588, 2018, vol. 1149., Registrované v: WOS*
2. [1.1] *WATCHI, Jennifer - COOPER, Sam - DING, Binlei - MOW-LOWRY, Conor M. - COLLETTE, Christophe. Contributed Review: A review of compact interferometers. In REVIEW OF SCIENTIFIC INSTRUMENTS. ISSN 0034-6748, 2018, vol. 89, no. 12., Registrované v: WOS*
3. [1.1] *YAN, Liping - CHEN, Zhouqiang - CHEN, Benyong - XIE, Jiandong - ZHANG, Shihua - LOU, Yingtian - ZHANG, Enzheng. Precision PGC demodulation for homodyne interferometer modulated with a combined sinusoidal and triangular signal. In OPTICS EXPRESS. ISSN 1094-4087, 2018, vol. 26, no. 4, p. 4818-4831., Registrované v: WOS*
- ADCA177 KORBAŠ, Július. The characteristic rank and cup-length in oriented Grassmann manifolds. In *Osaka Journal of Mathematics*, 2015, vol. 52, no. 4, p. 1163-1172. (2014: 0.402 - IF, Q4 - JCR, 0.673 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0030-6126.

Citácie:

1. [1.1] RUSIN, Tomas. BOUNDS FOR THE CHARACTERISTIC RANK AND CUP-LENGTH OF ORIENTED GRASSMANN MANIFOLDS. In ARCHIVUM MATHEMATICUM. ISSN 1212-5059, 2018, vol. 54, no. 5, p. 313-329.,
Registrované v: WOS

ADCA178 KOREC, Ivan. Small universal register machines. In Theoretical Computer Science, 1996, vol. 168, no. 2, p. 267-301. ISSN 0304-3975.

Citácie:

1. [1.1] ALHAZOV, Artiom - VERLAN, Sergey - FREUND, Rudolf. Small Universal Reversible Counter Machines. In REVERSIBILITY AND UNIVERSALITY: ESSAYS PRESENTED TO KENICHI MORITA ON THE OCCASION OF HIS 70TH BIRTHDAY. ISSN 2194-7287, 2018, vol. 30, p. 433-446., Registrované v: WOS

2. [1.1] CIENCIALA, Ludk - CIENCIALOVA, Lucie. Some new results of P colonies with bounded parameters. In NATURAL COMPUTING. ISSN 1567-7818, 2018, vol. 17, no. 2, p. 321-332., Registrované v: WOS

3. [1.1] PAN, Tong - SHI, Xiaolong - ZHANG, Zheng - XU, Fei. A small universal spiking neural P system with communication on request. In NEUROCOMPUTING. ISSN 0925-2312, 2018, vol. 275, p. 1622-1628.,
Registrované v: WOS

4. [1.1] SONG, Tao - RODRIGUEZ-PAION, Alfonso - ZHENG, Pan - ZENG, Xiangxiang. Spiking Neural P Systems With Colored Spikes. In IEEE TRANSACTIONS ON COGNITIVE AND DEVELOPMENTAL SYSTEMS. ISSN 2379-8920, 2018, vol. 10, no. 4, p. 1106-1115., Registrované v: WOS

5. [1.1] SONG, Xiaoxiao - WANG, Jun - PENG, Hong - NING, Guimin - SUN, Zhang - WANG, Tao - YANG, Fan. Spiking neural P systems with multiple channels and anti-spikes. In BIOSYSTEMS. ISSN 0303-2647, 2018, vol. 169, p. 13-19., Registrované v: WOS

6. [1.1] WANG, Xun - ZHENG, Pan - MA, Tongmao - SONG, Tao. Small Universal Bacteria and Plasmid Computing Systems. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 6, art. no. 1307., Registrované v: WOS

7. [1.1] WU, Tingfang - BILBIE, Florin-Daniel - PAUN, Andrei - PAN, Linqiang - NERI, Ferrante. Simplified and Yet Turing Universal Spiking Neural P Systems with Communication on Request. In INTERNATIONAL JOURNAL OF NEURAL SYSTEMS. ISSN 0129-0657, 2018, vol. 28, no. 8, art. no. 1850013., Registrované v: WOS

8. [1.1] WU, Tingfang - PAUN, Andrei - ZHANG, Zhiqiang - PAN, Linqiang. Spiking Neural P Systems With Polarizations. In IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS. ISSN 2162-237X, 2018, vol. 29, no. 8, p. 3349-3360., Registrované v: WOS

9. [1.1] ZAITSEV, Dmitry A. Simulating Cellular Automata by Infinite Petri Nets. In JOURNAL OF CELLULAR AUTOMATA. ISSN 1557-5969, 2018, vol. 13, no. 1-2, p. 121-144., Registrované v: WOS

10. [1.1] ZHANG, Zhiqiang - SU, Yansen - PAN, Linqiang. The computational power of enzymatic numerical P systems working in the sequential mode. In THEORETICAL COMPUTER SCIENCE. ISSN 0304-3975, 2018, vol. 724, p. 3-12., Registrované v: WOS

11. [1.2] CABARLE, Francis George C. - DE LA CRUZ, Ren Tristan A. - ADORNA, Henry N. - DIMAANO, Ma Daiela - PEÑA, Faith Therese - ZENG, Xiangxiang. Small spiking neural P systems with structural plasticity. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 11270 LNCS, p. 45-56., Registrované v: SCOPUS
 12. [1.2] JIANG, Suxia - WANG, Yanfeng - XU, Jinbang - XU, Fei. Cell-Like P systems with symport/antiport rules and promoters. In *Communications in Computer and Information Science*. ISSN 18650929, 2017, vol. 791, p. 343-358., Registrované v: SCOPUS
 13. [1.2] LI, Li - JIANG, Keqin. Computational universality of homogeneous spiking neural P systems working in sequential mode induced by minimum spike number. In *Zhongshan Daxue Xuebao/Acta Scientiarum Natralium Universitatis Sunyatseni*. ISSN 05296579, 2017, vol. 56, no. 5, p. 34-40., Registrované v: SCOPUS
 14. [1.2] LIU, Xiyu - XUE, J. I.E. A morse membrane Boltzmann machine model with applications in cluster analysis. In *WSEAS Transactions on Systems and Control*. ISSN 19918763, 2017, vol. 12, p. 476-489., Registrované v: SCOPUS
 15. [1.2] PĂUN, Andrei - BÎLBÎE, Florin Daniel. A look at the descriptive complexity of SNQ P systems. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 11270 LNCS, p. 228-236., Registrované v: SCOPUS
 16. [1.2] YU, Yang - WU, Tingfang - HE, Juanjuan. Smaller universal spiking neural P systems with cooperating rules. In *Xitong Gongcheng Lilun yu Shijian/System Engineering Theory and Practice*. ISSN 10006788, 2017, vol. 37, no. 9, p. 2465-2473., Registrované v: SCOPUS
- ADCA179 KRAJČI, S. - LENCSES, R. - VOJTÁŠ, Peter. A comparison of fuzzy and annotated logic programming. In *Fuzzy Sets and Systems*, 2004, vol. 144, no. 1, p. 173-192. ISSN 0165-0114.
- Citácie:
1. [1.1] EUGENIA CORNEJO, M. - LOBO, David - MEDINA, Jesus. Syntax and semantics of multi-adjoint normal logic programming. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 345, no., pp. 41-62., Registrované v: WOS
- ADCA180 KRÁL, A. - MAJERNÍK, Vladimír. On lateral inhibition in the auditory system. In *General Physiology and Biophysics*, 1996, vol. 15, no. 2, p. 109-127. (1995: 0.420 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0231-5882.
- Citácie:
1. [1.1] OKAMOTO, Hidehiko. Manipulation of Auditory Inputs as Rehabilitation Therapy for Maladaptive Auditory Cortical Reorganization. In *NEURAL PLASTICITY*. ISSN 2090-5904, 2018, art. no. 2546250., Registrované v: WOS
 2. [1.1] SEKIYA, Kenichi - TAKAHASHI, Mariko - MURAKAMI, Shingo - KAKIGI, Ryusuke - OKAMOTO, Hidehiko. Broadened population-level frequency tuning in the auditory cortex of tinnitus patients. In *JOURNAL OF NEUROPHYSIOLOGY*. ISSN 0022-3077, 2017, vol. 117, no. 3, p. 1379-1384., Registrované v: WOS
- ADCA181 KUČHTA, Milan. Shadowing property of continuous-maps with zero topological-entropy. In *Proceedings of American Mathematical Society*, 1993, vol. 119, no. 2, p. 641-648. ISSN 0002-9939.

Citácie:

1. [1.1] LI, Jian - OPROCHA, Piotr. *Properties of invariant measures in dynamical systems with the shadowing property*. In *ERGODIC THEORY AND DYNAMICAL SYSTEMS*. ISSN 0143-3857, 2018, vol. 38, no., pp. 2257-2294., Registrované v: WOS

- ADCA182 LIANG, Chengbin - WANG, JinRong - FEČKAN, Michal. A study on ILC for linear discrete systems with single delay. In *Journal of Difference Equations and Applications*, 2018, vol. 24, no. 3, p. 358-374. (2017: 0.625 - IF, Q4 - JCR, 0.450 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1023-6198.

Citácie:

1. [1.1] DAI, Xisheng - TU, Xuemin - ZHAO, Yong - TAN, Guangxing - ZHOU, Xingyu. *Iterative learning control for MIMO parabolic partial difference systems with time delay*. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 34., Registrované v: WOS

2. [1.1] GU, Panpan - TIAN, Senping. *Iterative learning control for discrete-time switched singular systems*. In *JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS*. ISSN 1023-6198, 2018, vol. 24, no. 9, p. 1414-1428., Registrované v: WOS

3. [1.1] LUO, Zijian - XIONG, Wenjun - YU, Xinghuo. *Consensus Tracking in Multi-Node Systems Using Iterative Learning Control Based on Delay Exponential Matrix*. In *UNMANNED SYSTEMS*. ISSN 2301-3850, 2018, vol. 6, no. 3, p. 209-219., Registrované v: WOS

- ADCA183 MACKO, Tibor - WEGNER, Christian. On the classification of fake lens spaces. In *Forum Mathematicum*, 2010, vol. 23, no. 5, p. 1053-1091. (2009: 0.702 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0933-7741.

Citácie:

1. [1.1] ERDAL, Mehmet Akif. *On smooth manifolds with the homotopy type of a homology sphere*. In *TOPOLOGY AND ITS APPLICATIONS*. ISSN 0166-8641, 2018, vol. 234, p. 82-91., Registrované v: WOS

- ADCA184 MAES, Koen C. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Cancellativity properties for t-norms and t-subnorms. In *Information Sciences*, 2009, vol. 179, no. 9, p. 1221-1233. (2008: 3.095 - IF). ISSN 0020-0255.

Citácie:

1. [1.1] ASICI, Emel. *On the properties of the F-partial order and the equivalence of nullnorms*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 346, p. 72-84., Registrované v: WOS

2. [1.1] ASICI, Emel. *Some Remarks on an Order Induced by Uninorms*. In *ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1*. ISSN 2194-5357, 2018, vol. 641, p. 69-77., Registrované v: WOS

- ADCA185 MAJERNÍK, Vladimír - MAJERNÍKOVÁ, Eva. Standard and entropic uncertainty relations of the finite well. In *Journal of Physics A: Mathematical and Theoretical*, 2002, vol. 35, no. 27, p. 5751-5761. ISSN 1751-8113.

Citácie:

1. [1.1] SOLAIMANI, M. - SUN, Guo-Hua - DONG, Shi-Hai. *Shannon information entropies for rectangular multiple quantum well systems with constant total lengths. In CHINESE PHYSICS B. ISSN 1674-1056, 2018, vol. 27, no. 4, art. no. 040301., Registrované v: WOS*

- ADCA186 MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy and logical mutual information of experiments in the intuitionistic fuzzy case. In *Entropy*, 2017, vol. 19, no. 8, art. no. 429, p. 1-19. (2016: 1.821 - IF, Q2 - JCR, 0.560 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1099-4300. Dostupné na internete: <<http://www.mdpi.com/1099-4300/19/8/429>>.

Citácie:

1. [1.1] ABU QAMAR, Majdoleen - HASSAN, Nasruddin. *Q-Neutrosophic Soft Relation and Its Application in Decision Making. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 3, art. no. 172., Registrované v: WOS*

2. [1.2] AL-QURAN, Ashraf - HASSAN, Nasruddin. *The complex neutrosophic soft expert relation and its multiple attribute decision-making method. In Entropy, 2018-02-01, 20, no. 2, art. no. 101., Registrované v: SCOPUS*

- ADCA187 MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Entropy of fuzzy partitions and entropy of fuzzy dynamical systems. In *Entropy*, 2016, vol. 18, no. 1, p. 1-10. (2015: 1.743 - IF, Q2 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1099-4300. Dostupné na internete: <<http://www.mdpi.com/1099-4300/18/1/19>>.

Citácie:

1. [1.1] DI MARTINO, Ferdinando - SESSA, Salvatore. *Energy and Entropy Measures of Fuzzy Relations for Data Analysis. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 6, art. no. 424., Registrované v: WOS*

2. [1.1] RAHIMI, Mohamadtaghi - KUMAR, Pranesh - YARI, Gholamhossein. *Credibility Measure for Intuitionistic Fuzzy Variables. In MATHEMATICS. ISSN 2227-7390, 2018, vol. 6, no. 4, art. no. 50., Registrované v: WOS*

- ADCA188 MARKECHOVÁ, Dagmar - RIEČAN, Beloslav. Logical entropy of fuzzy dynamical systems. In *Entropy*, 2016, vol. 18, no. 4, p.1-16. (2015: 1.743 - IF, Q2 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1099-4300. Dostupné na internete: <<http://www.mdpi.com/1099-4300/18/4/157>>.

Citácie:

1. [1.1] DI MARTINO, Ferdinando - SESSA, Salvatore. *Energy and Entropy Measures of Fuzzy Relations for Data Analysis. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 6, pp., Registrované v: WOS*

2. [1.1] RAHIMI, Mohamadtaghi - KUMAR, Pranesh - YARI, Gholamhossein. *Credibility Measure for Intuitionistic Fuzzy Variables. In MATHEMATICS. ISSN 2227-7390, 2018, vol. 6, no. 4, pp., Registrované v: WOS*

- ADCA189 MEDINA, Jesús - OJEDA-ACIEGO, M. - PÓCS, Jozef - RAMÍREZ-POUSSA, E. On the Dedekind-MacNeille completion and formal concept analysis based on multilattices. In *Fuzzy Sets and Systems*, 2016, vol. 303, p. 1-20. (2015: 2.098 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0165011416000439>>.

Citácie:

1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRIDLÓ, Ondrej. *On stability of fuzzy formal concepts over randomized one-sided formal context. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 333, p. 36-53., Registrované v: WOS*

2. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. *On fuzzy generalizations of concept lattices. In Studies in Computational Intelligence. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS*
- ADCA190 MEDNYKH, A. - NEDELA, Roman. Enumeration of unrooted maps of a given genus. In *Journal of Combinatorial Theory, Series B*, 2006, vol. 96, p. 706-729. (2006 - Current Contents). ISSN 0095-8956.
- Citácie:
1. [1.1] BIBAK, Khodakhast - KAPRON, Bruce M. - SRINIVASAN, Venkatesh - TOTH, Laszlo. *On an Almost-Universal Hash Function Family with Applications to Authentication and Secrecy Codes. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2018, vol. 29, no. 3, p. 357-375., Registrované v: WOS*
2. [1.1] BIBAK, Khodakhast - MILENKOVIC, Olgica. *Weight Enumerators of Some Classes of Deletion Correcting Codes. In 2018 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY (ISIT), 2018, p. 431-435., Registrované v: WOS*
3. [1.1] ZOGRAF, P. - KAZARIAN, M. *RATIONALITY IN MAP AND HYPERMAP ENUMERATION BY GENUS. In ST PETERSBURG MATHEMATICAL JOURNAL. ISSN 1061-0022, 2018, vol. 29, no. 3, p. 439-445., Registrované v: WOS*
4. [1.2] KRASKO, E. S. - OMELCHENKO, A. V. *Enumeration of Regular Maps on Surfaces of a Given Genus. In Journal of Mathematical Sciences (United States). ISSN 10723374, 2018-07-01, 232, 1, p. 44-60., Registrované v: SCOPUS*
- ADCA191 MESIAROVÁ-ZEMÁNKOVÁ, Andrea - HYČKO, Marek. Multi-and multi-polar capacities. In *Fuzzy Sets and Systems*, 2016, vol. 291, p. 18-32. (2015: 2.098 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0165011414005491>>.
- Citácie:
1. [1.1] STRBOJA, Mirjana - PAP, Endre - MIHAILOVIC, Biljana. *Discrete bipolar pseudo-integrals. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 468, p. 72-88., Registrované v: WOS*
- ADCA192 MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Decomposable and k-additive multi-capacities and multi-polar capacities. In *Fuzzy Sets and Systems*, 2016, vol. 287, p. 22-36. (2015: 2.098 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0165011415000238>>.
- Citácie:
1. [1.1] SINGH, Prem Kumar. *m-polar fuzzy graph representation of concept lattice. In ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. ISSN 0952-1976, 2018, vol. 67, p. 52-62., Registrované v: WOS*
2. [1.1] STRBOJA, Mirjana - PAP, Endre - MIHAILOVIC, Biljana. *Discrete bipolar pseudo-integrals. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 468, p. 72-88., Registrované v: WOS*
3. [1.2] LIN, Shuai - JIA, Limin - WANG, Yanhui - ZHANG, Dongxue. *Identifying critical components of complex electromechanical system and its application. In Xitong Gongcheng Lilun yu Shijian/System Engineering Theory and Practice. ISSN 10006788, 2017, vol. 37, no. 7, p. 1892-1902., Registrované v: SCOPUS*

- ADCA193 MESiarová-ZEMÁNKOVÁ, Andrea - HYČKO, Marek. Aggregation on Boolean multi-polar space: Knowledge-based vs. category-based ordering. In *Information Sciences*, 2015, vol. 309, p. 163-179. (2014: 4.038 - IF, Q1 - JCR, 2.226 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255.
Citácie:
1. [1.1] SINGH, Prem Kumar. *m-polar fuzzy graph representation of concept lattice*. In *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*. ISSN 0952-1976, 2018, vol. 67, p. 52-62., Registrované v: WOS
- ADCA194 MESiarová-ZEMÁNKOVÁ, Andrea. Ordinal sum construction for uninorms and generalized uninorms. In *International Journal of Approximate Reasoning*, 2016, vol. 76, p. 1-17. (2015: 2.696 - IF, Q1 - JCR, 1.923 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0888-613X. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0888613X16300482>>.
Citácie:
1. [1.1] JESUS CAMPION, Maria - CATALAN, Raquel G. - INDURAIN, Esteban - LIZASOAIN, Inmaculada - RAVENTOS-PUJOL, Armajac - VALERO, Oscar. *Geometrical aggregation of finite fuzzy sets*. In *INTERNATIONAL JOURNAL OF APPROXIMATE REASONING*. ISSN 0888-613X, 2018, vol. 103, p. 248-266., Registrované v: WOS
2. [1.1] ZONG, Wenwen - SU, Yong - LIU, Hua-Wen - DE BAETS, Bernard. *On the Construction of Associative, Commutative and Increasing Operations by Paving*. In *AGGREGATION FUNCTIONS IN THEORY AND IN PRACTICE*. ISSN 2194-5357, 2018, vol. 581, p. 229-240., Registrované v: WOS
- ADCA195 MESiarová-ZEMÁNKOVÁ, Andrea. H-transformation of t-norms. In *Information Sciences*, 2006, vol. 176, no. 11, p. 1531-1545. ISSN 0020-0255.
Citácie:
1. [1.1] LI, Gang - LI, Zhenbo - REN, Yongqiang - YANG, Qingbo - LIU, Hua-wen. *On a Class of Uninorms of Which The Underlying Operators are Involution and Left-continuous*. In *2017 12TH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS AND KNOWLEDGE ENGINEERING (IEEE ISKE), 2017.*, Registrované v: WOS
- ADCA196 MESiarová-ZEMÁNKOVÁ, Andrea. Characterization of uninorms with continuous underlying t-norm and t-conorm by means of the ordinal sum construction. In *International Journal of Approximate Reasoning*, 2017, vol. 83, p. 176-192. (2016: 2.845 - IF, Q2 - JCR, 1.275 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0888-613X. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0888613X17300579>>.
Citácie:
1. [1.1] LI, Gang - LIU, Hua-Wen. *On properties of uninorms locally internal on the boundary*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 332, no., pp. 116-128., Registrované v: WOS
2. [1.1] LI, Gang. *ON A SPECIAL CLASS OF LEFT-CONTINUOUS UNINORMS*. In *KYBERNETIKA*. ISSN 0023-5954, 2018, vol. 54, no. 3, p. 427-442., Registrované v: WOS
3. [1.2] FERNANDEZ-PERALTA, Raquel - MASSANET, Sebastia. *On the characterization of a family of generalized Yager's implications*. In *Communications in Computer and Information Science*. ISSN 18650929, 2018, vol. 853, p. 636-648., Registrované v: SCOPUS

- ADCA197 MESiarOVÁ-ZEMÁNKOVÁ, Andrea. Ordinal sums of representable uninorms. In *Fuzzy Sets and Systems*, 2017, vol. 308, p. 42-53. (2016: 2.718 - IF, Q1 - JCR, 1.408 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0165-0114. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0165011416302354?via%3Dihub>>.
- Citácie:
- [1.1] ZONG, Wenwen - SU, Yong - LIU, Hua-Wen - DE BAETS, Bernard. *On the Construction of Associative, Commutative and Increasing Operations by Paving*. In *AGGREGATION FUNCTIONS IN THEORY AND IN PRACTICE*. ISSN 2194-5357, 2018, vol. 581, p. 229-240., Registrované v: WOS
- ADCA198 MESiarOVÁ-ZEMÁNKOVÁ, Andrea. Continuous triangular subnorms. In *Fuzzy Sets and Systems*, 2004, vol. 142, no. 1, p. 75-83. ISSN 0165-0114.
- Citácie:
- [1.1] LI, Zhaoyan - ZHAO, Chenfang - PEI, Zheng. *Operations on Hesitant Linguistic terms sets Induced By Archimedean Triangular Norms And Conorms*. In *INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS*. ISSN 1875-6891, 2018, vol. 11, no. 1, p. 514-524., Registrované v: WOS
 - [1.1] LIU, Hua-Wen - QIN, Feng. *An Extension of Semiuninorms: Weak-Neutral Semiuninorms*. In *INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS*. ISSN 0218-4885, 2017, vol. 25, no. 2, p. 301-316., Registrované v: WOS
 - [1.1] PETRIK, Milan - SARKOCI, Peter. *Continuous weakly cancellative triangular subnorms: I. Their web-geometric properties*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 332, p. 93-110., Registrované v: WOS
- ADCA199 MESiarOVÁ-ZEMÁNKOVÁ, Andrea. k - $l(p)$ -Lipschitz t -norms. In *International Journal of Approximate Reasoning*, 2007, vol. 46, no. 3, p. 596-604. (2006: 1.262 - IF). ISSN 0888-613X.
- Citácie:
- [1.1] ARIAS-GARCIA, J. J. - MESIAR, R. - KLEMENT, E. P. - SAMINGER-PLATZ, S. - DE BAETS, B. *Extremal Lipschitz continuous aggregation functions with a given diagonal section*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 346, p. 147-167., Registrované v: WOS
 - [1.1] LIDMAN, Jacob - SVENNINGSSON, Josef. *Bridging Static and Dynamic Program Analysis using Fuzzy Logic*. In *ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE*. ISSN 2075-2180, 2017, no. 250, p. 111-126., Registrované v: WOS
- ADCA200 MESiarOVÁ-ZEMÁNKOVÁ, Andrea. Sensitivity analysis of fuzzy rule-based classification systems by means of the Lipschitz condition. In *Soft Computing*, 2016, vol. 20, no. 1, p. 103-113. (2015: 1.630 - IF, Q2 - JCR, 0.724 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <<http://link.springer.com/article/10.1007/s00500-015-1744-z>>.
- Citácie:
- [1.2] KOIT, Mare. *Modelling attitudes of dialogue participants reasoning and communicative space*. In *ICAART 2018 Proceedings of the 10th International Conference on Agents and Artificial Intelligence*, 2018, vol. 2, p. 581-588., Registrované v: SCOPUS

- ADCA201 MESiarová-ZEMÁNKOVÁ, Andrea. Multi-polar t-conorms and uninorms. In Information Sciences, 2015, vol. 301, p. 227-240. (2014: 4.038 - IF, Q1 - JCR, 2.226 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255.

Citácie:

1. [1.1] CAYLI, Gul Deniz - DRYGAS, Pawel. Some properties of idempotent uninorms on a special class of bounded lattices. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 422, p. 352-363., Registrované v: WOS
2. [1.1] CAYLI, Gul Deniz - KARACAL, Funda. Idempotent nullnorms on bounded lattices. In INFORMATION SCIENCES. ISSN 0020-0255, 2018, vol. 425, p. 154-163., Registrované v: WOS
3. [1.1] CAYLI, Gul Deniz - KARACAL, Funda. Some Remarks on Idempotent Nullnorms on Bounded Lattices. In AGGREGATION FUNCTIONS IN THEORY AND IN PRACTICE. ISSN 2194-5357, 2018, vol. 581, p. 31-39., Registrované v: WOS
4. [1.1] CAYLI, Gul Deniz. On a new class of t-norms and t-conorms on bounded lattices. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 332, p. 129-143., Registrované v: WOS
5. [1.1] CAYLI, Gull Deniz. Characterizing Ordinal Sum for t-norms and t-conorms on Bounded Lattices. In ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1. ISSN 2194-5357, 2018, vol. 641, p. 443-454., Registrované v: WOS
6. [1.1] DRYGAS, Pawel. Some Remarks About Idempotent Uninorms on Complete Lattice. In ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1. ISSN 2194-5357, 2018, vol. 641, p. 648-657., Registrované v: WOS
7. [1.1] KHAMENEH, Azadeh Zahedi - KILICMAN, Adem. m-Polar Fuzzy Soft Weighted Aggregation Operators and Their Applications in Group Decision-Making. In SYMMETRY-BASEL. ISSN 2073-8994, 2018, vol. 10, no. 11, art. no. 636., Registrované v: WOS
8. [1.1] LI, Gang - LIU, Hua-Wen. On properties of uninorms locally internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 332, p. 116-128., Registrované v: WOS
9. [1.1] LI, Gang. ON A SPECIAL CLASS OF LEFT-CONTINUOUS UNINORMS. In KYBERNETIKA. ISSN 0023-5954, 2018, vol. 54, no. 3, p. 427-442., Registrované v: WOS
10. [1.1] SINGH, Prem Kumar. m-polar fuzzy graph representation of concept lattice. In ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. ISSN 0952-1976, 2018, vol. 67, p. 52-62., Registrované v: WOS
11. [1.2] ÇAYLI, Gül Deniz. Uninorms that are neither conjunctive nor disjunctive on bounded lattices. In Communications in Computer and Information Science. ISSN 18650929, 2018, vol. 853, p. 310-318., Registrované v: SCOPUS

- ADCA202 MESiarová-ZEMÁNKOVÁ, Andrea - AHMAD, K. Extended multi-polarity and multi-polar-valued fuzzy sets. In Fuzzy Sets and Systems, 2014, vol. 234, p. 61-78. (2013: 1.880 - IF, 1.439 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0165-0114.

Citácie:

1. [1.1] KHAMENEH, Azadeh Zahedi - KILICMAN, Adem. m-Polar Fuzzy Soft Weighted Aggregation Operators and Their Applications in Group Decision-Making. In SYMMETRY-BASEL. ISSN 2073-8994, 2018, vol. 10, no. 11, art. no. 636., Registrované v: WOS

2. [1.1] MARDANI, Abbas - NILASHI, Mehrbakhsh - ZAVADSKAS, Edmundas Kazimieras - AWANG, Siti Rahmah - ZARE, Habib - JAMAL, Noriza Mohd. *Decision Making Methods Based on Fuzzy Aggregation Operators: Three Decades Review from 1986 to 2017*. In *INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING*. ISSN 0219-6220, 2018, vol. 17, no. 2, p. 391-466., Registrované v: WOS
 3. [1.1] NGAN, Shing-Chung. *Revisiting fuzzy set operations: A rational approach for designing set operators for type-2 fuzzy sets and type-2 like fuzzy sets*. In *EXPERT SYSTEMS WITH APPLICATIONS*. ISSN 0957-4174, 2018, vol. 107, p. 255-284., Registrované v: WOS
 4. [1.1] SINGH, Prem Kumar. *m-polar fuzzy graph representation of concept lattice*. In *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*. ISSN 0952-1976, 2018, vol. 67, p. 52-62., Registrované v: WOS
- ADCA203 MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Continuous additive generators of continuous, conditionally cancellative triangular subnorms. In *Information Sciences*, 2016, vol. 339, p. 53-63. (2015: 3.364 - IF, Q1 - JCR, 2.069 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0020-0255. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0020025515009056>>.
- Citácie:
1. [1.1] LI, Zhaoyan - ZHAO, Chenfang - PEI, Zheng. *Operations on Hesitant Linguistic terms sets Induced By Archimedean Triangular Norms And Conorms*. In *INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS*. ISSN 1875-6891, 2018, vol. 11, no. 1, p. 514-524., Registrované v: WOS
 2. [1.1] PETRIK, Milan - SARKOCI, Peter. *Continuous weakly cancellative triangular subnorms: I. Their web-geometric properties*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 332, p. 93-110., Registrované v: WOS
 3. [1.1] REN, Fangling - QIAO, Ying - KONG, Mingming - PEI, Zheng. *An alternative core information of hesitant fuzzy linguistic term sets for linguistic decision making*. In *DATA SCIENCE AND KNOWLEDGE ENGINEERING FOR SENSING DECISION SUPPORT*, 2018, vol. 11, no., p. 243-251., Registrované v: WOS
- ADCA204 MESIAROVÁ-ZEMÁNKOVÁ, Andrea. A note on decomposition of idempotent uninorms into an ordinal sum of singleton semigroups. In *Fuzzy Sets and Systems*, 2016, vol. 299, p. 140-145. (2015: 2.098 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0165-0114. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0165011416301002>>.
- Citácie:
1. [1.1] COUCEIRO, Miguel - DEVILLET, Jimmy - MARICHAL, Jean-Luc. *Characterizations of idempotent discrete uninorms*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 334, p. 60-72., Registrované v: WOS
 2. [1.1] PATERNAIN, Daniel - CAMPION, Maria Jesus - MESIAR, Radko - PERFILIEVA, Irina - BUSTINCE, Humberto. *Internal Fusion Functions*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 2, p. 487-503., Registrované v: WOS
 3. [1.1] ZONG, Wenwen - SU, Yong - LIU, Hua-Wen - DE BAETS, Bernard. *On the Construction of Associative, Commutative and Increasing Operations by Paving*. In *AGGREGATION FUNCTIONS IN THEORY AND IN PRACTICE*. ISSN 2194-5357, 2018, vol. 581, p. 229-240., Registrované v: WOS

- ADCA205 MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Characterization of uninorms with continuous underlying T-norm and T-conorm by their set of discontinuity points. In IEEE Transactions on Fuzzy Systems, 2018, vol. 26, no. 2, p. 705-714. (2017: 8.415 - IF, Q1 - JCR, 4.024 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1063-6706.
- Citácie:
1. [1.1] LI, Gang - LIU, Hua-Wen. A note on "Distributivity and conditional distributivity of a uninorm with continuous underlying operators over a continuous t-conorms". In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 334, p. 126-131., Registrované v: WOS
 2. [1.1] LI, Gang - LIU, Hua-Wen. On properties of uninorms locally internal on the boundary. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 332, no., pp. 116-128., Registrované v: WOS
 3. [1.1] LI, Gang. ON A SPECIAL CLASS OF LEFT-CONTINUOUS UNINORMS. In KYBERNETIKA. ISSN 0023-5954, 2018, vol. 54, no. 3, p. 427-442., Registrované v: WOS
 4. [1.2] LI, Gang - LI, Zhenbo - REN, Yongqiang - YANG, Qingbo - LIU, Hua Wen. On a class of uninorms of which the underlying operators are involutive and left-continuous. In Proceedings of the 2017 12th International Conference on Intelligent Systems and Knowledge Engineering, ISKE 2017, 2018, p. 1-4., Registrované v: SCOPUS
 5. [1.2] LI, Gang - REN, Yongqiang - YANG, Qingbo. On a class of conjunctive left-continuous uninorms. In ICNC-FSKD 2017 13th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery, 2018, p. 1148-1151., Registrované v: SCOPUS
- ADCA206 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, K. Discrete Choquet integral and some of its symmetric extensions. In Fuzzy Sets and Systems, 2011, vol. 184, no. 1, p. 148-155. (2010: 1.875 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0165-0114.
- Citácie:
1. [1.1] AGGARWAL, Manish. Attitudinal Choquet integrals and applications in decision making. In INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS. ISSN 0884-8173, 2018, vol. 33, no. 4, p. 879-898., Registrované v: WOS
- ADCA207 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. The Ordered Modular Averages. In IEEE Transactions on Fuzzy Systems, 2011, vol. 19, no. 1, p. 42-50. (2010: 2.683 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1063-6706.
- Citácie:
1. [1.1] WANG, Jian - SHEN, LingLing - JIN, LeSheng - QIAN, Gang. Age Sequence Recursive Models for Long Time Evaluation Problems. In INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS. ISSN 0218-4885, 2018, vol. 26, no. 2, p. 299-325., Registrované v: WOS
- ADCA208 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. Fuzzy integrals and linearity. In International Journal of Approximate Reasoning, 2008, vol. 47, no. 3, p. 352-358. (2008 - Current Contents). ISSN 0888-613X.

Citácie:

1. [1.2] DORIA, Serena. *Integral representations of a coherent upper conditional prevision by the symmetric choquet integral and the asymmetric choquet integral with respect to hausdorff outer measures*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 11142 LNAI, p. 108-123.,

Registrované v: SCOPUS

2. [1.2] NAGARAJAN, Rajganesh - THIRUNAVUKARASU, Ramkumar. *A fuzzy-based decision-making broker for effective identification and selection of cloud infrastructure services*. In *Soft Computing*. ISSN 14327643, 2018-01-01, pp., Registrované v: SCOPUS

ADCA209 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. *Residual implications and left-continuous t-norms which are ordinal sums of semigroups*. In *Fuzzy Sets and Systems*, 2004, vol. 143, no. 1, p. 47-57. ISSN 0165-0114.

Citácie:

1. [1.1] DRYGAS, Pawel - KROL, Anna. *On some constructions of ordinal sums of fuzzy implications*. In *2017 JOINT 17TH WORLD CONGRESS OF INTERNATIONAL FUZZY SYSTEMS ASSOCIATION AND 9TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND INTELLIGENT SYSTEMS (IFSA-SCIS), 2017.*, Registrované v: WOS

2. [1.1] DRYGAS, Pawel - KROL, Anna. *Ordinal Sum of Fuzzy Implications Fulfilling Left Ordering Property*. In *ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 1*. ISSN 2194-5357, 2018, vol. 641, p. 658-669., Registrované v: WOS

3. [1.1] DRYGAS, Pawel - KROL, Anna. *Two Constructions of Ordinal Sums of Fuzzy Implications*. In *UNCERTAINTY AND IMPRECISION IN DECISION MAKING AND DECISION SUPPORT: CROSS-FERTILIZATION, NEW MODELS, AND APPLICATIONS*. ISSN 2194-5357, 2018, vol. 559, p. 102-111., Registrované v: WOS

4. [1.1] TI, Libo - ZHOU, Hongjun. *On (O, N)-coimplications derived from overlap functions and fuzzy negations*. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 34, no. 6, p. 3993-4007., Registrované v: WOS

5. [1.2] DUKIĆ, Nedžad - GUŠIĆ, Dženan - MURATOVIĆ-RIBIĆ, Amela - ALIHODŽIĆ, Adis - TABAK, Edin - DUKIĆ, Haris. *From fuzzy dependences to fuzzy formulas and vice versa, for kleene-dienes fuzzy implication operator*. In *WSEAS Transactions on Systems and Control*. ISSN 19918763, 2018, vol. 13, p. 285-297., Registrované v: SCOPUS

6. [1.2] ZHOU, Hongjun - LIU, Xiao. *Characterizations of $(U^{<\sup n</sup>}, N)$ -implications generated by 2-uninorms and fuzzy negations from the point of view of material implication*. In *Fuzzy Sets and Systems*. ISSN 01650114, 2018., Registrované v: SCOPUS

ADCA210 MESIAR, R. - MESIAROVÁ-ZEMÁNKOVÁ, Andrea. *Fuzzy integrals - what are they ?* In *International Journal of Intelligent Systems*, 2008, vol. 23, no. 2, p. 199-212. ISSN 0884-8173.

Citácie:

1. [1.1] CAMPION, Maria J. - CANDEAL, Juan C. - CATALAN, Raquel G. - GIARLOTTA, Alfio - GRECO, Salvatore - INDURAIN, Esteban - MONTERO, Javier. *An axiomatic approach to finite means*. In *INFORMATION SCIENCES*. ISSN 0020-0255, 2018, vol. 457, p. 12-28., Registrované v: WOS

2. [1.1] *YAGER, Ronald R. Using Fuzzy Measures to Construct Multi-criteria Decision Functions. In SOFT COMPUTING BASED OPTIMIZATION AND DECISION MODELS: TO COMMEMORATE THE 65TH BIRTHDAY OF PROFESSOR JOSE LUIS CURRO VERDEGAY. ISSN 1434-9922, 2018, vol. 360, p. 231-239., Registrované v: WOS*
- ADCA211 *MESIAR, Radko - MESIAROVÁ-ZEMÁNKOVÁ, Andrea - AHMAD, Khurshid. Level-dependent Sugeno integral. In IEEE Transactions on Fuzzy Systems, 2009, vol. 17, no. 1, p. 167-172. (2008: 3.624 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1063-6706.*
Citácie:
 1. [1.2] *RICO, Agnès. Discrete Sugeno integrals and their applications. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11142 LNAI, p. 18-32., Registrované v: SCOPUS*
- ADCA212 *NEGGERS, J. - DVUREČENSKIJ, Anatolij - HEE SIK KIM. On d-fuzzy functions in d-algebras. In Foundations of Physics, 2000, vol. 30, p. 1807-1816. ISSN 0015-9018.*
Citácie:
 1. [1.1] *JUN, Young Bae - LEE, Kyoung Ja - SONG, Seok Zun. Quasi-valuation maps based on positive implicative ideals in BCK-algebras. In ALGEBRA & DISCRETE MATHEMATICS. ISSN 1726-3255, 2018, vol. 26, no. 1, p. 65-75., Registrované v: WOS*
- ADCA213 *OKŠA, Gabriel - VAJTERŠIC, Marián. Efficient Pre-Processing in the Parallel Block-Jacobi SVD Algorithm. In Parallel Computing, 2006, vol. 32, no. 2, p. 166-176. ISSN 0167-8191.*
Citácie:
 1. [1.1] *BOUKARAM, Wajih Halim - TURKIYYAH, George - LTAIEF, Hatem - KEYES, David E. Batched QR and SVD algorithms on GPUs with applications in hierarchical matrix compression. In PARALLEL COMPUTING. ISSN 0167-8191, 2018, vol. 74, no., pp. 19-33., Registrované v: WOS*
 2. [1.1] *DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, pp. 808-865., Registrované v: WOS*
- ADCA214 *PALMOVSKÝ, Matúš. Kleene closure and state complexity. In RAIRO : Theoretical Informatics and Applications, 2016, vol. 50, no. 3, p. 251-261. (2015: 0.319 - IF, Q4 - JCR, 0.292 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0988-3754.*
Citácie:
 1. [1.2] *HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Operations on boolean and alternating finite automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018-01-01, 10846 LNCS, p. 181-193., Registrované v: SCOPUS*
- ADCA215 *PÁZMAN, Andrej. Probability distribution of the multivariate nonlinear least squares estimates. In Kybernetika, 1984, vol. 20, no. 3, p. 209-230. ISSN 0023-5954.*
Citácie:
 1. [1.1] *MAGIERA, Wladyslaw - LIBAL, Urszula - WIELGUS, Agnieszka. EFFICIENT MEASUREMENT OF HIGHER-ORDER STATISTICS OF STOCHASTIC PROCESSES. In KYBERNETIKA. ISSN 0023-5954, 2018, vol. 54, no. 5, pp. 865-887., Registrované v: WOS*

- ADCA216 PLÁVALA, Martin. All measurements in a probabilistic theory are compatible if and only if the state space is a simplex. In *Physical Review A*, 2016, vol. 94, no. 4, art. no. 042108. (2015: 2.765 - IF, Q1 - JCR, 1.451 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1050-2947. Dostupné na internete: <http://journals.aps.org/prapdf/10.1103/PhysRevA.94.042108>.
Citácie:
1. [1.1] CARMELI, Claudio - HEINOSAARI, Teiko - TOIGO, Alessandro. State discrimination with postmeasurement information and incompatibility of quantum measurements. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 98, no. 1, art. no. 012126., Registrované v: WOS
2. [1.1] FILIPPOV, Sergey N. - HEINOSAARI, Teiko - LEPPAJARVI, Leevi. Simulability of observables in general probabilistic theories. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 97, no. 6, art. no. 062102., Registrované v: WOS
3. [1.1] JENCOVA, Anna. Incompatible measurements in a class of general probabilistic theories. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 98, no. 1, art. no. 012133., Registrované v: WOS
- ADCA217 PLÁVALA, Martin. Conditions for the compatibility of channels in general probabilistic theory and their connection to steering and Bell nonlocality. In *Physical Review A*, 2017, vol. 96, no. 5, art. no. 052127, [p. 1-17]. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947.
Citácie:
1. [1.1] JENCOVA, Anna. Incompatible measurements in a class of general probabilistic theories. In *PHYSICAL REVIEW A*. ISSN 2469-9926, 2018, vol. 98, no. 1, art. no. 012133., Registrované v: WOS
2. [1.1] ZHANG, Yuxia - ZOU, Jian - SHAO, Bin. Bell inequality, steering, incompatibility and Leggett-Garg inequality under coarsening measurement. In *QUANTUM INFORMATION PROCESSING*. ISSN 1570-0755, 2018, vol. 17, no. 7, pp., Registrované v: WOS
- ADCA218 PÓCS, Jozef. On possible generalization of fuzzy concept lattices using dually isomorphic retracts. In *Information Sciences*, 2012, vol. 210, p. 89-98. (2011: 2.833 - IF, 1.941 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0020-0255.
Citácie:
1. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS
- ADCA219 PÓCS, Jozef. Note on generating fuzzy concept lattices via Galois connections. In *Information Sciences*, 2012, vol. 185, no. 1, p. 128-136. (2011: 2.833 - IF, 1.941 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0020-0255.
Citácie:
1. [1.1] BUTKA, Peter - LOW, Thomas - KOTZYBA, Michael - HAUN, Stefan - NUERNBERGER, Andreas. Exploration of Web Search Results Based on the Formal Concept Analysis. In *SEMANTIC KEYWORD-BASED SEARCH ON STRUCTURED DATA SOURCES, IKC 2017*. ISSN 0302-9743, 2018, vol. 10546, p. 123-135., Registrované v: WOS
2. [1.1] BUTKA, Peter - SMATANA, Miroslav - NOVOTNA, Veronika. Interactive Visualization of Query Results Set from Information Retrieval Using Concept Lattices. In *INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY, PT I*. ISSN 2194-5357, 2018, vol. 655, p. 128-137., Registrované v: WOS

3. [1.1] CABRERA, Inma P. - CORDERO, Pablo - GARCIA-PARDO, Francisca - OJEDA-ACIEGO, Manuel - DE BAETS, Bernard. Galois Connections Between a Fuzzy Preordered Structure and a General Fuzzy Structure. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1274-1287., Registrované v: WOS
 4. [1.1] CIOBANU, Gabriel - VAIDEANU, Cristian. A note on similarity relations between fuzzy attribute-oriented concept lattices. In *INFORMATION SCIENCES*. ISSN 0020-0255, 2018, vol. 460, p. 254-263., Registrované v: WOS
 5. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS
 6. [1.2] SMATANA, Miroslav - BUTKA, Peter. Formal concept analysis reduction method based on modified hamming distance. In *DISA 2018 IEEE World Symposium on Digital Intelligence for Systems and Machines, Proceedings*, 2018, p. 189-194., Registrované v: SCOPUS
- ADCA220 PÓCS, Jozef - PÓCSOVÁ, Jana. Basic theorem as representation of heterogeneous concept lattices. In *Frontiers of Computer Science*, 2015, vol. 9, no. 4, p. 636-642. (2014: 0.434 - IF, Q4 - JCR, 0.339 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 2095-2228.
- Citácie:
1. [1.1] BUTKA, Peter - LOW, Thomas - KOTZYBA, Michael - HAUN, Stefan - NUERNBERGER, Andreas. Exploration of Web Search Results Based on the Formal Concept Analysis. In *SEMANTIC KEYWORD-BASED SEARCH ON STRUCTURED DATA SOURCES, IKC 2017*. ISSN 0302-9743, 2018, vol. 10546, p. 123-135., Registrované v: WOS
 2. [1.1] BUTKA, Peter - SMATANA, Miroslav - NOVOTNA, Veronika. Interactive Visualization of Query Results Set from Information Retrieval Using Concept Lattices. In *INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY, PT I*. ISSN 2194-5357, 2018, vol. 655, p. 128-137., Registrované v: WOS
- ADCA221 POSPÍŠIL, Michal - MEDVEĎ, Milan - ŠKRIPKOVÁ, Lucia. Stability and the nonexistence of blowing-up solutions of nonlinear delay systems with linear parts defined by permutable matrices. In *Nonlinear Analysis: Theory, Methods & Applications*, 2011, vol. 74, no. 12, p. 3903-3911. (2010: 1.279 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0362-546X.
- Citácie:
1. [1.1] CAO, Xiaokai - WANG, JinRong. Finite-time stability of a class of oscillating systems with two delays. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, pp. 4943-4954., Registrované v: WOS
 2. [1.1] LI, Mengmeng - WANG, JinRong. Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, no., pp. 254-265., Registrované v: WOS
 3. [1.1] LIANG, Chengbin - WANG, JinRong - FECKAN, Michal. A study on ILC for linear discrete systems with single delay. In *JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS*. ISSN 1023-6198, 2018, vol. 24, no. 3, p. 358-374., Registrované v: WOS
 4. [1.1] LIANG, Chengbin - WANG, JinRong - O'; REGAN, D. Representation of a solution for a fractional linear system with pure delay. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 77, no., pp. 72-78., Registrované v: WOS

5. [1.1] LIANG, Chengbin - WANG, JinRong. Analysis of iterative learning control for an oscillating control system with two delays. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 6, pp. 1757-1765., Registrované v: WOS
6. [1.1] LUO, Zijian - XIONG, Wenjun - YU, Xinghuo. Consensus Tracking in Multi-Node Systems Using Iterative Learning Control Based on Delay Exponential Matrix. In *UNMANNED SYSTEMS*. ISSN 2301-3850, 2018, vol. 6, no. 3, pp. 209-219., Registrované v: WOS
7. [1.1] MAHMUDOV, N. Representation of solutions of discrete linear delay systems with non permutable matrices. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, no., pp. 8-14., Registrované v: WOS
8. [1.1] WANG, JinRong - LUO, Zijian - SHEN, Dong. Iterative learning control for linear delay systems with deterministic and random impulses. In *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS*. ISSN 0016-0032, 2018, vol. 355, no. 5, pp. 2473-2497., Registrované v: WOS
9. [1.1] WANG, JinRong - LUO, Zijian. Finite time stability of semilinear multi-delay differential systems. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 9, pp. 2948-2959., Registrované v: WOS
10. [1.1] YOU, Zhongli - WANG, JinRong - O'REGAN, D. Asymptotic stability of solutions of impulsive multi-delay differential equations. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 15, pp. 4143-4152., Registrované v: WOS
11. [1.1] YOU, Zhongli - WANG, JinRong. On the exponential stability of nonlinear delay systems with impulses. In *IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION*. ISSN 0265-0754, 2018, vol. 35, no. 3, pp. 773-803., Registrované v: WOS
12. [1.1] YOU, Zhongli - WANG, JinRong. Stability of impulsive delay differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, pp. 253-268., Registrované v: WOS
13. [1.1] ZHU, Quanxin - SONG, Shiyun - SHI, Peng. Effect of noise on the solutions of non-linear delay systems. In *IET CONTROL THEORY AND APPLICATIONS*. ISSN 1751-8644, 2018, vol. 12, no. 13, pp. 1822-1829., Registrované v: WOS

ADCA222 POSPÍŠIL, Michal. Relative controllability of neutral differential equations with a delay. In *SIAM Journal on Control and Optimization*, 2017, vol. 55, no. 2, p. 835-855. (2016: 1.450 - IF, Q1 - JCR, 1.543 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0363-0129.

Citácie:

1. [1.1] CAO, Xiaokai - WANG, JinRong. Finite-time stability of a class of oscillating systems with two delays. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, pp. 4943-4954., Registrované v: WOS
2. [1.1] LI, Mengmeng - DEBBOUCHE, Amar - WANG, JinRong. Relative controllability in fractional differential equations with pure delay. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 18, pp. 8906-8914., Registrované v: WOS

ADCA223 POSPÍŠIL, Michal. Representation and stability of solutions of systems of functional differential equations with multiple delays. In *Electronic Journal of Qualitative Theory of Differential Equations*, 2012, no. 54, p. 1-30. (2011: 0.557 - IF, 0.810 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1417-3875.

Citácie:

1. [1.1] LI, Mengmeng - WANG, JinRong. Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, no., pp. 254-265., Registrované v: WOS
2. [1.1] LIANG, Chengbin - WANG, JinRong - FECKAN, Michal. A study on ILC for linear discrete systems with single delay. In *JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS*. ISSN 1023-6198, 2018, vol. 24, no. 3, p. 358-374., Registrované v: WOS
3. [1.1] LIANG, Chengbin - WANG, JinRong. Analysis of iterative learning control for an oscillating control system with two delays. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 6, pp. 1757-1765., Registrované v: WOS
4. [1.1] MAHMUDOV, N. Representation of solutions of discrete linear delay systems with non permutable matrices. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, no., pp. 8-14., Registrované v: WOS
5. [1.1] PHI HA. Spectral Characterizations of Solvability and Stability for Delay Differential-Algebraic Equations. In *ACTA MATHEMATICA VIETNAMICA*. ISSN 0251-4184, 2018, vol. 43, no. 4, pp. 715-735., Registrované v: WOS
6. [1.1] WANG, JinRong - LUO, Zijian. Finite time stability of semilinear multi-delay differential systems. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 9, pp. 2948-2959., Registrované v: WOS
7. [1.1] YOU, Zhongli - WANG, JinRong - O';REGAN, D. Asymptotic stability of solutions of impulsive multi-delay differential equations. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 15, pp. 4143-4152., Registrované v: WOS
8. [1.1] YOU, Zhongli - WANG, JinRong. On the exponential stability of nonlinear delay systems with impulses. In *IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION*. ISSN 0265-0754, 2018, vol. 35, no. 3, pp. 773-803., Registrované v: WOS
9. [1.1] YOU, Zhongli - WANG, JinRong. Stability of impulsive delay differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, pp. 253-268., Registrované v: WOS

ADCA224 POSPÍŠIL, Michal - MEDVEĎ, Milan. Sufficient conditions for the asymptotic stability of nonlinear multidelay differential equations with linear parts defined by pairwise permutable matrices. In *Nonlinear Analysis: Theory, Methods & Applications*, 2012, vol. 75, no. 7, p. 3348-3363. (2011: 1.536 - IF, 1.853 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0362-546X.

Citácie:

1. [1.1] CAO, Xiaokai - WANG, JinRong. Finite-time stability of a class of oscillating systems with two delays. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, pp. 4943-4954., Registrované v: WOS
2. [1.1] LI, Mengmeng - WANG, JinRong. Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, no., pp. 254-265., Registrované v: WOS
3. [1.1] LI, Mengmeng - WANG, JinRong. Representation of solution of a Riemann-Liouville fractional differential equation with pure delay. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, no., pp. 118-124., Registrované v: WOS

4. [1.1] LIANG, Chengbin - WANG, JinRong - FECKAN, Michal. A study on ILC for linear discrete systems with single delay. In JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS. ISSN 1023-6198, 2018, vol. 24, no. 3, p. 358-374., Registrované v: WOS
 5. [1.1] LIANG, Chengbin - WANG, JinRong - O'; REGAN, D. Representation of a solution for a fractional linear system with pure delay. In APPLIED MATHEMATICS LETTERS. ISSN 0893-9659, 2018, vol. 77, no., pp. 72-78., Registrované v: WOS
 6. [1.1] LIANG, Chengbin - WANG, JinRong - SHEN, Dong. Iterative learning control for linear discrete delay systems via discrete matrix delayed exponential function approach. In JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS. ISSN 1023-6198, 2018, vol. 24, no. 11, pp. 1756-1776., Registrované v: WOS
 7. [1.1] LIANG, Chengbin - WANG, JinRong. Analysis of iterative learning control for an oscillating control system with two delays. In TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL. ISSN 0142-3312, 2018, vol. 40, no. 6, pp. 1757-1765., Registrované v: WOS
 8. [1.1] MAHMUDOV, N. Representation of solutions of discrete linear delay systems with non permutable matrices. In APPLIED MATHEMATICS LETTERS. ISSN 0893-9659, 2018, vol. 85, no., pp. 8-14., Registrované v: WOS
 9. [1.1] WANG, JinRong - LUO, Zijian - SHEN, Dong. Iterative learning control for linear delay systems with deterministic and random impulses. In JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS. ISSN 0016-0032, 2018, vol. 355, no. 5, pp. 2473-2497., Registrované v: WOS
 10. [1.1] WANG, JinRong - LUO, Zijian. Finite time stability of semilinear multi-delay differential systems. In TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL. ISSN 0142-3312, 2018, vol. 40, no. 9, pp. 2948-2959., Registrované v: WOS
 11. [1.1] YOU, Zhongli - WANG, JinRong - O'; REGAN, D. Asymptotic stability of solutions of impulsive multi-delay differential equations. In TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL. ISSN 0142-3312, 2018, vol. 40, no. 15, pp. 4143-4152., Registrované v: WOS
 12. [1.1] YOU, Zhongli - WANG, JinRong. On the exponential stability of nonlinear delay systems with impulses. In IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION. ISSN 0265-0754, 2018, vol. 35, no. 3, pp. 773-803., Registrované v: WOS
 13. [1.1] YOU, Zhongli - WANG, JinRong. Stability of impulsive delay differential equations. In JOURNAL OF APPLIED MATHEMATICS AND COMPUTING. ISSN 1598-5865, 2018, vol. 56, no. 1-2, pp. 253-268., Registrované v: WOS
- ADCA225 PUCHAŁA, Zbigniew - JENČOVÁ, Anna - SEDLÁK, Michal - ZIMAN, Mário. Exploring boundaries of quantum convex structures : Special role of unitary processes. In Physical Review A, 2015, vol. 92, no. 1, art. no. 12304. (2014: 2.808 - IF, Q1 - JCR, 2.121 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1050-2947.
- Citácie:
1. [1.1] SPERLING, J. - WALMSLEY, I. A. Quasiprobability representation of quantum coherence. In PHYSICAL REVIEW A. ISSN 2469-9926, 2018, vol. 97, no. 6, 062327., Registrované v: WOS
- ADCA226 PULMANNOVÁ, Sylvia. Compatibility and decompositions of effects. In Journal of Mathematical Physics, 2002, vol. 43, no. 5, p. 2817-2830. ISSN 0022-2488.

Citácie:

1. [1.1] BORZOOEI, R. A. - DVURECENSKIJ, A. - SHARAFI, A. H. Generalized EMV-Effect Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, 2018, vol. 57, no. 8, p. 2267-2279., Registrované v: WOS

2. [1.1] DVURECENSKIJ, Anatolij. Sum of observables on MV-effect algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2485-2493., Registrované v: WOS

ADCA227 PULMANNOVÁ, Sylvia. Generalized Sasaki projections and Riesz ideals in pseudoeffect algebras. In International Journal of Theoretical Physics, 2003, vol. 42, p. 1413-1423. ISSN 0020-7748.

Citácie:

1. [1.1] AVALONE, Anna. An Aumann-Shapley type operator in Pseudo-D-lattices. In RICERCHE DI MATEMATICA. ISSN 0035-5038, 2018, vol. 67, no. 2, pp. 413-432., Registrované v: WOS

ADCA228 PULMANNOVÁ, Sylvia. On fuzzy hidden variables. In Fuzzy Sets and Systems, 2005, vol. 155, s. 119-137. ISSN 0165-0114.

Citácie:

1. [1.2] DASS, Anuli - SRIVASTAVA, Smriti. On Comparing Performance of Conventional Fuzzy System with Recurrent Fuzzy System. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018-01-01, 583, p. 389-403., Registrované v: SCOPUS

ADCA229 PULMANNOVÁ, Sylvia. Tensor product of quantum logics. In Journal of Mathematical Physics, 1985, vol. 26, p. 1-5. ISSN 0022-2488.

Citácie:

1. [1.1] TYLEC, Tomasz I. - KUS, Marek. Ignorance is a bliss: Mathematical structure of many-box models. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2018, vol. 59, no. 3, art. nr. 32202., Registrované v: WOS

ADCA230 PULMANNOVÁ, Sylvia. Transition-probability spaces. In Journal of Mathematical Physics, 1986, vol. 27, s. 1791-1795. ISSN 0022-2488.

Citácie:

1. [1.1] GUOA, Xiao-Kan. Transition probability spaces in loop quantum gravity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2018, vol. 59, no. 3, art. nr. 32302., Registrované v: WOS

ADCA231 PULMANNOVÁ, Sylvia. A note on observables on MV algebras. In Soft Computing, 2000, vol. 4, p. 45-48. ISSN 1432-7643.

Citácie:

1. [1.1] JANDA, Jiri - XIE, Yongjian. The spectrum of the sum of observables on sigma-complete MV-effect algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS

ADCA232 PULMANNOVÁ, Sylvia. Mielnik and cantoni transition probabilities. In International Journal of Theoretical Physics, 1989, vol. 28, no. 7, p. 711-718. ISSN 0020-7748.

Citácie:

1. [1.1] GUOA, Xiao-Kan. Transition probability spaces in loop quantum gravity. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2018, vol. 59, no. 3, art. nr. 32302., Registrované v: WOS

ADCA233 PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Compatibility of observables on effect algebras. In Soft Computing, 2016, vol. 20, no. 10, p. 3957-3967. (2015: 1.630 - IF, Q2 - JCR, 0.724 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1432-7643. Dostupné na internete: <<http://link.springer.com/article/10.1007/s00500-015-1984-y?view=classic>>.

Citácie:

1. [1.1] JANDA, Jiri - XIE, Yongjian. *The spectrum of the sum of observables on sigma-complete MV-effect algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8041-8049., Registrované v: WOS
- ADCA234 PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Congruences and ideals in lattice effect algebras as basic algebras. In *Kybernetika*, 2009, vol. 45, no. 6, p. 1030-1039. (2008: 0.281 - IF). ISSN 0023-5954.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *Ideals and congruences in quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 12, p. 3879-3889., Registrované v: WOS
- ADCA235 PULMANNOVÁ, Sylvia - MAJERNÍK, Vladimír. Bell inequalities on quantum-logics. In *Journal of Mathematical Physics*, 1992, vol. 33, p. 2173-2178. ISSN 0022-2488.
- Citácie:
1. [1.1] SVOZIL, K. *Physical (A)Causality: Determinism, Randomness and Uncaused Events*. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, p. 1-219., Registrované v: WOS
- ADCA236 PULMANNOVÁ, Sylvia. Hidden variables and Bell inequalities on quantum logics. In *Foundations of Physics*, 2002, vol. 32, no. 2, s. 193-216. ISSN 0015-9018.
- Citácie:
1. [1.1] SVOZIL, K. *Physical (A)Causality: Determinism, Randomness and Uncaused Events*. In *PHYSICAL (A)CAUSALITY: DETERMINISM, RANDOMNESS AND UNCAUSED EVENTS*. ISSN 0168-1222, 2018, vol. 192, no., p. 1-219., Registrované v: WOS
- ADCA237 PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. MV-pairs and state operators. In *Fuzzy Sets and Systems*, 2015, vol. 260, p. 62-76. (2014: 1.986 - IF, Q1 - JCR, 1.461 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
- ADCA238 PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. State-morphism pseudo-effect algebras. In *Soft Computing*, 2014, vol. 18, p. 5-13. (2013: 1.304 - IF, 0.857 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1432-7643.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
- ADCA239 RASPAUD, A. - SCHRÖDER, H. - SÝKORA, O. - TÖRÖK, Ľubomír - VRŤO, Imrich. Antibandwidth and cyclic antibandwidth of meshes and hypercubes. In *Discrete Mathematics*, 2009, vol. 309, p. 3541-3552. (2008: 0.502 - IF). ISSN 0012-365X.
- Citácie:
1. [1.1] BEKOS, Michael A. - KAUFMANN, Michael - KOBOUROV, Stephen G. - STAVROPOULOS, Konstantinos - VEERAMONI, Sankar. *The maximum k-differential coloring problem*. In *JOURNAL OF DISCRETE ALGORITHMS*. ISSN 1570-8667, 2017, vol. 45, p. 35-53., Registrované v: WOS

2. [1.2] PARDO, Eduardo G. - MARTÍ, Rafael - DUARTE, Abraham. Linear layout problems. In *Handbook of Heuristics*, 2018, vol. 2-2, p. 1025-1049., *Registrované v: SCOPUS*
- ADCA240 RIEČAN, Beloslav. On limit theorems in fuzzy quantum spaces. In *Fuzzy Sets and Systems*, 1999, vol. 101, no. 1, p. 79-86. ISSN 0165-0114.
Citácie:
1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2471-2483., *Registrované v: WOS*
- ADCA241 RIEČAN, Beloslav. On the Dobrakov submeasure on fuzzy sets. In *Fuzzy Sets and Systems*, 2005, vol. 151, no. 3, p. 635-641. ISSN 0165-0114.
Citácie:
1. [2.1] SINGH, Akhilesh Kumar. INVARIANCE OF NONATOMIC MEASURES ON EFFECT ALGEBRAS. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 2, p. 311-318., *Registrované v: WOS*
- ADCA242 RIEČAN, Beloslav. Kolmogorov-Sinaj entropy on MV-algebras. In *International Journal of Theoretical Physics*, 2005, vol. 44, no. 7, p. 1041-1052. ISSN 0020-7748.
Citácie:
1. [1.1] GISKI, Zahra Eslami - EBRAHIMZADEH, Abolfazl - MARKECHOVA, Dagmar. Logical entropy on effect algebras with the Riesz decomposition property. In *EUROPEAN PHYSICAL JOURNAL PLUS*. ISSN 2190-5444, 2018, vol. 133, no. 7, pp., *Registrované v: WOS*
2. [1.1] KHARE, Mona - SHUKLA, Anurag. Kolmogorov-Sinai entropy for p-preserving systems. In *ADVANCES IN PURE AND APPLIED MATHEMATICS*. ISSN 1867-1152, 2018, vol. 9, no. 1, pp. 37-53., *Registrované v: WOS*
3. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, pp., *Registrované v: WOS*
4. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, pp., *Registrované v: WOS*
5. [1.2] MARKECHOVÁ, Dagmar - EBRAHIMZADEH, Abolfazl. R-norm entropy and R-norm divergence in product MV-algebras. In *Soft Computing*. ISSN 14327643, 2018-01-01, pp., *Registrované v: SCOPUS*
- ADCA243 RIEČAN, Beloslav. An entropy construction inspired by fuzzy sets. In *Soft Computing*, 2003, vol. 7, no. 7, p. 486-488. ISSN 1432-7643.
Citácie:
1. [1.1] DOMPERE, K. K. Theory of Info-Dynamics: Rational Foundations of Information-Knowledge Dynamics. In *THEORY OF INFO-DYNAMICS: RATIONAL FOUNDATIONS OF INFORMATION-KNOWLEDGE DYNAMICS*. ISSN 2198-4182, 2018, vol. 114, no., pp. 1-+., *Registrované v: WOS*
2. [1.1] DOMPERE, K. K. Theory of Info-Dynamics: Rational Foundations of Information-Knowledge Dynamics. In *THEORY OF INFO-DYNAMICS: RATIONAL FOUNDATIONS OF INFORMATION-KNOWLEDGE DYNAMICS*. ISSN 2198-4182, 2018, vol. 114, p. 1-192., *Registrované v: WOS*
3. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., *Registrované v: WOS*

4. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, pp., Registrované v: WOS
 5. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS
 6. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, pp., Registrované v: WOS
 7. [1.1] MARKECHOVA, Dagmar. *Tsallis Entropy of Fuzzy Dynamical Systems*. In *MATHEMATICS*. ISSN 2227-7390, 2018, vol. 6, no. 11, pp., Registrované v: WOS
- ADCA244 RIEČAN, Beloslav. On the probability theory on MV algebras. In *Soft Computing*, 2000, vol. 4, no. 1, p. 49-57. ISSN 1432-7643.
- Citácie:
1. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, pp., Registrované v: WOS
 2. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS
- ADCA245 RIEČAN, Beloslav. On a problem of Radko Mesiar: general form of IF-probabilities. In *Fuzzy Sets and Systems*, 2006, vol. 157, no.11, p. 1485-1490. (2006 - Current Contents). ISSN 0165-0114.
- Citácie:
1. [1.1] DAS, Satyajit - GUHA, Debashree - MESIAR, Radko. *Information Measures in the Intuitionistic Fuzzy Framework and Their Relationships*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 3, p. 1626-1637., Registrované v: WOS
 2. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, p. 2471-2483., Registrované v: WOS
 3. [1.2] BARTKOVÁ, Renáta - ČUNDERLÍKOVÁ, Katarína. *About fisher-tippett-gnedenko theorem for intuitionistic fuzzy events*. In *Advances in Intelligent Systems and Computing*. ISSN 21945357, 2018, vol. 641, p. 125-135., Registrované v: SCOPUS
- ADCA246 ROSAEV, A. - PLÁVALOVÁ, Eva. On relative velocity in very young asteroid families. In *Icarus*, 2018, vol. 304, p. 135-142. (2017: 2.981 - IF, Q2 - JCR, 2.037 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035. Dostupné na internete: <<https://www.sciencedirect.com/science/article/pii/S001910351730012X?via%3Dihub>>.
- Citácie:
1. [1.1] NOVAKOVIC, Bojan - HSIEH, Henry H. - GRONCHI, Giovanni F. *Special issue on asteroids Introduction*. In *ICARUS*. ISSN 0019-1035, 2018, vol. 304, p. 1-3., Registrované v: WOS

- ADCA247 SHAHROKHI, F. - SÝKORA, O. - SZÉKELY, L.A. - VRŤO, Imrich. The crossing number of a graph on a compact 2-manifold. In *Advances in Mathematics*, 1996, vol. 123, p. 105-119. ISSN 0001-8708.
Citácie:
1. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA248 SHAHROKHI, F. - SÝKORA, O. - SZÉKELY, L. A. - VRŤO, Imrich. Drawing graphs on surfaces with few crossings. In *Algorithmica*, 1996, vol. 16, p. 118-131. ISSN 0178-4617.
Citácie:
1. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA249 SHAHROKHI, F. - SÝKORA, O. - SZÉKELY, L. A. - VRŤO, Imrich. A new lower bound for the bipartite crossing number with applications. In *Theoretical Computer Science*, 2000, vol. 245, p. 281-294. ISSN 0304-3975.
Citácie:
1. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA250 SHAHROKHI, F. - SÝKORA, O. - SZEKELY, L.A. - VRŤO, Imrich. The book crossing number of a graph. In *Journal of Graph Theory*, 1996, vol. 21, p. 413-424. ISSN 0364-9024.
Citácie:
1. [1.1] DUQUE, Frank - GONZALEZ-AGUILAR, Hernan - HERNADEZ-VELEZ, Cesar - LEANOS, Jesus - MEDINA, Carolina. *The complexity of computing the cylindrical and the t-circle crossing number of a graph*. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018, vol. 25, no. 2., Registrované v: WOS
2. [1.2] KLAWITTER, Jonathan - MCHEDLIDZE, Tamara - NÖLLENBURG, Martin. *Experimental evaluation of book drawing algorithms*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, 10692 LNCS, p. 224-238., Registrované v: SCOPUS
3. [1.2] KLUTE, Fabian - NÖLLENBURG, Martin. *Minimizing crossings in constrained two-sided circular graph layouts*. In *Leibniz International Proceedings in Informatics, LIPIcs*. ISSN 18688969, 2018, vol. 99, p. 531-5314., Registrované v: SCOPUS
4. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA251 SHAHROKHI, F. - SÝKORA, O. - SZEKELY, L.A. - VRŤO, Imrich. On bipartite drawings and the linear arrangement problem. In *SIAM Journal on Computing*, 2001, vol. 30, p. 1773-1789. ISSN 0097-5397.

Citácie:

1. [1.1] CHIMANI, Markus - FELSNER, Stefan - KOBOUROV, Stephen - UECKERDT, Torsten - VALTR, Pavel - WOLFF, Alexander. On the Maximum Crossing Number. In COMBINATORIAL ALGORITHMS, IWOCA 2017. ISSN 0302-9743, 2018, vol. 10765, p. 61-74., Registrované v: WOS
 2. [1.1] PAVLOPOULOS, Georgios A. - KONTOU, Panagiota I. - PAVLOPOULOU, Athanasia - BOUYIOUKOS, Costas - MARKOU, Evripides - BAGOS, Pantelis G. Bipartite graphs in systems biology and medicine: a survey of methods and applications. In GIGASCIENCE. ISSN 2047-217X, 2018, vol. 7, no. 4., Registrované v: WOS
 3. [1.2] CHIMANI, Markus - FELSNER, Stefan - KOBOUROV, Stephen - UECKERDT, Torsten - VALTR, Pavel - WOLFF, Alexander. On the maximum crossing number. In Journal of Graph Algorithms and Applications. ISSN 15261719, 2018, vol. 22, no. 1, p. 67-87., Registrované v: SCOPUS
 4. [1.2] PARDO, Eduardo G. - MARTÍ, Rafael - DUARTE, Abraham. Linear layout problems. In Handbook of Heuristics, 2018, vol. 2-2, p. 1025-1049., Registrované v: SCOPUS
 5. [1.2] SCHAEFER, Marcus. The graph crossing number and its variants: A survey. In Electronic Journal of Combinatorics, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA252 SHAHROKHI, Farhad - SÝKORA, Ondrej - SZÉKELY, László Aladár - VRŤO, Imrich. On k-planar crossing numbers. In Discrete Applied Mathematics, 2007, vol. 155, no. 9, p. 1106-1115. ISSN 0166-218X.
- Citácie:
1. [1.2] SCHAEFER, Marcus. The graph crossing number and its variants: A survey. In Electronic Journal of Combinatorics, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADCA253 SCHINDLER, Ralf-Dieter - STEEL, John - ZEMAN, Martin. Deconstructing inner model theory. In Journal of Symbolic Logic, 2002, vol. 67, no. 2, p. 721-736. ISSN 0022-4812.
- Citácie:
1. [1.1] GOLDBERG, Gabriel. The linearity of the Mitchell order. In JOURNAL OF MATHEMATICAL LOGIC. ISSN 0219-0613, 2018, vol. 18, no. 1, pp., Registrované v: WOS
- ADCA254 SCHWARZ, Štefan. Universal formulae of Euler-Fermat type for subsets of Z_m . In Collectanea mathematica, 1995, vol. 46, no. 1-2, p. 183-193. ISSN 0010-0757.
- Citácie:
1. [1.1] PORUBSKY, Stefan. IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 6, pp. 1231-1312., Registrované v: WOS
- ADCA255 SMUTNÁ-HLINENÁ, D. - VOJTÁŠ, Peter. Graded many-valued resolution with aggregation. In Fuzzy Sets and Systems, 2004, vol. 143, no. 1, p. 157-168. ISSN 0165-0114.
- Citácie:
1. [1.1] XU, Yang - LIU, Jun - HE, Xingxing - ZHONG, Xiaomei - CHEN, Shuwei. Non-Clausal Multi-ary alpha-Generalized Resolution Calculus for a Finite Lattice-Valued Logic. In INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS. ISSN 1875-6891, 2018, vol. 11, no. 1, pp. 384-401., Registrované v: WOS

- ADCA256 STACHO, Ladislav. New upper bounds for the chromatic number of a graph. In *Journal of graph theory*, 2001, vol. 36, no. 2, p. 117-120. ISSN 0364-9024.
Citácie:
1. [1.1] *BOROWIECKI, Piotr. Computational aspects of greedy partitioning of graphs. In JOURNAL OF COMBINATORIAL OPTIMIZATION. ISSN 1382-6905, 2018, vol. 35, no. 2, p. 641-665., Registrované v: WOS*
- ADCA257 SÝKORA, O. - VRTO, Imrich. Optimal VLSI layouts of the star graph and related networks. In *Integration-The VLSI Journal*, 1994, vol. 17, p. 83-93.
Citácie:
1. [1.1] *DUJMOVIC, Vida - JORET, Gwenael - MORIN, Pat - NORIN, Sergey - WOOD, David R. ORTHOGONAL TREE DECOMPOSITIONS OF GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2018, vol. 32, no. 2, p. 839-863., Registrované v: WOS*
2. [1.2] *FAN, Weibei - FAN, Jianxi - LIN, Cheng Kuan - HAN, Zhijie - LI, Peng - WANG, Ruchuan. Embedding exchanged hypercubes into rings and ladders. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018, vol. 11335 LNCS, p. 3-17., Registrované v: SCOPUS*
3. [1.2] *PACH, János. Geometric graph theory. In Handbook of Discrete and Computational Geometry, Third Edition, 2017, p. 257-279., Registrované v: SCOPUS*
- ADCA258 ŠUCH, Ondrej - BARREDA, Santiago. Bayes covariant multi-class classification. In *Pattern Recognition Letters*, 2016, vol. 84, p. 99-106. (2015: 1.586 - IF, Q2 - JCR, 0.976 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0167-8655.
Citácie:
1. [1.1] *FERAIDOONI, Mohammad Mahdi - GHARAVIAN, Davood. A new approach for rotation-invariant and noise-resistant texture analysis and classification. In MACHINE VISION AND APPLICATIONS. ISSN 0932-8092, 2018, vol. 29, no. 3, p. 455-466., Registrované v: WOS*
2. [1.1] *ZHAO, Zhenchong - WANG, Xiaodan. Multi-segments Naive Bayes classifier in likelihood space. In IET COMPUTER VISION. ISSN 1751-9632, 2018, vol. 12, no. 6, p. 882-891., Registrované v: WOS*
3. [1.2] *SHARMA, Shashank - SRIVASTAVA, Sumit - KUMAR, Ashish - DANGI, Abhilasha. Multi-Class Sentiment Analysis Comparison Using Support Vector Machine (SVM) and BAGGING Technique-An Ensemble Method. In 2018 International Conference on Smart Computing and Electronic Enterprise, ICSCEE 2018, 2018-11-15., Registrované v: SCOPUS*
- ADCA259 WANG, J. - ZHOU, Y. - FEČKAN, Michal. Nonlinear impulsive problems for fractional differential equations and Ulam stability. In *Computers & Mathematics with Applications*, 2012, vol. 64, no. 10, p. 3389-3405. (2011: 1.747 - IF, 1.185 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0898-1221.
Citácie:
1. [1.1] *AHMAD, Naveed - ALI, Zeeshan - SHAH, Kamal - ZADA, Akbar - RAHMAN, Ghaus Ur. Analysis of Implicit Type Nonlinear Dynamical Problem of Impulsive Fractional Differential Equations. In COMPLEXITY. ISSN 1076-2787, 2018, art. no. 6423974., Registrované v: WOS*

2. [1.1] AHMADIAN, A. - SALAHSHOUR, S. - SENU, N. - ISMAIL, F. Some New Results on the Stability of Fractional Integro-Differential Equations Under Uncertainty. In RECENT ADVANCES ON SOFT COMPUTING AND DATA MINING (SCDM 2018). ISSN 2194-5357, 2018, vol. 700, p. 53-63., Registrované v: WOS
3. [1.1] ALI, Zeeshan - ZADA, Akbar - SHAH, Kamal. Ulam stability to a toppled systems of nonlinear implicit fractional order boundary value problem. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, 2018, art. no. 175., Registrované v: WOS
4. [1.1] ARDJOUNI, Abdelouaheb - BOULARES, Hamid - LASKRI, Yamina. Stability in higher-order nonlinear fractional differential equations. In ACTA ET COMMENTATIONES UNIVERSITATIS TARTUENSIS DE MATHEMATICA. ISSN 1406-2283, 2018, vol. 22, no. 1, p. 37-47., Registrované v: WOS
5. [1.1] CAO, Junying - CHEN, Lizhen - WANG, Ziqiang. A high-order numerical scheme for the impulsive fractional ordinary differential equations. In INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS. ISSN 0020-7160, 2018, vol. 95, no. 12, p. 2433-2457., Registrované v: WOS
6. [1.1] GOU, Haide - LI, Baolin. Local and Global Existence of Mild Solution to Fractional Semilinear Impulsive Volterra Type Integro-Differential Equation. In SOUTHEAST ASIAN BULLETIN OF MATHEMATICS. ISSN 0129-2021, 2018, vol. 42, no. 4, p. 545-558., Registrované v: WOS
7. [1.1] NIAZI, A. U. K. - WEI, J. - REHMAN, M. U. - DENGHAO, P. Ulam-Hyers-Mittag-Leffler stability for nonlinear fractional neutral differential equations. In SBORNIK MATHEMATICS. ISSN 1064-5616, 2018, vol. 209, no. 9, p. 1337-1350., Registrované v: WOS
8. [1.1] SEEMAB, Arjumand - REHMAN, Mujeeb Ur. EXISTENCE AND STABILITY ANALYSIS BY FIXED POINT THEOREMS FOR A CLASS OF NON-LINEAR CAPUTO FRACTIONAL DIFFERENTIAL EQUATIONS. In DYNAMIC SYSTEMS AND APPLICATIONS. ISSN 1056-2176, 2018, vol. 27, no. 3, p. 445-456., Registrované v: WOS
9. [1.1] SOUSA, J. Vanterler da C. - CAPELAS DE OLIVEIRA, E. Ulam-Hyers stability of a nonlinear fractional Volterra integro-differential equation. In APPLIED MATHEMATICS LETTERS. ISSN 0893-9659, 2018, vol. 81, p. 50-56., Registrované v: WOS
10. [1.1] YANG, Zhanpeng - REN, Wenjuan - XU, Tianzhou. ULAM-HYERS STABILITY FOR MATRIX-VALUED FRACTIONAL DIFFERENTIAL EQUATIONS. In JOURNAL OF MATHEMATICAL INEQUALITIES. ISSN 1846-579X, 2018, vol. 12, no. 3, p. 665-675., Registrované v: WOS
11. [1.1] ZHANG, Hai - YE, Renyu - CAO, Jinde - ALSAEDI, Ahmed. Delay-Independent Stability of Riemann-Liouville Fractional Neutral-Type Delayed Neural Networks. In NEURAL PROCESSING LETTERS. ISSN 1370-4621, 2018, vol. 47, no. 2, p. 427-442., Registrované v: WOS
12. [1.1] ZHANG, Hai - YE, Renyu - LIU, Song - CAO, Jinde - ALSAEDI, Ahmad - LI, Xiaodi. LMI-based approach to stability analysis for fractional-order neural networks with discrete and distributed delays. In INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE. ISSN 0020-7721, 2018, vol. 49, no. 3, p. 537-545., Registrované v: WOS
13. [1.1] ZHANG, Suping - JIANG, Wei. The existence and exponential stability of random impulsive fractional differential equations. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 404., Registrované v: WOS

14. [1.2] BISHOP, S. A. - OGUNDILE, O. P. - OGUNDIRAN, M. O. On stability of quantum stochastic differential equation. In *International Journal of Mechanical Engineering and Technology*. ISSN 09766340, 2018, vol. 9, no. 9, p. 367-374., Registrované v: SCOPUS
 15. [1.2] DERA KHSHAN, Mohammad Hossein - ANSARI, Alireza. On Hyers-Ulam stability of fractional differential equations with Prabhakar derivatives. In *Analysis (Germany)*. ISSN 01744747, 2018, vol. 38, no. 1, p. 37-46., Registrované v: SCOPUS
 16. [1.2] GRAYNA, J. - KAVITHA, V. A result on Ulam stability impulsive fractional integro-differential equation. In *Journal of Physics: Conference Series*. ISSN 17426588, 2018, vol. 1139, no. 1, art. no. 012054., Registrované v: SCOPUS
 17. [1.2] HARIKRISHNAN, S. - KANAGARAJAN, K. - SIVASUNDARAM, S. Stability analysis and dynamics of impulsive differential equations under Hilfer fractional derivative. In *Nonlinear Studies*. ISSN 13598678, 2018, vol. 25, no. 2, p. 403-415., Registrované v: SCOPUS
 18. [1.2] HARIKRISHNAN, S. - KANAGARAJAN, K. - VIVEK, D. Stability of fractional differential equations without singular Kernel. In *Discontinuity, Nonlinearity, and Complexity*. ISSN 21646376, 2018, vol. 7, no. 3, p. 253-257., Registrované v: SCOPUS
 19. [1.2] YU, Xiulan - GAO, Zhuoyan - LI, Mengmeng. On the ulam-hyers stability of some differential equations involving hadamard fractional derivatives. In *Journal of Computational Analysis and Applications*. ISSN 15211398, 2018, vol. 25, no. 8, p. 1442-1453., Registrované v: SCOPUS
- ADCA260 WANG, J. - ZHOU, Y. - FEČKAN, Michal. On recent developments in the theory of boundary value problems for impulsive fractional differential equations. In *Computers & Mathematics with Applications*, 2012, vol. 64, no. 10, p. 3008-3020. (2011: 1.747 - IF, 1.185 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0898-1221.
- Citácie:
1. [1.1] AHMAD, Bashir - NTOUYAS, Sotiris K. - ALSAEDI, Ahmed - SHAMMAKH, Wafa - AGARWAL, Ravi P. Existence theory for fractional differential equations with non-separated type nonlocal multi-point and multi-strip boundary conditions. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 89., Registrované v: WOS
 2. [1.1] CAO, Junying - CHEN, Lizhen - WANG, Ziqiang. A high-order numerical scheme for the impulsive fractional ordinary differential equations. In *INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS*. ISSN 0020-7160, 2018, vol. 95, no. 12, p. 2433-2457., Registrované v: WOS
 3. [1.1] FEN, Fatma Tokmak. ON THE SOLUTIONS OF A MULTI-POINT BVP FOR FRACTIONAL DIFFERENTIAL EQUATIONS WITH IMPULSES. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 2, p. 847-863., Registrované v: WOS
 4. [1.1] GOU, Haide - LI, Baolin. Existence of Mild Solutions for Sobolev-Type Hilfer Fractional Nonautonomous Evolution Equations with Delay. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 5, p. 481-492., Registrované v: WOS
 5. [1.1] GOU, Haide - LI, Baolin. Local and Global Existence of Mild Solution to Fractional Semilinear Impulsive Volterra Type Integro-Differential Equation. In *SOUTHEAST ASIAN BULLETIN OF MATHEMATICS*. ISSN 0129-2021, 2018, vol. 42, no. 4, p. 545-558., Registrované v: WOS

6. [1.1] GOU, Haide - LI, Baolin. Study on Sobolev type Hilfer fractional integro-differential equations with delay. In JOURNAL OF FIXED POINT THEORY AND APPLICATIONS. ISSN 1661-7738, 2018, vol. 20, no. 1, art. no. 44., Registrované v: WOS
7. [1.1] KAYAR, Zeynep. An existence and uniqueness result for linear fractional impulsive boundary value problems as an application of Lyapunov type inequality. In HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS. ISSN 1303-5010, 2018, vol. 47, no. 2, p. 287-297., Registrované v: WOS
8. [1.1] LIU, Yuji - WONG, Patricia J. Y. Recent studies on boundary value problems for impulsive fractional differential systems involving Caputo fractional derivatives. In BOLETIN DE LA SOCIEDAD MATEMATICA MEXICANA. ISSN 1405-213X, 2018, vol. 24, no. 2, p. 393-425., Registrované v: WOS
9. [1.1] LIU, Yuji. General methods for converting impulsive fractional differential equations to integral equations and applications. In MATHEMATISCHE NACHRICHTEN. ISSN 0025-584X, 2018, vol. 291, no. 2-3, p. 443-491., Registrované v: WOS
10. [1.1] LIU, Yuji. Solvability of BVPs for impulsive fractional differential equations involving the Riemann-Liouville fractional derivatives. In STUDIA UNIVERSITATIS BABES-BOLYAI MATHEMATICA. ISSN 0252-1938, 2018, vol. 63, no. 1, p. 79-108., Registrované v: WOS
11. [1.1] SALEM, Sara - ALSAEDI, Ahmed - AHMAD, Bashir - AL-YAMI, Maryem. Arbitrary order fractional differential equations and inclusions with new integro-multipoint boundary conditions. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 395., Registrované v: WOS
12. [1.1] STAMOVA, Ivanka - STAMOV, Gani - SIMEONOV, Stanislav - IVANOV, Alexander. Mittag-Leffler stability of impulsive fractional-order bi-directional associative memory neural networks with time-varying delays. In TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL. ISSN 0142-3312, 2018, vol. 40, no. 10, p. 3068-3077., Registrované v: WOS
13. [1.2] SUANTAI, Suthep - NTOUYAS, S. K. - TARIBOON, Jessada. Existence results for a coupled system of fractional differential equations with multiple orders of fractional derivatives and integrals. In Journal of Computational Analysis and Applications. ISSN 15211398, 2018, vol. 24, no. 7, p. 1292-1303., Registrované v: SCOPUS

ADCA261 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order differential switched systems with coupled nonlocal initial and impulsive conditions. In Bulletin des sciences mathématiques, 2017, vol. 141, no. 7, p. 727-746. (2016: 0.750 - IF, Q3 - JCR, 0.738 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0007-4497. Dostupné na internete: <<http://www.sciencedirect.com/science/article/pii/S0007449717300702>>.

Citácie:

1. [1.1] ALI, Zeeshan - ZADA, Akbar - SHAH, Kamal. Ulam stability to a toppled systems of nonlinear implicit fractional order boundary value problem. In BOUNDARY VALUE PROBLEMS. ISSN 1687-2770, 2018, art. no. 175., Registrované v: WOS
2. [1.1] ALKHAZZAN, Abdulwasea - JIANG, Peng - BALEANU, Dumitru - KHAN, Hasib - KHAN, Aziz. Stability and existence results for a class of nonlinear fractional differential equations with singularity. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, 2018, vol. 41, no. 18, p. 9321-9334., Registrované v: WOS

3. [1.1] CHEN, Pengyu - XIN, Zhen - AN, Jiahui. Continuous Dependence on Data for Solutions of Fractional Extended Fisher-Kolmogorov Equation. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 7-8, p. 735-739., Registrované v: WOS
 4. [1.1] PANG, Denghao - JIANG, Wei - NIAZI, Azmat U. K. Fractional derivatives of the generalized Mittag-Leffler functions. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 415., Registrované v: WOS
- ADCA262 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Center stable manifold for planar fractional damped equations. In *Applied Mathematics and Computation*, 2017, vol. 296, p. 257-269. (2016: 1.738 - IF, Q1 - JCR, 0.944 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0096-3003.
- Citácie:
1. [1.1] LIU, Zhenhai - LI, Xuemei - ZENG, Biao. Optimal feedback control for fractional neutral dynamical systems. In *OPTIMIZATION*. ISSN 0233-1934, 2018, vol. 67, no. 5, p. 549-564., Registrované v: WOS
- ADCA263 WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Differential inclusions of arbitrary fractional order with anti-periodic conditions in Banach spaces. In *Electronic Journal of Qualitative Theory of Differential Equations*, 2016, no. 34, p.1-22. (2015: 0.732 - IF, Q2 - JCR, 0.555 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1417-3875. Dostupné na internete: <<http://www.math.u-szeged.hu/ejqtde/p4596.pdf>>.
- Citácie:
1. [1.1] KAMENSKII, Mikhail - OBUKHOVSKII, Valeri - PETROSYAN, Garik - YAO, Jen-Chih. Boundary value problems for semilinear differential inclusions of fractional order in a Banach space. In *APPLICABLE ANALYSIS*. ISSN 0003-6811, 2018, vol. 97, no. 4, p. 571-591., Registrované v: WOS
- ADCA264 WANG, JinRong - FEČKAN, Michal - TIAN, Ying. Stability analysis for a general class of non-instantaneous impulsive differential equations. In *Mediterranean Journal of Mathematics*, 2017, vol. 14, no. 2, art. no. 46. (2016: 0.868 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1660-5446. Dostupné na internete: <<https://link.springer.com/content/pdf/10.1007%2Fs00009-017-0867-0.pdf>>.
- Citácie:
1. [1.1] CAPELAS DE OLIVEIRA, E. - SOUSA, J. Vanterler da C. Ulam-Hyers-Rassias Stability for a Class of Fractional Integro-Differential Equations. In *RESULTS IN MATHEMATICS*. ISSN 1422-6383, 2018, vol. 73, no. 3, art. no. 111., Registrované v: WOS
 2. [1.1] SITHO, Surang - NTOUYAS, Sotiris K. - AGARWAL, Praveen - TARIBOON, Jessada. Noninstantaneous impulsive inequalities via conformable fractional calculus. In *JOURNAL OF INEQUALITIES AND APPLICATIONS*. ISSN 1029-242X, 2018, art. no. 261., Registrované v: WOS
 3. [1.1] SOUSA, J. Vanterler da C. - CAPELAS DE OLIVEIRA, E. Ulam-Hyers stability of a nonlinear fractional Volterra integro-differential equation. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 81, p. 50-56., Registrované v: WOS
 4. [1.1] ZHU, Bo - LIU, Lishan. Periodic boundary value problems for fractional semilinear integro-differential equations with non-instantaneous impulses. In *BOUNDARY VALUE PROBLEMS*. ISSN 1687-2770, 2018, art. no. 128., Registrované v: WOS

- ADCA265 WANG, JinRong - FEČKAN, Michal. A general class of impulsive evolution equations. In *Topological Methods in Nonlinear Analysis*, 2015, vol. 46, no. 2, p. 915-933. (2014: 0.477 - IF, Q3 - JCR, 0.577 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1230-3429.
- Citácie:
1. [1.1] CHALISHAJAR, Dimplekumar - KUMAR, Avadhesh. Existence, Uniqueness and Ulam's Stability of Solutions for a Coupled System of Fractional Differential Equations with Integral Boundary Conditions. In *MATHEMATICS*. ISSN 2227-7390, 2018, vol. 6, no. 6, art. no. 96., Registrované v: WOS
 2. [1.1] KHALIQ, Adnan - REHMAN, Mujeeb Ur. On variational methods to non-instantaneous impulsive fractional differential equation. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 83, p. 95-102., Registrované v: WOS
 3. [1.1] KUMAR, Avadhesh - MUSLIM, M. - SAKTHIVEL, R. Controllability of the Second-Order Nonlinear Differential Equations with Non-instantaneous Impulses. In *JOURNAL OF DYNAMICAL AND CONTROL SYSTEMS*. ISSN 1079-2724, 2018, vol. 24, no. 2, p. 325-342., Registrované v: WOS
 4. [1.1] MUSLIM, Malik - KUMAR, Avadhesh. Controllability of Fractional Differential Equation of Order (1,2] With Non-Instantaneous Impulses. In *ASIAN JOURNAL OF CONTROL*. ISSN 1561-8625, 2018, vol. 20, no. 2, p. 935-942., Registrované v: WOS
 5. [1.2] DERA KHSHAN, Mohammad Hossein - ANSARI, Alireza. On Hyers-Ulam stability of fractional differential equations with Prabhakar derivatives. In *Analysis (Germany)*. ISSN 01744747, 2018, vol. 38, no. 1, p. 37-46., Registrované v: SCOPUS
 6. [1.2] YU, Xiulan - GAO, Zhuoyan - LI, Mengmeng. On the ulam-hyers stability of some differential equations involving hadamard fractional derivatives. In *Journal of Computational Analysis and Applications*. ISSN 15211398, 2018, vol. 25, no. 8, p. 1442-1453., Registrované v: SCOPUS
- ADCA266 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. A survey on impulsive fractional differential equations. In *Fractional Calculus and Applied Analysis*, 2016, vol. 19, no. 4, p. 806-831. (2015: 2.246 - IF, Q1 - JCR, 1.449 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1311-0454. Dostupné na internete:
<https://www.researchgate.net/publication/307597695_A_survey_on_impulsive_fractional_differential_equations>.
- Citácie:
1. [1.1] AGARWAL, Ravi - HRISTOVA, Snezhana - O'REGAN, Donal. Global Mittag-Leffler Synchronization for Neural Networks Modeled by Impulsive Caputo Fractional Differential Equations with Distributed Delays. In *SYMMETRY-BASEL*. ISSN 2073-8994, 2018, vol. 10, no. 10, art. no. 473., Registrované v: WOS
 2. [1.1] AHMED, Hamdy M. - EL-BORAI, Mahmoud M. - EL-OWAIDY, Hassan M. - GHANEM, Ahmed S. Impulsive Hilfer fractional differential equations. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 226., Registrované v: WOS
 3. [1.1] AHMED, Hamdy M. - EL-BORAI, Mahmoud M. Hilfer fractional stochastic integro-differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 331, p. 182-189., Registrované v: WOS

4. [1.1] CAPELAS DE OLIVEIRA, E. - SOUSA, J. Vanterler da C. *Ulam-Hyers-Rassias Stability for a Class of Fractional Integro-Differential Equations*. In *RESULTS IN MATHEMATICS*. ISSN 1422-6383, 2018, vol. 73, no. 3, art. no. 111., Registrované v: WOS
5. [1.1] MAHMUDOV, Nazim. *FINITE-APPROXIMATE CONTROLLABILITY OF FRACTIONAL EVOLUTION EQUATIONS: VARIATIONAL APPROACH*. In *FRACTIONAL CALCULUS AND APPLIED ANALYSIS*. ISSN 1311-0454, 2018, vol. 21, no. 4, p. 919-936., Registrované v: WOS
6. [1.1] SOUSA, J. Vanterler da C. - CAPELAS DE OLIVEIRA, E. *Ulam-Hyers stability of a nonlinear fractional Volterra integro-differential equation*. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 81, p. 50-56., Registrované v: WOS
7. [1.1] STAMOV, G. T. - STAMOVA, I. M. - CAO, Jinde. *Uncertain impulsive functional differential systems of fractional order and almost periodicity*. In *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS*. ISSN 0016-0032, 2018, vol. 355, no. 12, p. 5310-5323., Registrované v: WOS
8. [1.1] WU, Guo-Cheng - BALEANU, Dumitru. *STABILITY ANALYSIS OF IMPULSIVE FRACTIONAL DIFFERENCE EQUATIONS*. In *FRACTIONAL CALCULUS AND APPLIED ANALYSIS*. ISSN 1311-0454, 2018, vol. 21, no. 2, p. 354-375., Registrované v: WOS
9. [1.1] ZHAI, Chengbo - REN, Jing. *The unique solution for a fractional q-difference equation with three-point boundary conditions*. In *INDAGATIONES MATHEMATICAE-NEW SERIES*. ISSN 0019-3577, 2018, vol. 29, no. 3, p. 948-961., Registrované v: WOS
10. [1.1] ZHAI, Chengbo - WANG, Weixuan - LI, Hongyu. *A uniqueness method to a new Hadamard fractional differential system with four-point boundary conditions*. In *JOURNAL OF INEQUALITIES AND APPLICATIONS*. ISSN 1029-242X, 2018, art. no. 207., Registrované v: WOS
11. [1.1] ZHAO, Yulin - SHI, Xiaoyan - CHEN, Haibo. *Multiplicity results for a class of fractional differential equations with impulse*. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 341., Registrované v: WOS
12. [1.1] ZUO, Mingyue - HAO, Xinan - LIU, Lishan - CUI, Yujun. *Existence results for impulsive fractional integro-differential equation of mixed type with constant coefficient and antiperiodic boundary conditions*. In *BOUNDARY VALUE PROBLEMS*. ISSN 1687-2770, 2017, art. no. 161., Registrované v: WOS

ADCA267 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. *Approximate controllability of Sobolev type fractional evolution systems with nonlocal conditions*. In *Evolution Equations and Control Theory*, 2017, vol. 6, no. 3, p. 471-486. (2016: 0.826 - IF, Q2 - JCR, 0.999 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2163-2480. Dostupné na internete:

<<http://aims sciences.org/journals/pdfs.jsp?paperID=14338&mode=full>>.

Citácie:

1. [1.1] AHMED, Hamdy M. - EL-BORAI, Mahmoud M. - EL-OWAIDY, Hassan M. - GHANEM, Ahmed S. *Impulsive Hilfer fractional differential equations*. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 226., Registrované v: WOS
2. [1.1] FEDOROV, Vladimir E. - GORDIEVSKIKH, Dmitriy M. *Approximate Controllability of Strongly Degenerate Fractional Order System of Distributed Control*. In *IFAC PAPERSONLINE*. ISSN 2405-8963, 2018, vol. 51, no. 32, p. 675-680., Registrované v: WOS

- ADCA268 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Presentation of solutions of impulsive fractional Langevin equations and existence results. In *The European Physical Journal Special Topics*, 2013, vol. 222, no. 8, p. 1857-1874. (2012: 1.796 - IF, 0.912 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1951-6355.
Citácie:
1. [1.1] GAO, Zhuoyan - YU, Xiulan. Existence results for BVP of a class of Hilfer fractional differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 217-233., Registrované v: WOS
 2. [1.1] WANG, Haihua. Bounded solutions for fuzzy integral equations of fractional order. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 45., Registrované v: WOS
 3. [1.1] ZHAI, Chengbo - LI, Pingping - LI, Hongyu. Single upper-solution or lower-solution method for Langevin equations with two fractional orders. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 360., Registrované v: WOS
 4. [1.1] ZHAI, Chengbo - LI, Pingping. Nonnegative Solutions of Initial Value Problems for Langevin Equations Involving Two Fractional Orders. In *MEDITERRANEAN JOURNAL OF MATHEMATICS*. ISSN 1660-5446, 2018, vol. 15, no. 4, art. no. 164., Registrované v: WOS
 5. [1.2] LONG, Teng - LI, Chengfu - HE, Jiawei. Existence of positive solutions for period BVPs with Hilfer derivative. In *Journal of Applied Mathematics and Computing*. ISSN 15985865, 2018, p. 1-14., Registrované v: SCOPUS
- ADCA269 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Ulam's type stability of impulsive ordinary differential equations. In *Journal of Mathematical Analysis and Applications*, 2012, vol. 395, no. 1, p. 258-264. (2011: 1.001 - IF, 1.594 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-247X.
Citácie:
1. [1.1] ABBAS, Said - BENCHOHRA, Mouffak - HAMIDI, Naima. STABILITY FOR IMPULSIVE FRACTIONAL DIFFERENTIAL INCLUSIONS VIA PICARD OPERATORS IN BANACH SPACES. In *JOURNAL OF NONLINEAR FUNCTIONAL ANALYSIS*. ISSN 2052-532X, 2018, art. no. 44., Registrované v: WOS
 2. [1.1] ALI, Zeeshan - ZADA, Akbar - SHAH, Kamal. Ulam stability to a toppled systems of nonlinear implicit fractional order boundary value problem. In *BOUNDARY VALUE PROBLEMS*. ISSN 1687-2770, 2018, art. no. 175., Registrované v: WOS
 3. [1.1] BENCHOHRA, M. - BOURIAH, S. - HENDERSON, J. Nonlinear Implicit Hadamard's Fractional Differential Equations with Retarded and Advanced Arguments. In *AZERBAIJAN JOURNAL OF MATHEMATICS*. ISSN 2218-6816, 2018, vol. 8, no. 2, p. 72-85., Registrované v: WOS
 4. [1.1] CAPELAS DE OLIVEIRA, E. - SOUSA, J. Vanterler da C. Ulam-Hyers-Rassias Stability for a Class of Fractional Integro-Differential Equations. In *RESULTS IN MATHEMATICS*. ISSN 1422-6383, 2018, vol. 73, no. 3, art. no. 111., Registrované v: WOS
 5. [1.1] GOU, Haide - LI, Baolin. Existence of Mild Solutions for Sobolev-Type Hilfer Fractional Nonautonomous Evolution Equations with Delay. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 5, p. 481-492., Registrované v: WOS

6. [1.1] GOU, Haide - LI, Baolin. Study on Sobolev type Hilfer fractional integro-differential equations with delay. In JOURNAL OF FIXED POINT THEORY AND APPLICATIONS. ISSN 1661-7738, 2018, vol. 20, no. 1, art. no. 44., Registrované v: WOS
7. [1.1] KHALIQ, Adnan - REHMAN, Mujeeb Ur. On variational methods to non-instantaneous impulsive fractional differential equation. In APPLIED MATHEMATICS LETTERS. ISSN 0893-9659, 2018, vol. 83, p. 95-102., Registrované v: WOS
8. [1.1] NIAZI, A. U. K. - WEI, J. - REHMAN, M. U. - DENGHAO, P. Ulam-Hyers-Mittag-Leffler stability for nonlinear fractional neutral differential equations. In SBORNIK MATHEMATICS. ISSN 1064-5616, 2018, vol. 209, no. 9, p. 1337-1350., Registrované v: WOS
9. [1.1] SHAH, Kamal - ALI, Arshad - BUSHNAQ, Samia. Hyers-Ulam stability analysis to implicit Cauchy problem of fractional differential equations with impulsive conditions. In MATHEMATICAL METHODS IN THE APPLIED SCIENCES. ISSN 0170-4214, 2018, vol. 41, no. 17, p. 8329-8343., Registrované v: WOS
10. [1.1] ZADA, Akbar - ALI, Sartaj. Stability Analysis of Multi-point Boundary Value Problem for Sequential Fractional Differential Equations with Non-instantaneous Impulses. In INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION. ISSN 1565-1339, 2018, vol. 19, no. 7-8, p. 763-774., Registrované v: WOS
11. [1.1] ZADA, Akbar - SHAH, Syed Omar. Hyers-Ulam stability of first-order non-linear delay differential equations with fractional integrable impulses. In HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS. ISSN 1303-5010, 2018, vol. 47, no. 5, p. 1196-1205., Registrované v: WOS
12. [1.2] BISHOP, S. A. - OGUNDILE, O. P. - OGUNDIRAN, M. O. On stability of quantum stochastic differential equation. In International Journal of Mechanical Engineering and Technology. ISSN 09766340, 2018, vol. 9, no. 9, p. 367-374., Registrované v: SCOPUS
13. [1.2] DERAKHSHAN, Mohammad Hossein - ANSARI, Alireza. On Hyers-Ulam stability of fractional differential equations with Prabhakar derivatives. In Analysis (Germany). ISSN 01744747, 2018, vol. 38, no. 1, p. 37-46., Registrované v: SCOPUS
14. [1.2] YU, Xiulan - GAO, Zhuoyan - LI, Mengmeng. On the ulam-hyers stability of some differential equations involving hadamard fractional derivatives. In Journal of Computational Analysis and Applications. ISSN 15211398, 2018, vol. 25, no. 8, p. 1442-1453., Registrované v: SCOPUS

ADCA270 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Relaxed controls for nonlinear fractional impulsive evolution equations. In Journal of Optimization Theory and Applications, 2013, vol. 156, no. 1, p. 13-32. (2012: 1.423 - IF, 1.274 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-3239.

Citácie:

1. [1.1] BUONAMICI, Francesco - CARFAGNI, Monica - FURFERI, Rocco - GOVERNI, Lapo - LAPINI, Alessandro - VOLPE, Yary. Reverse engineering of mechanical parts: A template-based approach. In JOURNAL OF COMPUTATIONAL DESIGN AND ENGINEERING. ISSN 1052-6188, 2018, vol. 5, no. 2, p. 145-159., Registrované v: WOS
2. [1.1] GAUTAM, Ganga Ram - DABAS, Jaydev. A study on existence of solutions for fractional functional differential equations. In COLLECTANEA MATHEMATICA. ISSN 0010-0757, 2018, vol. 69, no. 1, p. 25-37., Registrované v: WOS

3. [1.1] GOU, Haide - LI, Baolin. Existence of Mild Solutions for Sobolev-Type Hilfer Fractional Nonautonomous Evolution Equations with Delay. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 5, p. 481-492., Registrované v: WOS
 4. [1.1] GOU, Haide - LI, Baolin. Study on Sobolev type Hilfer fractional integro-differential equations with delay. In *JOURNAL OF FIXED POINT THEORY AND APPLICATIONS*. ISSN 1661-7738, 2018, vol. 20, no. 1, art. no. UNSP 44., Registrované v: WOS
 5. [1.1] YAN, Zuomao - LU, Fangxia. Solvability and Optimal Controls of a Fractional Impulsive Stochastic Partial Integro-Differential Equation with State-Dependent Delay. In *ACTA APPLICANDAE MATHEMATICAE*. ISSN 0167-8019, 2018, vol. 155, no. 1, p. 57-84., Registrované v: WOS
 6. [1.1] YOO, Jin Eun. TIMSS 2011 Student and Teacher Predictors for Mathematics Achievement Explored and Identified via Elastic Net. In *FRONTIERS IN PSYCHOLOGY*. ISSN 1664-1078, 2018, vol. 9, art. no. 317., Registrované v: WOS
- ADCA271 WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Abstract Cauchy problem for fractional differential equations. In *Nonlinear Dynamics*, 2013, vol. 71, no. 4, p. 685-700. (2012: 3.009 - IF, 0.900 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0924-090X.
- Citácie:
1. [1.1] CHEN, Pengyu - XIN, Zhen - AN, Jiahui. Continuous Dependence on Data for Solutions of Fractional Extended Fisher-Kolmogorov Equation. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 7-8, p. 735-739., Registrované v: WOS
 2. [1.1] CHEN, Pengyu - ZHANG, Xuping - LI, Yongxiang. A BLOWUP ALTERNATIVE RESULT FOR FRACTIONAL NON-AUTONOMOUS EVOLUTION EQUATION OF VOLTERRA TYPE. In *COMMUNICATIONS ON PURE AND APPLIED ANALYSIS*. ISSN 1534-0392, 2018, vol. 17, no. 5, p. 1975-1992., Registrované v: WOS
 3. [1.1] CHENG, Yi - AGARWAL, Ravi P. - O'REGAN, Donal. EXISTENCE AND CONTROLLABILITY FOR NONLINEAR FRACTIONAL DIFFERENTIAL INCLUSIONS WITH NONLOCAL BOUNDARY CONDITIONS AND TIME-VARYING DELAY. In *FRACTIONAL CALCULUS AND APPLIED ANALYSIS*. ISSN 1311-0454, 2018, vol. 21, no. 4, p. 960-980., Registrované v: WOS
 4. [1.1] CHENG, Yi - GAO, Shanshan - WU, Yuhu. Exact controllability of fractional order evolution equations in Banach spaces. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 332., Registrované v: WOS
 5. [1.1] GOU, Haide - LI, Baolin. Local and Global Existence of Mild Solution to Fractional Semilinear Impulsive Volterra Type Integro-Differential Equation. In *SOUTHEAST ASIAN BULLETIN OF MATHEMATICS*. ISSN 0129-2021, 2018, vol. 42, no. 4, p. 545-558., Registrované v: WOS
 6. [1.1] GOU, Haide - LI, Baolin. Study on Sobolev type Hilfer fractional integro-differential equations with delay. In *JOURNAL OF FIXED POINT THEORY AND APPLICATIONS*. ISSN 1661-7738, 2018, vol. 20, no. 1, art. no. 44., Registrované v: WOS

7. [1.1] KALAMANI, Palaniyappan - BALEANU, Dumitru - ARJUNAN, Mani Mallika. Local existence for an impulsive fractional neutral integro-differential system with Riemann-Liouville fractional derivatives in a Banach space. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 416., Registrované v: WOS
 8. [1.1] MU, Jia - HUANG, Shuibo - GUO, Ling. Existence and Regularity of q -Mild Solutions to Fractional Evolution Equations with Noncompact Semigroups. In *DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS*. ISSN 0971-3514, 2018, vol. 26, no. 1-3, p. 3-14., Registrované v: WOS
 9. [1.1] ZHANG, Di - LIANG, Yue. Existence and controllability of fractional evolution equation with sectorial operator and impulse. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 219., Registrované v: WOS
 10. [1.1] ZHANG, Quanguo - LI, Yaning. The critical exponent for a time fractional diffusion equation with nonlinear memory. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 16, p. 6443-6456., Registrované v: WOS
 11. [1.1] ZHU, Tao. New Henry-Gronwall Integral Inequalities and Their Applications to Fractional Differential Equations. In *BULLETIN OF THE BRAZILIAN MATHEMATICAL SOCIETY*. ISSN 1678-7544, 2018, vol. 49, no. 3, p. 647-657., Registrované v: WOS
- ADCA272 WANG, JinRong - IBRAHIM, Ahmed Gamal - FEČKAN, Michal. Nonlocal impulsive fractional differential inclusions with fractional sectorial operators on Banach spaces. In *Applied Mathematics and Computation*, 2015, vol. 257, p. 103-118. (2014: 1.551 - IF, Q1 - JCR, 0.976 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0096-3003.
- Citácie:
1. [1.1] CAPELAS DE OLIVEIRA, E. - SOUSA, J. Vanterler da C. Ulam-Hyers-Rassias Stability for a Class of Fractional Integro-Differential Equations. In *RESULTS IN MATHEMATICS*. ISSN 1422-6383, 2018, vol. 73, no. 3, art. no. UNSP 111., Registrované v: WOS
 2. [1.1] CHEN, Lizhen - LI, Gang. Existence Results for Generalized Bagley-Torvik Type Fractional Differential Inclusions with Nonlocal Initial Conditions. In *JOURNAL OF FUNCTION SPACES*. ISSN 2314-8896, 2018, art. no. 2761321., Registrované v: WOS
 3. [1.1] DU, Jun - JIANG, Wei - PANG, Denghao - NIAZI, Azmat Ullah Khan. Exact Controllability for Hilfer Fractional Differential Inclusions Involving Nonlocal Initial Conditions. In *COMPLEXITY*. ISSN 1076-2787, 2018, art. no. 9472847., Registrované v: WOS
 4. [1.1] GAO, Zhuoyan - YU, Xiulan. Existence results for BVP of a class of Hilfer fractional differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 217-233., Registrované v: WOS
 5. [1.1] GAUTAM, Ganga Ram - DABAS, Jaydev. A study on existence of solutions for fractional functional differential equations. In *COLLECTANEA MATHEMATICA*. ISSN 0010-0757, 2018, vol. 69, no. 1, p. 25-37., Registrované v: WOS
 6. [1.1] KAMENSKII, Mikhail - OBUKHOVSKII, Valeri - PETROSYAN, Garik - YAO, Jen-Chih. Boundary value problems for semilinear differential inclusions of fractional order in a Banach space. In *APPLICABLE ANALYSIS*. ISSN 0003-6811, 2018, vol. 97, no. 4, p. 571-591., Registrované v: WOS

7. [1.1] KHALIQ, Adnan - REHMAN, Mujeeb Ur. On variational methods to non-instantaneous impulsive fractional differential equation. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 83, p. 95-102., Registrované v: WOS
8. [1.1] LIU, Xiping - JIA, Mei. The method of lower and upper solutions for the general boundary value problems of fractional differential equations with p -Laplacian. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 28., Registrované v: WOS
9. [1.1] ZHANG, Di - LIANG, Yue. Existence and controllability of fractional evolution equation with sectorial operator and impulse. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 219., Registrované v: WOS
10. [1.1] ZHANG, Suping - JIANG, Wei. The existence and exponential stability of random impulsive fractional differential equations. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 404., Registrované v: WOS
11. [1.1] ZHANG, Xuping - LI, Yongxiang. Fractional Retarded Evolution Equations with Measure of Noncompactness Subjected to Mixed Nonlocal Plus Local Initial Conditions. In *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*. ISSN 1565-1339, 2018, vol. 19, no. 1, p. 69-81., Registrované v: WOS
12. [1.2] XIANG, Yi - LI, Biwen. Synchronization of memristor-based fractional-order neural networks with time-varying delays via pinning and adaptive control. In *2017 International Workshop on Complex Systems and Networks, IWCSN 2017*, 2018, p. 71-77., Registrované v: SCOPUS
13. [1.2] YU, Xiulan - GAO, Zhuoyan - LI, Mengmeng. On the ulam-hyers stability of some differential equations involving hadamard fractional derivatives. In *Journal of Computational Analysis and Applications*. ISSN 15211398, 2018, vol. 25, no. 8, p. 1442-1453., Registrované v: SCOPUS
- ADCA273 WANG, JinRong - ZHU, Chun - FEČKAN, Michal. Analysis of Abel type nonlinear integral equations with weakly singular kernels. In *Boundary Value Problems*, 2014, art. no. 20, p. 1-16. (2013: 0.836 - IF, 0.689 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1687-2762.
Citácie:
 1. [1.1] LI, Chenkuan - CLARKSON, Kyle. Babenko's Approach to Abel's Integral Equations. In *MATHEMATICS*. ISSN 2227-7390, 2018, vol. 6, no. 3, art. no. 32., Registrované v: WOS
 2. [1.1] LI, Chenkuan - HUMPHRIES, Thomas - PLOWMAN, Hunter. Solutions to Abel's Integral Equations in Distributions. In *AXIOMS*. ISSN 2075-1680, 2018, vol. 7, no. 3, art. no. 66., Registrované v: WOS
 3. [1.1] LI, Chenkuan - LI, Changpin - CLARKSON, Kyle. Several Results of Fractional Differential and Integral Equations in Distribution. In *MATHEMATICS*. ISSN 2227-7390, 2018, vol. 6, no. 6, art. no. 97., Registrované v: WOS
 4. [1.1] MICULA, Sanda. An iterative numerical method for fractional integral equations of the second kind. In *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*. ISSN 0377-0427, 2018, vol. 339, p. 124-133., Registrované v: WOS
- ADCA274 WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. On the nonlocal Cauchy problem for semilinear fractional order evolution equations. In *Central European Journal of Mathematics*, 2014, vol. 12, no. 6, p. 911-922. (2013: 0.519 - IF, karentované - CCC). (2014 - Current Contents). ISSN 1895-1074.

Citácie:

1. [1.1] AHMAD, Bashir - ALSAEDI, Ahmed - AGARWAL, Ravi P. - ALSHARIF, Alaa. *On Sequential Fractional Integro-Differential Equations with Nonlocal Integral Boundary Conditions*. In *BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY*. ISSN 0126-6705, 2018, vol. 41, no. 4, p. 1725-1737., Registrované v: WOS
2. [1.1] AHMAD, Bashir - ALSAEDI, Ahmed - ALJOUDI, Shorog - NTOUYAS, Sotiris K. *A six-point nonlocal boundary value problem of nonlinear coupled sequential fractional integro-differential equations and coupled integral boundary conditions*. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 367-389., Registrované v: WOS
3. [1.1] PROMSAKON, Chanon - PHUANGTHONG, Nawapol - NTOUYAS, Sotiris K. - TARIBOON, Jessada. *Nonlinear sequential Riemann-Liouville and Caputo fractional differential equations with generalized fractional integral conditions*. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 385., Registrované v: WOS
4. [1.2] ALSAEDI, Ahmed - AQLAN, Mohammed H. - AHMAD, Bashir. *On anti-periodic type boundary value problems of sequential fractional differential equations of order $q \in (2, 3]$* . In *Journal of Computational Analysis and Applications*. ISSN 15211398, 2018, vol. 24, no. 2, p. 310-317., Registrované v: SCOPUS

ADCA275 WAWER, M. J. - JARAMILIO, D. E. - DANČÍK, Vladimír - FASS, D. M. - HAGGARTY, S. J. - SHAMJI, A. F. - WAGNER, B. K. - SCHREIBER, S. L. - CLEMONS, P. A. *Automated Structure-Activity Relationship Mining: Connecting Chemical Structure to Biological Profiles*. M. J. Wawer, D. E. Jaramilio, V. Dancik, D. M. Fass, S. J. Haggarty, A. F. Shamji, B. K. Wagner, S. L. Schreiber and P. A. Clemons. In *Journal of Biomolecular Screening*, 2014, vol. 19, no. 5, p. 738-748. (2013: 2.012 - IF, 0.966 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1087-0571.

Citácie:

1. [1.1] NASSIRI, Isar - MCCALL, Matthew N. *Systematic exploration of cell morphological phenotypes associated with a transcriptomic query*. In *NUCLEIC ACIDS RESEARCH*. ISSN 0305-1048, 2018, vol. 46, no. 19, art. no. e116., Registrované v: WOS

ADCA276 WAWER, Mathias J. - LI, Kejie - GUSTAFSDOTTIR, Sigrun M. - LJOSA, Vebjorn - BODYCOMBE, Nicole E. - MARTON, Melissa A. - SOKOLNICKI, Katherine L. - BRAY, Mark-Anthony - KEMP, Melissa M. - WINCHESTER, Ellen - TAYLOR, Bradley - GRANT, George B. - HON, Suk-Yee C. - DUVALL, Jeremy - WILSON, Anthony J. - BITTKER, Joshua A. - DANČÍK, Vladimír - NARAYAN, Rajiv - SUBRAMANIAN, Aravind - WINCKLER, Wendy - GOLUB, Todd R. - CARPENTER, Anne E. - SHAMJI, Alykhan F. - SCHREIBER, Stuart L. - CLEMONS, Paul A. *Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling*. In *Proceedings of the National Academy of Sciences of the United States of America*, 2014, vol. 111, no. 30, p. 10911-10916. (2013: 9.809 - IF, 6.989 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0027-8424.

Citácie:

1. [1.1] ASHENDEN, Stephanie Kay. *Screening Library Design*. In *MODERN APPROACHES IN DRUG DISCOVERY*. ISSN 0076-6879, 2018, vol. 610, p. 73-96., Registrované v: WOS

2. [1.1] GUDURU, Shiva Krishna Reddy - CHAMAKURI, Srinivas - RAJI, Idris O. - MACKENZIE, Kevin R. - SANTINI, Conrad - YOUNG, Damian W. Synthesis of Enantiomerically Pure 3-Substituted Piperazine-2-acetic Acid Esters as Intermediates for Library Production. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 19, p. 11777-11793., Registrované v: WOS
3. [1.1] LARAIA, Luca - ROBKE, Lucas - WALDMANN, Herbert. Bioactive Compound Collections: From Design to Target Identification. In CHEM. ISSN 2451-9294, 2018, vol. 4, no. 4, p. 705-730., Registrované v: WOS
4. [1.1] MARKLEIN, Ross A. - LAM, Johnny - GUVENDIREN, Murat - SUNG, Kyung E. - BAUER, Steven R. Functionally-Relevant Morphological Profiling: A Tool to Assess Cellular Heterogeneity. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 1, p. 105-118., Registrované v: WOS
5. [1.1] NASSIRI, Isar - MCCALL, Matthew N. Systematic exploration of cell morphological phenotypes associated with a transcriptomic query. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, 2018, vol. 46, no. 19, art. no. e116., Registrované v: WOS
6. [1.1] OMAR, Abdelsattar M. - ABDELGHANY, Tamer M. - ABDEL-BAKKY, Mohamed S. - ALANDAL, Abdulrahman M. - RADWAN, Mohamed F. - EL-ARABY, Moustafa E. Design, Synthesis and Antiproliferative Activities of Oxidative Stress Inducers Based on 2-Styryl-3,5-dihydro-4H-imidazol-4-one Scaffold. In CHEMICAL & PHARMACEUTICAL BULLETIN. ISSN 0009-2363, 2018, vol. 66, no. 10, p. 967-975., Registrované v: WOS
7. [1.1] ORELLANA, Adelina - GONZALEZ, Vicente Garcia - LOPEZ, Rosa - PASCUAL-GUIRAL, Sonia - LOZOYA, Estrella - DIAZ, Julia - CASALS, Daniel - BARRENA, Antolin - PARIS, Stephane - ANDRES, Miriam - SEGARRA, Victor - VILELLA, Dolors - MALHOTRA, Rajneesh - EASTWOOD, Paul - PLANAGUMA, Anna - MIRALPEIX, Montserrat - NUEDA, Arsenio. Application of a phenotypic drug discovery strategy to identify biological and chemical starting points for inhibition of TSLP production in lung epithelial cells. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, art. no. e0189247., Registrované v: WOS
8. [1.1] SAHA, Arjun - VARGHESE, Teena - LIU, Annie - ALLEN, Samantha J. - MIRZADEGAN, Taraneh - HACK, Michael D. An Analysis of Different Components of a High-Throughput Screening Library. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2018, vol. 58, no. 10, p. 2057-2068., Registrované v: WOS
9. [1.1] WEI, Yulei - PANDIAN, Ganesh N. - YU, Zutao - ZOU, Tingting - LI, Yue - DAROKAR, Jayant - HASHIYA, Kaori - BANDO, Toshikazu - SUGIYAMA, Hiroshi. Synthetic DNA-Binding Inhibitor of HES1 Alters the Notch Signaling Pathway and Induces Neuronal Differentiation. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 3, p. 3608-3616., Registrované v: WOS
10. [1.1] ZHANG, Qi - ZHANG, Jingyu - GAVATHIOTIS, Evripidis. ICBS 2017 in Shanghai-Illuminating Life with Chemical Innovation. In ACS CHEMICAL BIOLOGY. ISSN 1554-8929, 2018, vol. 13, no. 5, p. 1111-1122., Registrované v: WOS
11. [1.2] BERG, Ellen L. Phenotypic chemical biology for predicting safety and efficacy. In Drug Discovery Today: Technologies, 2017, vol. 23, p. 53-60., Registrované v: SCOPUS
12. [1.2] DURAN-FRIGOLA, Miquel - FERNÁNDEZ-TORRAS, Adrià - BERTONI, Martino - ALOY, Patrick. Formatting biological big data for modern machine learning in drug discovery. In Wiley Interdisciplinary Reviews: Computational Molecular Science. ISSN 17590876, 2018, art. no. e1408., Registrované v: SCOPUS

13. [1.2] JACOBY, Edgar - BROWN, J. B. *The Future of Computational Chemogenomics. In Methods in Molecular Biology. ISSN 10643745, 2018, vol. 1825, p. 425-450., Registrované v: SCOPUS*
14. [1.2] LEE, Jonathan A. - CARRAGHER, Neil O. - BERG, Ellen L. *Empirical drug discovery: a view from the proteome. In Drug Discovery Today: Technologies, 2017, vol. 23, p. 1-5., Registrované v: SCOPUS*
15. [1.2] SCHEEDER, Christian - HEIGWER, Florian - BOUTROS, Michael. *Machine learning and image-based profiling in drug discovery. In Current Opinion in Systems Biology, 2018, vol. 10, p. 43-52., Registrované v: SCOPUS*
16. [1.2] SPEAR, Kerry L. - BROWN, Scott P. *The evolution of library design: crafting smart compound collections for phenotypic screens. In Drug Discovery Today: Technologies, 2017, vol. 23, p. 61-67., Registrované v: SCOPUS*
17. [1.2] WASSERMANN, Anne Mai - TUDOR, Matthew - GLICK, Meir. *Deorphanization strategies for dark chemical matter. In Drug Discovery Today: Technologies, 2017, vol. 23, p. 69-74., Registrované v: SCOPUS*

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

- ADCB01 AWREJCEWICZ, Jan - FEČKAN, Michal - OLEJNÍK, P. On continuous approximation of discontinuous systems. In *Nonlinear Analysis: Theory, Methods & Applications*, 2005, vol. 62, no. 7, p. 1317-1331. ISSN 0362-546X.
Citácie:
1. [1.1] DU, Zhouwei - FANG, Hongbin - ZHAN, Xiong - XU, Jian. *Experiments on vibration-driven stick-slip locomotion: A sliding bifurcation perspective. In MECHANICAL SYSTEMS AND SIGNAL PROCESSING. ISSN 0888-3270, 2018, vol. 105, p. 261-275., Registrované v: WOS*
2. [1.1] WON, Hong-In - CHUNG, Jintai. *Numerical analysis for the stick-slip vibration of a transversely moving beam in contact with a frictional wall. In JOURNAL OF SOUND AND VIBRATION. ISSN 0022-460X, 2018, vol. 419, p. 42-62., Registrované v: WOS*
- ADCB02 BATTELLI, Flaviano - FEČKAN, Michal. Chaos in singular impulsive O.D.E. In *Nonlinear Analysis: Theory Methods & Applications*, 1997, vol. 28, no. 4, p. 655-671. ISSN 0362-546X.
Citácie:
1. [1.1] YOU, Zhongli - WANG, JinRong. *On the exponential stability of nonlinear delay systems with impulses. In IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION. ISSN 0265-0754, 2018, vol. 35, no. 3, p. 773-803., Registrované v: WOS*
- ADCB03 BERKA, T. - VAJTERŠIĆ, Marián. Parallel rare term vector replacement: Fast and effective dimensionality reduction for text. In *Journal of Parallel and Distributed Computing*, 2013, vol. 73, p. 341-351. (2012: 0.437 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0743-7315.
Citácie:
1. [1.1] AEINI, Faraein - MOGHADAM, Amir Masoud Eftekhari - MAHMOUDI, Fariborz. *Supervised hierarchical neighborhood graph construction for manifold learning. In SIGNAL IMAGE AND VIDEO PROCESSING. ISSN 1863-1703, 2018, vol. 12, no. 4, p. 799-807., Registrované v: WOS*
- ADCB04 FOULIS, D.J. - PULMANNOVÁ, Sylvia. Logical connectives on lattice effect algebras. In *Studia Logica*, 2012, vol. 100, no. 6, p. 1291-1315. ISSN 0039-3215.

Citácie:

1. [1.1] BORZOOEI, R. A. - DVURECENSKI, A. - SHARAFI, A. H. *Material implications in lattice effect algebras*. In *INFORMATION SCIENCES*. ISSN 0020-0255, 2018, vol. 433, p. 233-240., *Registrované v: WOS*
- ADCB05 GRUNEWALD, J. - KLEIN, J.R. - MACKO, Tibor. Operations on the A-theoretic nil-terms. In *Journal of Topology*, 2008, vol. 1, no. 2, p. 317-341. ISSN 1753-8416.
- Citácie:
1. [1.1] ENKELMANN, Nils-Edvin - LUECK, Wolfgang - PIEPER, Malte - ULLMANN, Mark - WINGES, Christoph. *On the Farrell-Jones conjecture for Waldhausen's A-theory*. In *GEOMETRY & TOPOLOGY*. ISSN 1465-3060, 2018, vol. 22, no. 6, p. 3321-3394., *Registrované v: WOS*
- ADCB06 ŠUCH, Ondrej. Vertex transitive maps on the Klein bottle. In *Ars Mathematica Contemporanea*, 2011, vol. 4, no. 2, s. 363-374. (2011 - Current Contents). ISSN 1855-3966.
- Citácie:
1. [1.1] DATTA, Basudeb - MAITY, Dipendu. *Semi-equivelar maps on the torus and the Klein bottle are Archimedean*. In *DISCRETE MATHEMATICS*. ISSN 0012-365X, 2018, vol. 341, no. 12, p. 3296-3309., *Registrované v: WOS*
2. [1.1] LUCIC, Zoran - MOLNAR, Emil - VASILJEVIC, Nebojsa. *An Algorithm for Classification of Fundamental Polygons for a Plane Discontinuous Group*. In *DISCRETE GEOMETRY AND SYMMETRY: DEDICATED TO KAROLY BEZDEK AND EGON SCHULTE ON THE OCCASION OF THEIR 60TH BIRTHDAYS*. ISSN 2194-1009, 2018, vol. 234, p. 257-278., *Registrované v: WOS*

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 BUTKA, P. - PÓCS, Jozef. Generalization of one-sided concept lattices. In *Computing and informatics*, 2013, vol. 32, no. 2, p. 355-370. (2012: 0.254 - IF, 0.242 - SJR, karentované - CCC). (2013 - Current Contents, WOS). ISSN 1335-9150.
- Citácie:
1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRIDLÓ, Ondrej. *On stability of fuzzy formal concepts over randomized one-sided formal context*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 36-53., *Registrované v: WOS*
2. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRIDLÓ, Ondrej. *On fuzzy generalizations of concept lattices*. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 79-103., *Registrované v: SCOPUS*
3. [1.2] LIÑEIRO-BAREA, Valentín - MEDINA, Jesús - MEDINA-BULO, Inmaculada. *Generating fuzzy attribute rules via fuzzy formal concept analysis*. In *Studies in Computational Intelligence*. ISSN 1860949X, 2018, vol. 758, p. 105-119., *Registrované v: SCOPUS*
- ADDA02 BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Distributed computation of generalized one-sided concept lattices on sparse data tables. In *Computing and Informatics*, 2015, vol. 34, no. 1, p. 77-98. (2014: 0.504 - IF, Q4 - JCR, 0.265 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1335-9150.
- Citácie:
1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRIDLÓ, Ondrej. *On stability of fuzzy formal concepts over randomized one-sided formal context*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 36-53., *Registrované v: WOS*

- ADDA03 MAJERNÍK, Vladimír. Quaternion formulation of the Galilean space-time transformation. In *Acta Physica Slovaca : journal for experimental and theoretical physics*, 2006, vol. 56, no. 1, p. 9-14. (2005: 0.359 - IF). (2006 - WOS, SCOPUS). ISSN 0323-0465.

Citácie:

1. [1.1] AYDIN, F. Torunbalci. *Bicomplex Fibonacci quaternions*. In *CHAOS SOLITONS & FRACTALS*. ISSN 0960-0779, 2018, vol. 106, p. 147-153., Registrované v: WOS
2. [1.1] AYDIN, Fugen Torunbalci. *Generalized dual Fibonacci quaternions with dual coefficient*. In *NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS*. ISSN 1310-5132, 2018, vol. 24, no. 4, p. 70-85., Registrované v: WOS
3. [1.2] CERDA-MORALES, Gamaliel. *Dual third-order Jacobsthal quaternions*. In *Proyecciones*. ISSN 07160917, 2018, vol. 37, no. 4, p. 731-747., Registrované v: SCOPUS

ADDB Vedecké práce v domácich karentovaných časopisoch – neimpaktovaných

- ADDB01 ELIAŠ, Peter. Arbault permitted sets are perfectly meager. In *Tatra Mountains Mathematical Publications*, 2005, vol. 30, p. 135-148. ISSN 1210-3195.

Citácie:

1. [1.1] DI SANTO, Raffaele - DIKRANJAN, Dikran - BRUNO, Anna Giordano. *Characterized subgroups of the circle group*. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 625-655., Registrované v: WOS

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, Marián. Dynamic ordering for a parallel block-Jacobi SVD algorithm. In *Parallel Computing*, 2002, vol. 28, no. 2, p. 243-262. ISSN 0167-8191.

Citácie:

1. [1.1] DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. *The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale*. In *SIAM REVIEW*. ISSN 0036-1445, 2018, vol. 60, no. 4, p. 808-865., Registrované v: WOS
2. [1.1] DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. *The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale*. In *SIAM REVIEW*. ISSN 0036-1445, 2018, vol. 60, no. 4, p. 808-865., Registrované v: WOS
3. [1.1] KUDO, Shuhei - YASUDA, Kousuke - YAMAMOTO, Yusaku. *Performance of the parallel block Jacobi method with dynamic ordering for the symmetric eigenvalue problem*. In *JSIAM LETTERS*. ISSN 1883-0609, 2018, vol. 10, no., p. 41-44., Registrované v: WOS

4. [1.1] XIAO, Peng - WANG, Zigeng - RAJASEKARAN, Sanguthevar. *Novel Speedup Techniques for Parallel Singular Value Decomposition. In IEEE 20TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS / IEEE 16TH INTERNATIONAL CONFERENCE ON SMART CITY / IEEE 4TH INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS), 2018, vol., no., p. 188-195., Registrované v: WOS*
- ADEA02 BUKOVSKÝ, L. - RECLAW, I. - REPICKÝ, Miroslav. Spaces not distinguishing pointwise and quasinormal convergence of real functions. In *Topology and its Applications*, 1991, vol. 41, no. 1-2, p. 25-40. ISSN 0166-8641.
- Citácie:
1. [1.1] KWELA, Adam. *Ideal weak QN-spaces. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2018, vol. 240, no., pp. 98-115., Registrované v: WOS*
 2. [1.1] OSIPOV, A. V. *Application of selection principles in the study of the properties of function spaces. In ACTA MATHEMATICA HUNGARICA. ISSN 0236-5294, 2018, vol. 154, no. 2, pp. 362-377., Registrované v: WOS*
- ADEA03 ČERNÁK, Štefan - JAKUBÍK, Ján. Completion of a cyclically ordered group. In *Czechoslovak Mathematical Journal*, 1987, vol. 37, p. 151-174. ISSN 0011-4642.
- Citácie:
1. [1.1] GLASNER, Eli - MEGRELISHVILI, Michael. *Circularly ordered dynamical systems. In MONATSHEFTE FÜR MATHEMATIK. ISSN 0026-9255, 2018, vol. 185, no. 3, p. 415-441., Registrované v: WOS*
- ADEA04 DU, S.F. - JONES, G. - KWAK, J.H. - NEDELA, Roman - ŠKOVIERA, M. Regular embeddings of $K_{n,n}$ where n is a power of 2. II: The non-metacyclic case. In *European Journal of Combinatorics*, 2010, vol. 31, s. 1946-1956. (2009: 0.822 - IF). ISSN 0195-6698.
- Citácie:
1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. *A Classification of Orientably Edge-Transitive Circular Embeddings of. In ANNALS OF COMBINATORICS. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS*
 2. [1.1] KOVACS, Istvan - KUTNAR, Klavdija - MARUSIC, Dragan - PELLICER, Daniel. *On even-closed regular embeddings of graphs. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 73, no., p. 153-169., Registrované v: WOS*
- ADEA05 DU, S. F. - KWAK, J. H. - NEDELA, Roman. Regular embeddings of complete multipartite graphs. In *European Journal of Combinatorics*, 2005, vol. 26, p. 505-519. ISSN 0195-6698.
- Citácie:
1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. *A Classification of Orientably Edge-Transitive Circular Embeddings of. In ANNALS OF COMBINATORICS. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS*
- ADEA06 DU, Shao-Fei - JONES, Gareth - KWAK, Jin Ho - NEDELA, Roman - ŠKOVIERA, Martin. Regular embeddings of $K_{n,K-n}$ where n is a power of 2. I: Metacyclic case. S.F. Du, G. Jones, J.H. Kwak, R. Nedela, M. Škoviera. In *European Journal of Combinatorics*, 2006, vol. 28, no. 6, s. 1595-1609. ISSN 0195-6698.

Citácie:

1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. A Classification of Orientably Edge-Transitive Circular Embeddings of. In ANNALS OF COMBINATORICS. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS

2. [1.1] KOVACS, Istvan - KUTNAR, Klavdija - MARUSIC, Dragan - PELLICER, Daniel. On even-closed regular embeddings of graphs. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 73, p. 153-169., Registrované v: WOS

ADEA07 DVUREČENSKIJ, Anatolij. On states on MV-algebras and their applications. In Journal of Logic and Computation, 2011, vol. 21, p. 407-427. (2010: 0.586 - IF). ISSN 0955-792X.

Citácie:

1. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS

ADEA08 DVUREČENSKIJ, Anatolij - KOWALSKI, Tomasz. Multipotent GBL-algebras. In Algebra Universalis, 2010, vol. 64, p. 25-38. (2009: 0.245 - IF). ISSN 0002-5240.

Citácie:

1. [1.1] LEDDA, Antonio - PAOLI, Francesco - TSINAKIS, Constantine. The Archimedean property: new horizons and perspectives. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 91., Registrované v: WOS

ADEA09 DVUREČENSKIJ, Anatolij - RACHUNEK, Jiri. Probabilistic averaging in bounded commutative residuated l-monoids. In Discrete Mathematics, 2006, vol. 306, no. 13, p. 1317-1326. ISSN 0012-365X.

Citácie:

1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS

2. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In A Course in BE-Algebras, 2018, p. 1-448., Registrované v: SCOPUS

ADEA10 FEČKAN, Michal. Existence of almost periodic solutions for jumping discontinuous systems. In Acta Mathematica Hungarica, 2000, vol. 86, no. 4, p. 291-303. ISSN 0236-5294.

Citácie:

1. [1.1] ANDRES, Jan - PENNEQUIN, Denis. Limit-periodic solutions of difference and differential systems without global lipschitzianity restrictions. In JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS. ISSN 1023-6198, 2018, vol. 24, no. 6, p. 955-975., Registrované v: WOS

ADEA11 FRIČ, Roman. Łukasiewicz tribes are absolutely sequentially closed bold algebras. In Czechoslovak Mathematical Journal, 2002, vol. 52, no. 4, s. 861-874. ISSN 0011-4642.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In Tatra Mountains Mathematical Publications. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADEA12 GUDDER, S. - PULMANNOVÁ, Sylvia. Quotients of partial abelian monoids. In Algebra Universalis, 1997, vol. 38, no. 4, s. 395-421. ISSN 0002-5240.

Citácie:

1. [1.1] JENCA, Gejza. *Effect Algebras as Presheaves on Finite Boolean Algebras*. In *ORDER-A JOURNAL ON THE THEORY OF ORDERED SETS AND ITS APPLICATIONS*. ISSN 0167-8094, 2018, vol. 35, no. 3, p. 525-540.,
Registrované v: WOS

2. [1.1] RAKHSHANI, M. R. - BORZOOEI, R. A. - REZAEI, G. R. *ON TOPOLOGICAL EFFECT ALGEBRAS*. In *ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS*. ISSN 1126-8042, 2018, vol., no. 39, p. 312-325.,
Registrované v: WOS

ADEA13 HEDLÍKOVÁ, Jarmila - PULMANNOVÁ, Sylvia. Orthogonality spaces and atomistic orthocomplemented lattices. In *Czechoslovak Mathematical Journal*. ISSN 0011-4642. Dostupné na internete: <<http://dml.cz/dmlcz/102428>>.

Citácie:

1. [1.1] KAWANO, Tomoaki. *Advanced Kripke Frame for Quantum Logic*. In *LOGIC, LANGUAGE, INFORMATION, AND COMPUTATION (WOLLIC 2018)*. ISSN 0302-9743, 2018, vol. 10944, no., p. 237-249.,
Registrované v: WOS

2. [1.1] ZHONG, Shengyang. *Correspondence Between Kripke Frames and Projective Geometries*. In *STUDIA LOGICA*. ISSN 0039-3215, 2018, vol. 106, no. 1, pp. 167-189.,
Registrované v: WOS

3. [1.1] ZHONG, Shengyang. *On the Modal Logic of the Non-orthogonality Relation Between Quantum States*. In *JOURNAL OF LOGIC LANGUAGE AND INFORMATION*. ISSN 0925-8531, 2018, vol. 27, no. 2, pp. 157-173.,
Registrované v: WOS

ADEA14 HORAK, P. - NEDELA, Roman - ROSA, A. The Hamilton–Waterloo problem: The case of Hamilton cycles and triangle-factors. In *Discrete Mathematics*, 2004, vol. 284, p. 181-188. ISSN 0012-365X.

Citácie:

1. [1.1] BURGESS, A. C. - DANZIGER, P. - TRAETTA, T. *On the Hamilton-Waterloo problem with odd cycle lengths*. In *JOURNAL OF COMBINATORIAL DESIGNS*. ISSN 1063-8539, 2018, vol. 26, no. 2, p. 51-83.,
Registrované v: WOS

2. [1.1] GIONFRIDDO, Mario - KUCUKCIFCI, Selda - MILICI, Salvatore - YAZICI, E. Sule. *UNIFORMLY RESOLVABLE (C-4, K-1,K-3)-DESIGNS OF INDEX 2*. In *CONTRIBUTIONS TO DISCRETE MATHEMATICS*. ISSN 1715-0868, 2018, vol. 13, no. 1, p. 23-34.,
Registrované v: WOS

3. [1.1] WANG, L. - LU, S. - CAO, H. *Further results on almost resolvable cycle systems and the Hamilton-Waterloo problem*. In *JOURNAL OF COMBINATORIAL DESIGNS*. ISSN 1063-8539, 2018, vol. 26, no. 1, p. 27-47.,
Registrované v: WOS

4. [1.2] WANG, L. - CAO, H. *A note on the Hamilton–Waterloo problem with $C<\inftyC<\infty>m. In *Discrete Mathematics*. ISSN 0012365X, 2018-01-01, 341, 1, p. 67-73.,
Registrované v: SCOPUS$*

ADEA15 JAKUBEC, Stanislav - MARKO, František. Witt equivalence classes of quartic number fields. In *Mathematics of Computation*, 1992, vol. 58, no. 197, p. 355-368. ISSN 0025-5718.

Citácie:

1. [1.1] KOPROWSKI, Przemysław - CZOGALA, Alfred. *Computing with quadratic forms over number fields*. In *JOURNAL OF SYMBOLIC COMPUTATION*. ISSN 0747-7171, 2018, vol. 89, no., pp. 129-145.,
Registrované v: WOS

- ADEA16 JAKUBEC, Stanislav - KOSTRA, Juraj - NEMOGA, Karol. On the existence of an integral normal basis generated by a unit in prime extensions of rational numbers. In *Mathematics of Computation*, 1991, vol. 56, no. 194, p. 809-815. ISSN 0025-5718.
Citácie:
1. [1.2] *NARKIEWICZ, Władysław. The story of algebraic numbers in the first half of the 20th century: From hilbert to Tate. In Springer Monographs in Mathematics. ISSN 14397382, 2018-01-01, pp. 1-443., Registrované v: SCOPUS*
- ADEA17 JAKUBEC, Stanislav - MARKO, František - SZYMICZEK, Kazimierz. Parity of class-numbers and Witt equivalence of quartic fields. In *Mathematics of Computation*, 1995, vol. 64, no. 212, p. 1711-1715. ISSN 0025-5718. Dostupné na internete:
<<http://www.ams.org/journals/mcom/1995-64-212/S0025-5718-1995-1308455-1/S0025-5718-1995-1308455-1.pdf>>.
Citácie:
1. [1.1] *KOPROWSKI, Przemysław - CZOGALA, Alfred. Computing with quadratic forms over number fields. In JOURNAL OF SYMBOLIC COMPUTATION. ISSN 0747-7171, 2018, vol. 89, no., pp. 129-145., Registrované v: WOS*
- ADEA18 JAKUBÍK, Ján. On product MV-algebras. In *Czechoslovak Mathematical Journal*, 2002, vol. 52, no. 4, p. 797-810. ISSN 0011-4642.
Citácie:
1. [1.1] *MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., Registrované v: WOS*
2. [1.1] *MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS*
3. [1.1] *MARKECHOVA, Dagmar - RIECAN, Beloslav. Renyi Entropy and Renyi Divergence in Product MV-Algebras. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 8, art. no. 587., Registrované v: WOS*
4. [1.1] *MARKECHOVA, Dagmar. Tsallis Entropy of Fuzzy Dynamical Systems. In MATHEMATICS. ISSN 2227-7390, 2018, vol. 6, no. 11, art. no. 264., Registrované v: WOS*
- ADEA19 JAKUBÍK, Ján. Projectability and weak homogeneity of pseudo effect algebras. In *Czechoslovak Mathematical Journal*, 2009, vol. 59, no. 1, p. 183-196. (2008: 0.210 - IF). ISSN 0011-4642.
Citácie:
1. [1.1] *AVALONE, Anna. An Aumann-Shapley type operator in Pseudo-D-lattices. In RICERCHÉ DI MATEMATICA. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 413-432., Registrované v: WOS*
- ADEA20 JAKUBÍK, Ján. On convexities of lattices. In *Czechoslovak Mathematical Journal*, 1992, vol. 42, no. 2, s. 325-330. ISSN 0011-4642.
Citácie:
1. [1.1] *CERNEGOVA, Miroslava - JAKUBIKOVA-STUDENOVSKA, Danica. The lattice of convexities of partial monounary algebras. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2018, vol. 79, no. 1, art. no. UNSP 10., Registrované v: WOS*

- ADEA21 JAKUBÍK, Ján - PRINGEROVÁ, G. Direct limits of cyclically ordered groups. In Czechoslovak Mathematical Journal, 1994, vol. 44, no. 2, p. 231-250. ISSN 0011-4642.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In MISKOLC MATHEMATICAL NOTES. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
- ADEA22 JAKUBÍKOVÁ-STUDENOVSKÁ, D. - PÓCS, Jozef. Cardinality of retracts of monounary algebras. In Czechoslovak Mathematical Journal, 2008, vol. 58, no. 2, p. 469-479. ISSN 0011-4642.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In MISKOLC MATHEMATICAL NOTES. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
- ADEA23 JONES, Gareth A. - NEDELA, Roman - ŠKOVIERA, Martin. Regular embeddings of $K_{n,n}$ where n is an odd prime power. In European Journal of Combinatorics, 2007, vol. 28, no. 6, p. 1863-1875. (2006: 0.710 - IF). ISSN 0195-6698.
Citácie:
1. [1.1] FAN, Wenwen - LI, Cai Heng - QU, Hai Peng. A Classification of Orientably Edge-Transitive Circular Embeddings of. In ANNALS OF COMBINATORICS. ISSN 0218-0006, 2018, vol. 22, no. 1, p. 135-146., Registrované v: WOS
2. [1.1] KOVACS, Istvan - KUTNAR, Klavdija - MARUSIC, Dragan - PELLICER, Daniel. On even-closed regular embeddings of graphs. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 73, p. 153-169., Registrované v: WOS
- ADEA24 KOCHOL, Martin. Three measures of edge-uncolorability. In Discrete Mathematics, 2011, vol. 311, p. 106-108. (2010: 0.536 - IF). ISSN 0012-365X.
Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
2. [1.1] ROLLOVA, Edita - SCHUBERT, Michael - STEFFEN, Eckhard. Flows in signed graphs with two negative edges. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 2, Registrované v: WOS
- ADEA25 KOCHOL, Martin. Tension-flow polynomials on graphs. In Discrete Mathematics, 2004, vol. 274, s. 173-185. ISSN 0012-365X.
Citácie:
1. [1.1] CHEN, Beifang. Orientations, lattice polytopes, and group arrangements III: Cartesian product arrangements and applications to Tutte type polynomials. In EUROPEAN JOURNAL OF COMBINATORICS. ISSN 0195-6698, 2018, vol. 71, no., p. 139-173., Registrované v: WOS
- ADEA26 KOCHOL, Martin. Superposition and constructions of graphs without nowhere-zero k -flows. In European Journal of Combinatorics, 2002, vol. 23, p. 281-306. ISSN 0195-6698.
Citácie:
1. [1.1] HAN, Miaomiao - LI, Jiaao - WU, Yezhou - ZHANG, Cun-Quan. Counterexamples to Jaeger's Circular Flow Conjecture. In JOURNAL OF COMBINATORIAL THEORY SERIES B. ISSN 0095-8956, 2018, vol. 131, no., p. 1-11., Registrované v: WOS

- ADEA27 KOCHOL, Martin. Construction of crossing-critical graphs. In *Discrete Mathematics*, 1987, vol. 66, s. 311-313. ISSN 0012-365X.
Citácie:
1. [1.1] *BOKAL, Drago - LEANOS, Jesus*. Characterizing all graphs with 2-exceptional edges. In *ARS MATHEMATICA CONTEMPORANEA*. ISSN 1855-3966, 2018, vol. 15, no. 2, p. 383-406., Registrované v: WOS
2. [1.1] *HLINENY, Petr - THOMASSEN, Carsten*. DECIDING PARITY OF GRAPH CROSSING NUMBER. In *SIAM JOURNAL ON DISCRETE MATHEMATICS*. ISSN 0895-4801, 2018, vol. 32, no. 3, p. 1962-1965., Registrované v: WOS
3. [1.2] *DVOŘÁK, Zdeněk - HLINĚNÝ, Petr - MOHAR, Bojan*. Structure and generation of crossing-critical graphs. In *Leibniz International Proceedings in Informatics, LIPIcs*. ISSN 18688969, 2018-06-01, 99, p. 331-3314., Registrované v: SCOPUS
4. [3.1] *SCHAEFER, M*. Crossing numbers of Graphs, In *Discrete Mathematics and its Applications*, ISBN: 9781498750493, CRC Press, Boca Raton, 2018.
- ADEA28 KORBAŠ, Július - SANKARAN, Parameswaran. On continuous maps between Grassmann manifolds. In *Proceedings of the Indian Academy of Sciences-Mathematical Sciences*, 1991, vol. 101, no. 2, s. 111-120. ISSN 0253-4142.
Citácie:
1. [2.1] *CHAKRABORTHY, Pratheep - MASUTI, Shreedevi K*. RATIONAL HOMOTOPY OF MAPS BETWEEN CERTAIN COMPLEX GRASSMANN MANIFOLDS. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 1, p. 181-196., Registrované v: WOS
- ADEA29 KORBAŠ, Július. The cup-length of the oriented Grassmannians vs a new bound for zero-cobordant manifolds. In *Bulletin of the Belgian Mathematical Society*, 2010, vol. 17, s. 69-81. (2009: 0.592 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1370-1444.
Citácie:
1. [1.1] *RUSIN, Tomas*. BOUNDS FOR THE CHARACTERISTIC RANK AND CUP-LENGTH OF ORIENTED GRASSMANN MANIFOLDS. In *ARCHIVUM MATHEMATICUM*. ISSN 1212-5059, 2018, vol. 54, no. 5, p. 313-329., Registrované v: WOS
- ADEA30 MARKO, František. On the existence of Minkowski units in totally real cyclic fields. In *J THEOR NOMBR BORDX*, 2005, vol. 17, p. 195-206. ISSN 1246-7405.
Citácie:
1. [1.2] *NARKIEWICZ, Władysław*. The story of algebraic numbers in the first half of the 20th century: From hilbert to Tate. In *Springer Monographs in Mathematics*. ISSN 14397382, 2018-01-01, pp. 1-443., Registrované v: SCOPUS
- ADEA31 MEDNYKH, A. - NEDELA, Roman. Enumeration of unrooted hypermaps of a given genus. In *Discrete Mathematics*, 2010, vol. 310, s. 518-526. (2009: 0.548 - IF). ISSN 0012-365X.
Citácie:
1. [1.1] *ZOGRAF, P. - KAZARIAN, M*. RATIONALITY IN MAP AND HYPERMAP ENUMERATION BY GENUS. In *ST PETERSBURG MATHEMATICAL JOURNAL*. ISSN 1061-0022, 2018, vol. 29, no. 3, p. 439-445., Registrované v: WOS
- ADEA32 MESJAROVÁ-ZEMÁNKOVÁ, Andrea. A note on two open problems of Alsina, Frank and Schweizer. In *Aequationes Mathematicae*, 2006, vol. 72, no. 1-2, p. 41-46. ISSN 0001-9054.

- Citácie:
- [1.1] ARIAS-GARCIA, J. J. - MESIAR, R. - KLEMENT, E. P. - SAMINGER-PLATZ, S. - DE BAETS, B. *Extremal Lipschitz continuous aggregation functions with a given diagonal section*. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 346, p. 147-167., Registrované v: WOS
- ADEA33 MIHÓK, Peter - SCHIERMEYER, I. Cycle lengths and chromatic number of graphs. In Discrete Mathematics, 2004, vol. 286, no. 1-2, p. 147-149. ISSN 0012-365X.
- Citácie:
- [1.1] COHEN, Nathann - HAVET, Frederic - LOCHET, William - NISSE, Nicolas. *Subdivisions of oriented cycles in digraphs with large chromatic number*. In JOURNAL OF GRAPH THEORY. ISSN 0364-9024, 2018, vol. 89, no. 4, p. 439-456., Registrované v: WOS
 - [1.1] LIU, Chun-Hung - MA, Jie. *Cycle lengths and minimum degree of graphs*. In JOURNAL OF COMBINATORIAL THEORY SERIES B. ISSN 0095-8956, 2018, vol. 128, p. 66-95., Registrované v: WOS
 - [1.1] SUDAKOV, Benny - VERSTRAETE, Jacques. *The extremal function for cycles of length $l \bmod k$* . In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2017, vol. 24, no. 1, art. no. P1.7., Registrované v: WOS
 - [1.2] BERLOV, S. L. - TYSCHUK, K. I. *On the Connection Between the Chromatic Number of a Graph and the Number of Cycles Covering a Vertex or an Edge*. In Journal of Mathematical Sciences (United States). ISSN 10723374, 2018, vol. 232, no. 1., Registrované v: SCOPUS
- ADEA34 STRAUCH, Oto - TÓTH, J.T. Distribution functions of ratio sequences. In Publicationes mathematicae, 2001, vol. 58, no. 4, p. 751-778. ISSN 0033-3883.
- Citácie:
- [1.1] BUKOR, Jozsef - CSIBA, Peter. *Best bounds for dispersion of ratio block sequences for certain subsets of integers*. In ANNALES MATHEMATICAE ET INFORMATICA. ISSN 1787-5021, 2018, vol. 49, p. 55-60., Registrované v: WOS
 - [1.1] TRYBA, Jacek. *Characterization of uniformly distributed sets and maximal density sets*. In JOURNAL OF NUMBER THEORY. ISSN 0022-314X, 2018, vol. 187, p. 453-468., Registrované v: WOS
- ADEA35 TELGÁRSKY, Rastislav. Spaces defined by topological games. In Fundamenta Mathematicae, 1975, vol. 88, p. 193-223. ISSN 0016-2736.
- Citácie:
- [1.1] TKACHUK, Vladimir V. *A nice subclass of functionally countable spaces*. In COMMENTATIONES MATHEMATICAE UNIVERSITATIS CAROLINAE. ISSN 0010-2628, 2018, vol. 59, no. 3, p. 399-409., Registrované v: WOS
 - [1.1] TKACHUK, Vladimir V. *Two point-picking games derived from a property of function spaces*. In QUAESTIONES MATHEMATICAE. ISSN 1607-3606, 2018, vol. 41, no. 6, p. 729-743., Registrované v: WOS
- ADEA36 TELGÁRSKY, Rastislav. C-scattered and paracompact spaces. In Fundamenta Mathematicae, 1971, vol. 73, p. 59-74. ISSN 0016-2736.
- Citácie:
- [1.1] AL GHOUR, S. *Theorems on Strong Paracompactness of Product Spaces*. In MATHEMATICAL NOTES. ISSN 0001-4346, 2018, vol. 103, no. 1-2, p. 54-58., Registrované v: WOS
 - [1.1] PENG, Liang-Xue - WANG, Li-Jun. *A study on monotonically metacompact and property (A) ((B))*. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2018, vol. 245, p. 1-20., Registrované v: WOS

ADEA37 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. On the new concept of solutions and existence results for impulsive fractional evolution equations. In *Dynamics of Partial Differential Equations*, 2011, vol. 8, no. 4, p. 345-361. (2010: 1.097 - IF). ISSN 1548-159X.

Citácie:

1. [1.1] CAPELAS DE OLIVEIRA, E. - SOUSA, J. Vanterler da C. *Ulam-Hyers-Rassias Stability for a Class of Fractional Integro-Differential Equations*. In *RESULTS IN MATHEMATICS*. ISSN 1422-6383, 2018, vol. 73, no. 3, art. no. 111., Registrované v: WOS
2. [1.1] CHADHA, Alka - BORA, S. N. - SAKTHIVEL, R. APPROXIMATE CONTROLLABILITY OF IMPULSIVE STOCHASTIC FRACTIONAL DIFFERENTIAL EQUATIONS WITH NONLOCAL CONDITIONS. In *DYNAMIC SYSTEMS AND APPLICATIONS*. ISSN 0378-3812, 2018, vol. 27, no. 1, p. 1-29., Registrované v: WOS
3. [1.1] CHADHA, Alka - BORA, Swaroop Nandan. Approximate Controllability of Impulsive Neutral Stochastic Differential Equations Driven by Poisson Jumps. In *JOURNAL OF DYNAMICAL AND CONTROL SYSTEMS*. ISSN 1079-2724, 2018, vol. 24, no. 1, p. 101-128., Registrované v: WOS
4. [1.1] CHADHA, Alka - BORA, Swaroop Nandan. Existence and exponential stability for neutral stochastic fractional differential equations with impulses driven by Poisson jumps. In *STOCHASTICS-AN INTERNATIONAL JOURNAL OF PROBABILITY AND STOCHASTIC PROCESSES*. ISSN 1744-2508, 2018, vol. 90, no. 5, p. 663-681., Registrované v: WOS
5. [1.1] CHAUDHARY, Renu - PANDEY, Dwijendra N. Existence and approximation of solution to stochastic fractional integro-differential equation with impulsive effects. In *COLLECTANEA MATHEMATICA*. ISSN 0010-0757, 2018, vol. 69, no. 2, p. 181-204., Registrované v: WOS
6. [1.1] CHAUDHARY, Renu - PANDEY, Dwijendra N. Monotone Iterative Technique for Impulsive Riemann-Liouville Fractional Differential Equations. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 9, p. 3381-3395., Registrované v: WOS
7. [1.1] FANG, Huiping - SONG, Mingzhu. Existence results for fractional order impulsive functional differential equations with multiple delays. In *ADVANCES IN DIFFERENCE EQUATIONS*. ISSN 1687-1847, 2018, art. no. 139., Registrované v: WOS
8. [1.1] FEN, Fatma Tokmak. ON THE SOLUTIONS OF A MULTI-POINT BVP FOR FRACTIONAL DIFFERENTIAL EQUATIONS WITH IMPULSES. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 2, p. 847-863., Registrované v: WOS
9. [1.1] GAO, Zhuoyan - YU, Xiulan. Existence results for BVP of a class of Hilfer fractional differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 217-233., Registrované v: WOS
10. [1.1] GAUTAM, Ganga Ram - DABAS, Jaydev. A study on existence of solutions for fractional functional differential equations. In *COLLECTANEA MATHEMATICA*. ISSN 0010-0757, 2018, vol. 69, no. 1, p. 25-37., Registrované v: WOS
11. [1.1] GOU, Haide - LI, Baolin. Existence of mild solutions for Sobolev-type Hilfer fractional evolution equations with boundary conditions. In *BOUNDARY VALUE PROBLEMS*. ISSN 1687-2770, 2018, art. no. 48., Registrované v: WOS

12. [1.1] GOU, Haide - LI, Baolin. Local and Global Existence of Mild Solution to Fractional Semilinear Impulsive Volterra Type Integro-Differential Equation. In SOUTHEAST ASIAN BULLETIN OF MATHEMATICS. ISSN 0129-2021, 2018, vol. 42, no. 4, p. 545-558., Registrované v: WOS
13. [1.1] GOU, Haide - LI, Baolin. Study on Sobolev type Hilfer fractional integro-differential equations with delay. In JOURNAL OF FIXED POINT THEORY AND APPLICATIONS. ISSN 1661-7738, 2018, vol. 20, no. 1, art. no. 44., Registrované v: WOS
14. [1.1] GOU, Haide - LI, Baolin. Study on the mild solution of Sobolev type Hilfer fractional evolution equations with boundary conditions. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, 2018, vol. 112, p. 168-179., Registrované v: WOS
15. [1.1] HEIDARKHANI, S. - CABADA, A. - AFROUZI, G. A. - MORADI, S. - CARISTI, G. A variational approach to perturbed impulsive fractional differential equations. In JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS. ISSN 0377-0427, 2018, vol. 341, p. 42-60., Registrované v: WOS
16. [1.1] WU, Guo-Cheng - BALEANU, Dumitru. STABILITY ANALYSIS OF IMPULSIVE FRACTIONAL DIFFERENCE EQUATIONS. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, 2018, vol. 21, no. 2, p. 354-375., Registrované v: WOS
17. [1.1] ZHANG, Xuping - LI, Yongxiang. Fractional Retarded Evolution Equations with Measure of Noncompactness Subjected to Mixed Nonlocal Plus Local Initial Conditions. In INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION. ISSN 1565-1339, 2018, vol. 19, no. 1, p. 69-81., Registrované v: WOS
18. [1.2] ALSARORI, Nawal A. - GHADLE, Kirtiwant P. On the mild solution for nonlocal impulsive fractional semilinear differential inclusion in banach spaces. In Journal of Mathematical Modeling. ISSN 2345394X, 2018, vol. 6, no. 2, p. 239-258., Registrované v: SCOPUS
19. [1.2] SUNDARA, Vadivoo B. - RAJA, R. - AGARWAL, R. P. - RAJCHAKIT, G. A novel controllability analysis of impulsive fractional linear time invariant systems with state delay and distributed delays in control. In Discontinuity, Nonlinearity, and Complexity. ISSN 21646376, 2018, vol. 7, no. 3, p. 275-290., Registrované v: SCOPUS

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 ANGELOVA, Nora - ATANASSOV, Krassimir T. - RIEČAN, Beloslav. Intercriteria analysis of the intuitionistic fuzzy implication properties. In Notes on Intuitionistic Fuzzy Sets, 2015, vol. 21, no. 5, p. 20-23. ISSN 1310-4926.
- Citácie:
1. [1.1] ATANASSOVA, Vassia. New Modified Level Operator N-gamma Over Intuitionistic Fuzzy Sets. In FLEXIBLE QUERY ANSWERING SYSTEMS, FQAS 2017. ISSN 0302-9743, 2017, vol. 10333, p. 209-214., Registrované v: WOS
 2. [1.1] ROEVA, Olympia - FIDANOVA, Stefka. Comparison of different metaheuristic algorithms based on InterCriteria analysis. In JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS. ISSN 0377-0427, 2018, vol. 340, p. 615-628., Registrované v: WOS
 3. [1.2] IKONOMOV, Nikolay - VASSILEV, Peter - ROEVA, Olympia. ICrAData Software for interCriteria analysis. In International Journal Bioautomation. ISSN 13141902, 2018, vol. 22, no. 1, p. 1-10., Registrované v: SCOPUS

- ADEB02 BALCAR, Bohuslav - SIMON, Petr - VOJTÁŠ, Peter. Refinement properties and extensions of filters in Boolean algebras. In Transactions of the American Mathematical Society, 1981, vol. 267, no. 1, p. 265-283. ISSN 0002-9947.
Citácie:
1. [1.1] FARKAS, Barnabas - KHOMSKII, Yurii - VIDNYANSZKY, Zoltan. Almost disjoint refinements and mixing reals. In FUNDAMENTA MATHEMATICAE. ISSN 0016-2736, 2018, vol. 242, no. 1, pp. 25-48., Registrované v: WOS
- ADEB03 BANDELT, H.J. - HEDLÍKOVÁ, Jarmila. Median algebras. In Discrete Mathematics, 1983, vol. 45, no. 1, p. 1-30. ISSN 0012-365X.
Citácie:
1. [1.1] BHATTACHARJEE, Debjyoti - AMARU, Luca - CHATTOPADHYAY, Anupam. Technology-Aware Logic Synthesis for ReRAM based In-Memory Computing. In PROCEEDINGS OF THE 2018 DESIGN, AUTOMATION & TEST IN EUROPE CONFERENCE & EXHIBITION (DATE). ISSN 1530-1591, 2018, vol., no., pp. 1435-1440., Registrované v: WOS
2. [1.1] BOWDITCH, Brian H. LARGE-SCALE RIGIDITY PROPERTIES OF THE MAPPING CLASS GROUPS. In PACIFIC JOURNAL OF MATHEMATICS. ISSN 0030-8730, 2018, vol. 293, no. 1, pp. 1-73., Registrované v: WOS
3. [1.1] COUCEIRO, Miguel - MELETIOU, Gerasimos C. On the number of essential arguments of homomorphisms between products of median algebras. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2018, vol. 79, no. 4, pp., Registrované v: WOS
4. [1.1] COUCEIRO, Miguel - TEHEUX, Bruno. Pivotal decomposition schemes inducing clones of operations. In BEITRAGE ZUR ALGEBRA UND GEOMETRIE-CONTRIBUTIONS TO ALGEBRA AND GEOMETRY. ISSN 0138-4821, 2018, vol. 59, no. 1, pp. 25-40., Registrované v: WOS
5. [1.1] CZELAKOWSKI, Janusz. Possible classification of finite-dimensional compact Hausdorff topological algebras. In DON PIGOZZI ON ABSTRACT ALGEBRAIC LOGIC, UNIVERSAL ALGEBRA, AND COMPUTER SCIENCE. ISSN 2211-2766, 2018, vol. 16, no., pp. 381-420., Registrované v: WOS
6. [1.1] ZEDAM, Lemnaouar - BARKAT, Omar - DE BAETS, Bernard. Traces of ternary relations. In INTERNATIONAL JOURNAL OF GENERAL SYSTEMS. ISSN 0308-1079, 2018, vol. 47, no. 4, pp. 350-373., Registrované v: WOS
7. [1.2] GÉLY, Alain - COUCEIRO, Miguel - NAPOLI, Amedeo. Steps towards achieving distributivity in formal concept analysis. In CEUR Workshop Proceedings. ISSN 16130073, 2018-01-01, 2123, pp. 105-116., Registrované v: SCOPUS
8. [1.2] GÉLY, Alain - COUCEIRO, Miguel - NAPOLI, Amedeo. Steps towards achieving distributivity in formal concept analysis. In International Conference on Concept Lattices and Their Applications. ISSN 2311701X, 2018-01-01, cLA2018, pp. 105-116., Registrované v: SCOPUS
- ADEB04 BEČKA, Martin - VAJTERŠIC, Marián. Block-Jacobi SVD algorithms for distributed memory systems I : hypercubes and rings. In Parallel Algorithms and Applications, 1999, vol. 13, p. 265-287. ISSN 1063-7192.
Citácie:
1. [1.1] BOUKARAM, Wajih Halim - TURKIYYAH, George - LTAIEF, Hatem - KEYES, David E. Batched QR and SVD algorithms on GPUs with applications in hierarchical matrix compression. In PARALLEL COMPUTING. ISSN 0167-8191, 2018, vol. 74, no., p. 19-33., Registrované v: WOS

2. [1.1] DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, p. 808-865., Registrované v: WOS
 3. [1.1] XIAO, Peng - WANG, Zigeng - RAJASEKARAN, Sanguthevar. Novel Speedup Techniques for Parallel Singular Value Decomposition. In IEEE 20TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS / IEEE 16TH INTERNATIONAL CONFERENCE ON SMART CITY / IEEE 4TH INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS), 2018, vol., no., p. 188-195., Registrované v: WOS
- ADEB05 BEČKA, Martin - VAJTERŠIĆ, Marián. Block-Jacobi SVD algorithms for distributed memory systems II : meshes. In Parallel Algorithms and Applications, 1999, vol. 14, p. 37-56. ISSN 1063-7192.
Citácie:
 1. [1.1] DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, p. 808-865., Registrované v: WOS
 2. [1.1] XIAO, Peng - WANG, Zigeng - RAJASEKARAN, Sanguthevar. Novel Speedup Techniques for Parallel Singular Value Decomposition. In IEEE 20TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS / IEEE 16TH INTERNATIONAL CONFERENCE ON SMART CITY / IEEE 4TH INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS), 2018, vol., no., p. 188-195., Registrované v: WOS
- ADEB06 BOROWIECKI, M. - KEMNITZ, A. - MARANGIO, M. - MIHÓK, Peter. Generalized total colorings of graphs. M. Borowiecki, A. Kemnitz, M. Marangio, P. Mihók. In Discussiones Mathematicae Graph Theory, 2011, vol. 31, p. 209-222. ISSN 1234-3099.
Citácie:
 1. [1.1] BROERE, Izak - SEMANISIN, Gabriel. Some bounds on the generalised total chromatic number of degenerate graphs. In INFORMATION PROCESSING LETTERS. ISSN 0020-0190, 2017, vol. 122, p. 30-33., Registrované v: WOS
- ADEB07 BORSÍK, Ján - DOBOŠ, Jozef. On metric preserving functions. In Real Analysis Exchange, 1987/88, vol. 13, p. 285-294. ISSN 0147-1937.
Citácie:
 1. [2.1] KHEMARATCHATAKUMTHORN, Tammatada - PONGSRIIAM, Prapanpong. REMARKS ON b-METRIC AND METRIC-PRESERVING FUNCTIONS. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 5, p. 1009-1016., Registrované v: WOS
- ADEB08 BORSÍK, Ján. Points of continuity, quasicontinuity and cliquishness. In Rendiconti dell'Istituto di Matematica dell'Università di Trieste, 1994, vol. 26, p. 5-20. ISSN 0049-4704.
Citácie:
 1. [1.1] HOLA, L'ubica - HOLY, Dusan. Metrizable of the space of quasicontinuous functions. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2018, vol. 246, p. 137-143., Registrované v: WOS

- ADEB09 BROERE, Izak - HAJNAL, Péter - MIHÓK, Peter. Partition problems and kernels of graphs. In *Discussiones Mathematicae Graph Theory*, 1997, vol. 17, p. 311-313. ISSN 1234-3099.
Citácie:
1. [1.1] GLEBOV, Aleksey Nikolaevich - ZHAMYANOVNA, Zambalaeva Dolgor. *PATH PARTITIONING PLANAR GRAPHS OF GIRTH 4 WITHOUT ADJACENT SHORT CYCLES*. In *SIBERIAN ELECTRONIC MATHEMATICAL REPORTS-SIBIRSKIE ELEKTRONNYE MATEMATICHESKIE IZVESTIYA*. ISSN 1813-3304, 2018, vol. 15, no., pp. 1040-1047., Registrované v: WOS
- ADEB10 BUKOVSKÝ, L. - KHOLSHCHEVNIKOVA, N.N. - REPICKÝ, Miroslav. Thin sets of harmonic analysis and infinite combinatorics. In *Real Analysis Exchange*, 1994/95, vol. 20, no. 2, p. 454-509. ISSN 0147-1937.
Citácie:
1. [1.1] DI SANTO, Raffaele - DIKRANJAN, Dikran - BRUNO, Anna Giordano. *Characterized subgroups of the circle group*. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, pp. 625-655., Registrované v: WOS
- ADEB11 CALAMONERI, T. - MASSINI, A. - TÖRÖK, Ľubomír - VRŤO, Imrich. Antibandwidth of Complete k-ary trees. In *Electronic Notes in Discrete Mathematics*, 2006, vol. 24, p. 259-266. ISSN 1571-0653.
Citácie:
1. [1.1] BEKOS, Michael A. - KAUFMANN, Michael - KOBOUROV, Stephen G. - STAVROPOULOS, Konstantinos - VEERAMONI, Sankar. *The maximum k-differential coloring problem*. In *JOURNAL OF DISCRETE ALGORITHMS*. ISSN 1570-8667, 2017, vol. 45, p. 35-53., Registrované v: WOS
- ADEB12 DANČÍK, Vladimír - ADDONA, T.A. - CLAUSER, K.R. - VATH, J.E. - PEVZNER, P.A. De novo peptide sequencing via tandem mass spectrometry. In *Journal of Computational Biology*, 1999, vol. 6, no. 3-4, p. 327-342. ISSN 1066-5277.
Citácie:
1. [1.1] AWAN, Muaaz Gul - ESLAMI, Taban - SAEED, Fahad. *GPU-DAEMON: GPU algorithm design, data management & optimization template for array based big omics data*. In *COMPUTERS IN BIOLOGY AND MEDICINE*. ISSN 0010-4825, 2018, vol. 101, p. 163-173., Registrované v: WOS
2. [1.1] DAMASO, J. C. G. - GUIMARAES, S. - DE LIMA, B. S. L. P. *Peptide Sequencing in Graphs for Multiplex Mass Spectra*. In *IEEE LATIN AMERICA TRANSACTIONS*. ISSN 1548-0992, 2018, vol. 16, no. 4, p. 1269-1275., Registrované v: WOS
3. [1.1] DUAN, Jiana - AMSTER, I. Jonathan. *An Automated, High-Throughput Method for Interpreting the Tandem Mass Spectra of Glycosaminoglycans*. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2018, vol. 29, no. 9, p. 1802-1811., Registrované v: WOS
4. [1.1] FRANK, Yves - HRUZ, Tomas - TSCHAGER, Thomas - VENZIN, Valentin. *Improved de novo peptide sequencing using LC retention time information*. In *ALGORITHMS FOR MOLECULAR BIOLOGY*. ISSN 1748-7188, 2018, vol. 13, art. no. 14., Registrované v: WOS
5. [1.1] GLOWACKI, Tomasz - KOZAK, Adam - FORMANOWICZ, Piotr. *Dedicated Heuristic for Peptide Assembly Problem*. In *CURRENT BIOINFORMATICS*. ISSN 1574-8936, 2018, vol. 13, no. 2, p. 120-126., Registrované v: WOS

6. [1.1] GUAN, Xiaoyan - BROWNSTEIN, Naomi C. - YOUNG, Nicolas L. - MARSHALL, Alan G. Ultrahigh-resolution Fourier transform ion cyclotron resonance mass spectrometry and tandem mass spectrometry for peptide de novo amino acid sequencing for a seven-protein mixture by paired single-residue transposed Lys-N and Lys-C digestion. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2017, vol. 31, no. 2, p. 207-217., Registrované v: WOS
 7. [1.1] HE, Lidong - WEISBROD, Chad R. - MARSHALL, Alan G. Protein &ITde novo&IT sequencing by top-down and middle-down MS/MS: Limitations imposed by mass measurement accuracy and gaps in sequence coverage. In INTERNATIONAL JOURNAL OF MASS SPECTROMETRY. ISSN 1387-3806, 2018, vol. 427, p. 107-113., Registrované v: WOS
 8. [1.1] KUMAR, Dharendra - YADAV, Amit Kumar - DASH, Debasis. Choosing an Optimal Database for Protein Identification from Tandem Mass Spectrometry Data. In PROTEOME BIOINFORMATICS. ISSN 1064-3745, 2017, vol. 1549, p. 17-29., Registrované v: WOS
 9. [1.1] MUTH, Thilo - HARTKOPF, Felix - VAUDEL, Marc - RENARD, Bernhard Y. A Potential Golden Age to ComeCurrent Tools, Recent Use Cases, and Future Avenues for De Novo Sequencing in Proteomics. In PROTEOMICS. ISSN 1615-9853, 2018, vol. 18, no. 18, art. no. UNSP 1700150., Registrované v: WOS
 10. [1.1] MUTH, Thilo - RENARD, Bernhard Y. Evaluating de novo sequencing in proteomics: already an accurate alternative to database-driven peptide identification? In BRIEFINGS IN BIOINFORMATICS. ISSN 1467-5463, 2018, vol. 19, no. 5, p. 954-970., Registrované v: WOS
 11. [1.1] NGOC HIEU TRAN - ZHANG, Xianglilan - LI, Ming. Deep Omics. In PROTEOMICS. ISSN 1615-9853, 2018, vol. 18, no. 2, art. no. 1700319., Registrované v: WOS
 12. [1.1] VAN AGTHOVEN, Maria A. - LYNCH, Alice M. - MORAN, Tomos E. - WOOTTON, Christopher A. - LAM, Yuko P. Y. - CHIRON, Lionel - BARROW, Mark P. - DELSUC, Marc-Andre - O';CONNOR, Peter B. Can Two-Dimensional IR-ECD Mass Spectrometry Improve Peptide de Novo Sequencing? In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2018, vol. 90, no. 5, p. 3496-3504., Registrované v: WOS
 13. [1.1] YANG, Hao - CHI, Hao - ZHOU, Wen-Jing - ZENG, Wen-Feng - LIU, Chao - WANG, Rui-Min - WANG, Zhao-Wei - NIU, Xiu-Nan - CHEN, Zhen-Lin - HE, Si-Min. pSite: Amino Acid Confidence Evaluation for Quality Control of De Novo Peptide Sequencing and Modification Site Localization. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2018, vol. 17, no. 1, p. 119-128., Registrované v: WOS
 14. [1.2] FRANK, Yves - HRUZ, Tomas - TSCHAGER, Thomas - VENZIN, Valentin. Improved de novo peptide sequencing using LC retention time information. In Leibniz International Proceedings in Informatics, LIPIcs. ISSN 18688969, 2017, vol. 88, art. no. 26., Registrované v: SCOPUS
 15. [1.2] MA, Bin. Chapter 2: De novo Peptide Sequencing. In New Developments in Mass Spectrometry, 2017, p. 17-38., Registrované v: SCOPUS
- ADEB13 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij. Product MV-algebras. In Multiple-Valued Logic, 2001, vol. 6, p. 193-215. ISSN 1023-6627.

Citácie:

1. [1.1] BANIVAHEB, H. - SAEID, A. Borumand. Localization of PMV-algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 1, p. 31-40., Registrované v: WOS

2. [1.1] GORAGHANI, S. Saidi - BORZOOEI, R. A. Decomposition of A-ideals in MV-modules. In ANNALS OF THE UNIVERSITY OF CRAIOVA-MATHEMATICS AND COMPUTER SCIENCE SERIES. ISSN 1223-6934, 2018, vol. 45, no. 1, p. 66-77., Registrované v: WOS
 3. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 2, art. no. 129., Registrované v: WOS
 4. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In ENTROPY. ISSN 1099-4300, 2018, vol. 20, no. 4, art. no. 272., Registrované v: WOS
 5. [1.1] MARKECHOVA, Dagmar. Tsallis Entropy of Fuzzy Dynamical Systems. In MATHEMATICS. ISSN 2227-7390, 2018, vol. 6, no. 11, art. no. 264., Registrované v: WOS
 6. [1.1] SERGIOLI, G. - FREYTES, H. Fuzzy approach to quantum Fredkin gate. In JOURNAL OF LOGIC AND COMPUTATION. ISSN 0955-792X, 2018, vol. 28, no. 1, p. 245-263., Registrované v: WOS
- ADEB14 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij - JAKUBÍK, Ján. Good and bad infinitesimals, and states on pseudo MV-algebras. In ORDER, 2004, vol. 21, p. 293-314. ISSN 0167-8094.
Citácie:
1. [1.1] KROUPA, Tomas. Ordered group-valued probability, positive operators, and integral representations. In ALGEBRA UNIVERSALIS. ISSN 0002-5240, 2018, vol. 79, no. 4, art. no. 86., Registrované v: WOS
- ADEB15 DJIDJEV, H. - VRTO, Imrich. Crossing numbers and cutwidths. In Journal of Graph Algorithms and Applications, 2003, vol. 7, no. 3, p. 245-251. ISSN 1526-1719.
Citácie:
1. [1.1] DUJMOVIC, Vida - JORET, Gwenael - MORIN, Pat - NORIN, Sergey - WOOD, David R. ORTHOGONAL TREE DECOMPOSITIONS OF GRAPHS. In SIAM JOURNAL ON DISCRETE MATHEMATICS. ISSN 0895-4801, 2018, vol. 32, no. 2, p. 839-863., Registrované v: WOS
- ADEB16 DOBRAKOV, Ivan. On submeasures I. In Dissertationes Mathematicae, 1974, vol. 112, p. 1-35. ISSN 0012-3862.
Citácie:
1. [1.1] BOCCUTO, Antonio - DIMITRIOU, Xenofon. Equivalence Between Limit Theorems for Lattice Group-Valued k-Triangular Set Functions. In MEDITERRANEAN JOURNAL OF MATHEMATICS. ISSN 1660-5446, 2018, vol. 15, no. 4, art. no. 174., Registrované v: WOS
 2. [1.1] OUYANG, Yao - LI, Jun - MESIAR, Radko. Decision Making Based on Optimal Measures under Intuitionistic Fuzzy Environment. In 2018 IEEE INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS (FUZZ-IEEE). ISSN 1098-7584, 2018., Registrované v: WOS
- ADEB17 ĐURIŠ, Pavol - GALIL, Z. - SCHNITGER, G. Lower bounds on communication complexity. In Information and Computation, 1987, vol. 73, no. 1, p. 1-22. ISSN 0890-5401.
Citácie:
1. [1.1] BALKANSKI, Eric - BREUER, Adam - SINGER, Yaron. Non-monotone Submodular Maximization in Exponentially Fewer Iterations. In ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS 31 (NIPS 2018). ISSN 1049-5258, 2018, vol. 31, no., pp., Registrované v: WOS

2. [1.1] BALKANSKI, Eric - SINGER, Yaron. *The Adaptive Complexity of Maximizing a Submodular Function*. In *STOC'18: PROCEEDINGS OF THE 50TH ANNUAL ACM SIGACT SYMPOSIUM ON THEORY OF COMPUTING*. ISSN 0737-8017, 2018, vol., no., pp. 1138-1151., Registrované v: WOS
- ADEB18 DVUREČENSKIJ, Anatolij - HYČKO, Marek. On the existence of states for linear pseudo BL-algebras. In *Atti del Seminario Matematico e Fisico dell'Università di Modena*, 2005, vol. 53, p. 93-110. ISSN 1825-1269.
- Citácie:
1. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. *EQ-algebras with internal states*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
- ADEB19 DVUREČENSKIJ, Anatolij. Measures and states on BCK-algebras. In *Atti del Seminario Matematico e Fisico dell'Università di Modena e Reggio Emilia*, 1999, vol. 47, p. 511-528. ISSN 0041-8986.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
2. [1.2] MUKKAMALA, Sambasiva Rao. *A course in BE-algebras*. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADEB20 DVUREČENSKIJ, Anatolij. States on pseudo MV-algebras. In *Studia Logica*, 2001, vol. 68, p. 301-327.
- Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
2. [1.1] RACHUNEK, Jiri - SALOUNOVA, Dana. *Derivations on algebras of a non-commutative generalization of the Lukasiewicz logic*. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 333, p. 11-16., Registrované v: WOS
3. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. *EQ-algebras with internal states*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
4. [1.1] ZHANG, Huarong - LUO, Minxia. *The generalized Bosbach states on EQ-algebras*. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
5. [1.2] JUN, Young Bae - SONG, Seok Zun - BORDBAR, Hashem. *Int-soft ideals of pseudo MV-algebras*. In *Bulletin of the Section of Logic*. ISSN 01380680, 2018, vol. 47, no. 1, p. 1-15., Registrované v: SCOPUS
6. [3.1] IORGULESCU, A. *"Implicative-groups vs. groups and generalizations"*. Bucharest: Matrix Rom, 2018. ISBN 978-606-25-0394-9, 735 p.
- ADEB21 ELIAŠ, Peter. On inclusions between Arbault sets. In *Acta Universitatis Carolinae*, 2003, vol. 44, p. 65-72. ISSN 0001-7140.
- Citácie:
1. [1.1] DI SANTO, Raffaele - DIKRANJAN, Dikran - BRUNO, Anna Giordano. *Characterized subgroups of the circle group*. In *RICERCHE DI MATEMATICA*. ISSN 0035-5038, 2018, vol. 67, no. 2, p. 625-655., Registrované v: WOS
- ADEB22 FEČKAN, Michal - POSPÍŠIL, Michal. On the bifurcation of periodic orbits in discontinuous systems. In *Communications in Mathematical Analysis*, 2010, vol. 8, no. 1, p. 87-108.

- Citácie:
- [1.1] CHEN, Shuang. *Stability and Perturbations of Generalized Heteroclinic Loops in Piecewise Smooth Systems*. In *QUALITATIVE THEORY OF DYNAMICAL SYSTEMS*. ISSN 1575-5460, 2018, vol. 17, no. 3, pp. 563-581., Registrované v: WOS
- ADEB23 FRIČ, Roman - PAPČO, Martin. A Categorical approach to probability theory. In *Studia Logica*, 2010, vol. 94, s. 215-230. ISSN 0039-3215.
- Citácie:
- [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, pp. 1-15., Registrované v: SCOPUS
- ADEB24 GRENDÁR, Marián. Entropy and effective support size. In *Entropy*, 2006, vol. 8, no. 3, p. 169-174. ISSN 1099-4300.
- Citácie:
- [1.1] ENRIQUEZ, Marco - DELGADO, Francisco - ZYCZKOWSKI, Karol. *Entanglement of Three-Qubit Random Pure States*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 10, art. no. 745., Registrované v: WOS
 - [1.1] FOSTER, David H. *The Verriest Lecture: Color vision in an uncertain world*. In *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION*. ISSN 1084-7529, 2018, vol. 35, no. 4, p. B192-B201., Registrované v: WOS
- ADEB25 GULDAN, Filip - TOMASTA, Pavol. New lower bounds of some diagonal Ramsey numbers. In *Journal of graph theory*, 1983, vol. 7, no. 1, p. 149-151. ISSN 0364-9024.
- Citácie:
- [1.1] BATAINEH, Mohammad S. - VETRIK, Tomas - JARADAT, Mohammed M. M. - RABAIHA, Ayat M. M. *The Ramsey number for two graphs of order 5*. In *JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY*. ISSN 0972-0529, 2018, vol. 21, no. 7-8, pp. 1523-1528., Registrované v: WOS
 - [1.1] DALFO, Cristina - FIOL, Miquel Angel. *Graphs, friends and acquaintances*. In *ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS*. ISSN 2338-2287, 2018, vol. 6, no. 2, pp. 282-305., Registrované v: WOS
 - [1.1] MADDUX, Roger D. *Subcompletions of representable relation algebras*. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 2, pp., Registrované v: WOS
 - [1.1] WU, Haibo - MAGNANT, Colton. *Gallai-Ramsey Numbers for Monochromatic Triangles or 4-Cycles*. In *GRAPHS AND COMBINATORICS*. ISSN 0911-0119, 2018, vol. 34, no. 6, pp. 1315-1324., Registrované v: WOS
 - [1.1] XU, X - LIANG, M - LUO, H. *Ramsey Theory: Unsolved Problems and Results*. In *RAMSEY THEORY: UNSOLVED PROBLEMS AND RESULTS*, 2018, vol., no., pp. 1-178., Registrované v: WOS
- ADEB26 HE, Hongmei - SALAGEAN, Ana - MÄKINEN, Erkki - VRŤO, Imrich. Various heuristic algorithms to minimise the two-page crossing numbers of graphs. In *Open Computer Science*, 2015, vol. 5, no. 1, p. 22-40. ISSN 2299-1093.
- Citácie:
- [1.2] KLAWITTER, Jonathan - MCHEDLIDZE, Tamara - NÖLLENBURG, Martin. *Experimental evaluation of book drawing algorithms*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, 10692 LNCS, p. 224-238., Registrované v: SCOPUS

2. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- ADEB27 HONGMEI, HE - SYKORA, O. - VRŤO, Imrich. Crossing minimisation heuristics for 2-page drawings. In *Electronic Notes in Discrete Mathematics*, 2005, vol. 22, p. 527-534. ISSN 1571-0653.
- Citácie:
1. [1.1] BINUCCI, Carla - DI GIACOMO, Emilio - HOSSAIN, Md. Iqbal - LIOTTA, Giuseppe. 1-page and 2-page drawings with bounded number of crossings per edge. In *EUROPEAN JOURNAL OF COMBINATORICS*. ISSN 0195-6698, 2018, vol. 68, p. 24-37., Registrované v: WOS
2. [1.2] KLAWITTER, Jonathan - MCHEDLIDZE, Tamara - NÖLLENBURG, Martin. Experimental evaluation of book drawing algorithms. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 10692 LNCS, p. 224-238., Registrované v: SCOPUS
- ADEB28 JAKUBÍK, Ján - PRINGEROVÁ, G. Representations of cyclically ordered groups. In *Časopis pro pěstování matematiky*, 1988, vol. 113, s. 184-196. ISSN 0862-7959.
- Citácie:
1. [1.1] CLAY, Adam - MAIM, Kathryn - RIVAS, Cristobal. On the number of circular orders on a group. In *JOURNAL OF ALGEBRA*. ISSN 0021-8693, 2018, vol. 504, p. 336-363., Registrované v: WOS
2. [1.1] GIRAUDET, M. - LELOUP, G. - LUCAS, F. First order theory of cyclically ordered groups. In *ANNALS OF PURE AND APPLIED LOGIC*. ISSN 0168-0072, 2018, vol. 169, no. 9, p. 896-927., Registrované v: WOS
3. [1.1] MANN, Kathryn - RIVAS, Cristobal. GROUP ORDERINGS, DYNAMICS, AND RIGIDITY. In *ANNALES DE L INSTITUT FOURIER*. ISSN 0373-0956, 2018, vol. 68, no. 4, p. 1399-1445., Registrované v: WOS
- ADEB29 JENČA, G. - PULMANNOVÁ, Sylvia. Ideals and quotients in lattice ordered effect algebras. In *Soft Computing*, 2001, vol. 5, no. 5, p. 376-380. ISSN 1432-7643.
- Citácie:
1. [1.1] RAKHSHANI, M. R. - BORZOOEI, R. A. - REZAEI, G. R. ON TOPOLOGICAL EFFECT ALGEBRAS. In *ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS*. ISSN 1126-8042, 2018, vol., no. 39, p. 312-325., Registrované v: WOS
- ADEB30 JENČOVÁ, Anna - PETZ, D. Sufficiency in quantum statistical inference. A survey with examples. In *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, 2006, vol. 9, p. 331-351. ISSN 0219-0257.
- Citácie:
1. [1.1] BUTUCEA, Cristina - GUTA, Madalin - NUSSBAUM, Michael. LOCAL ASYMPTOTIC EQUIVALENCE OF PURE STATES ENSEMBLES AND QUANTUM GAUSSIAN WHITE NOISE. In *ANNALS OF STATISTICS*. ISSN 0090-5364, 2018, vol. 46, no. 6B, pp. 3676-3706., Registrované v: WOS
2. [1.1] JUNGE, Marius - RENNER, Renato - SUTTER, David - WILDE, Mark M. - WINTER, Andreas. Universal Recovery Maps and Approximate Sufficiency of Quantum Relative Entropy. In *ANNALES HENRI POINCARÉ*. ISSN 1424-0637, 2018, vol. 19, no. 10, pp. 2955-2978., Registrované v: WOS
3. [1.2] HARREMOËS, Peter. Entropy on spin factors. In *Springer Proceedings in Mathematics and Statistics*. ISSN 21941009, 2018-01-01, 252, pp. 247-278., Registrované v: SCOPUS

- ADEB31 JUDAH, H. - REPICKÝ, Miroslav. No random reals in countable support iterations. In Israel Journal of Mathematics, 1995, vol. 92, s. 349-359. ISSN 0021-2172.
Citácie:
1. [1.1] SPINES, Otmar. No Tukey reduction of Lebesgue null to Silver null sets. In JOURNAL OF MATHEMATICAL LOGIC. ISSN 0219-0613, 2018, vol. 18, no. 2, pp., Registrované v: WOS
- ADEB32 KOCHOL, Martin. Linear jump of crossing number for non kuratowski edge of a graph. In Radovi Matematički, 1991, vol. 7, p. 177-184. ISSN 0352-6100.
Citácie:
1. [1.1] BOKAL, Drago - LEANOS, Jesus. Characterizing all graphs with 2-exceptional edges. In ARS MATHEMATICA CONTEMPORANEA. ISSN 1855-3966, 2018, vol. 15, no. 2, p. 383-406., Registrované v: WOS
2. [3.1] SCHAEFER, M. Crossing numbers of graphs, In Discrete Mathematics and its Applications, ISBN 9781498750493, CRC Press, Boca Raton, 2018.
- ADEB33 LAHTI, Pekka - PULMANNOVÁ, Sylvia. Coexistent observables and effects in quantum mechanics. In Reports on Mathematical Physics, 1997, vol. 39, no. 3, p. 339-351. ISSN 0034-4877.
Citácie:
1. [1.1] CARMELI, Claudio - HEINOSAARI, Teiko - TOIGO, Alessandro. State discrimination with postmeasurement information and incompatibility of quantum measurements. In PHYSICAL REVIEW A. ISSN 2469-9926, 2018, vol. 98, no. 1, art.nr. 12126., Registrované v: WOS
2. [1.1] HAAPASALO, Erkka - HEINOSAARI, Teiko - MIYADERA, Takayuki. The unavoidable information flow to environment in quantum measurements. In JOURNAL OF MATHEMATICAL PHYSICS. ISSN 0022-2488, 2018, vol. 59, no. 8, art. nr. 82106., Registrované v: WOS
- ADEB34 LAŠŠÁK, Miroslav - PORUBSKÝ, Štefan. Fermat-Euler theorem in algebraic number fields. In Journal of Number Theory, 1996, vol. 60, no. 2, p. 254-290. ISSN 0022-314X.
Citácie:
1. [1.1] BERTOK, Csanad - HAJDU, Lajos. A Hasse-type principle for exponential Diophantine equations over number fields and its applications. In MONATSHEFTE FÜR MATHEMATIK. ISSN 0026-9255, 2018, vol. 187, no. 3, pp. 425-436., Registrované v: WOS
- ADEB35 LIHOVÁ, Judita. On convexities of lattices. In Publicationes Mathematicae Debrecen, 2008, vol. 72, no. 1-2, p. 35-43. ISSN 0033-3883.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In MISKOLC MATHEMATICAL NOTES. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
- ADEB36 MAJERNÍK, Vladimír - CHARVOT, R. - MAJERNÍKOVÁ, Eva. The momentum entropy of the infinite potential well. In Journal of Physics A, 1999, vol. 32, no. 11, p. 2207-2216. ISSN 0305-4470.
Citácie:
1. [1.1] MUNJAL, D. - SEN, K. D. - PRASAD, V. Shape effect on information theoretic measures of quantum heterostructures. In JOURNAL OF PHYSICS COMMUNICATIONS. ISSN 2399-6528, 2018, vol. 2, no. 2, UNSP 025002., Registrované v: WOS

2. [1.1] NASCIMENTO, Wallas S. - PRUDENTE, Frederico V. Shannon entropy: A study of confined hydrogenic-like atoms. In *CHEMICAL PHYSICS LETTERS*. ISSN 0009-2614, 2018, vol. 691, pp. 401-407., Registrované v: WOS
 3. [1.1] OLENDSKI, Oleg. Quantum Information Measures of the One-Dimensional Robin Quantum Well. In *ANNALEN DER PHYSIK*. ISSN 0003-3804, 2018, vol. 530, no. 8, 1700324., Registrované v: WOS
- ADEB37 MESiarová-ZEMÁNKOVÁ, Andrea. The structure of n-contractive t-norms. In *International Journal of General Systems*, 2005, vol. 34, p. 625-637. ISSN 0308-1079.
Citácie:
1. [1.1] CAYLI, Gul Deniz. A characterization of uninorms on bounded lattices by means of triangular norms and triangular conorms. In *INTERNATIONAL JOURNAL OF GENERAL SYSTEMS*. ISSN 0308-1079, 2018, vol. 47, no. 8, p. 772-793., Registrované v: WOS
- ADEB38 MESiarová-ZEMÁNKOVÁ, Andrea. Extremal k-lipschitz t-conorms. In *International Journal of uncertainty fuzziness and knowledge-based systems*, 2006, vol. 14, no. 3, p. 247-257.
Citácie:
1. [1.1] ARIAS-GARCIA, J. J. - MESIAR, R. - KLEMENT, E. P. - SAMINGER-PLATZ, S. - DE BAETS, B. Extremal Lipschitz continuous aggregation functions with a given diagonal section. In *FUZZY SETS AND SYSTEMS*. ISSN 0165-0114, 2018, vol. 346, p. 147-167., Registrované v: WOS
2. [1.1] HONDA, Aoi - JAMES, Simon. Averaging Aggregation Functions Based on Inclusion-Exclusion Integrals. In *2017 JOINT 17TH WORLD CONGRESS OF INTERNATIONAL FUZZY SYSTEMS ASSOCIATION AND 9TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND INTELLIGENT SYSTEMS (IFSAS-SCIS)*, 2017., Registrované v: WOS
- ADEB39 MIHÓK, Peter - ORAVCOVÁ, J. - SOTÁK, R. Generalized circular colouring of graphs. In *Discussiones Mathematicae Graph Theory*, 2011, vol. 31, p. 345-356. ISSN 1234-3099.
Citácie:
1. [1.1] WOOD, David R. Defective and Clustered Graph Colouring. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018., Registrované v: WOS
- ADEB40 REPICKÝ, Miroslav. A proof of the independence of the Axiom of Choice from the Boolean Prime Ideal Theorem. In *Commentationes Mathematicae Universitatis Carolinae*, 2015, vol. 56, no. 4, p. 543-546. (2014: 0.240 - SJR, Q4 - SJR). ISSN 0010-2628.
Citácie:
1. [1.1] HERZBERG, Frederik S. - KANOVEI, Vladimir - KATZ, Mikhail - LYUBETSKY, Vassily. MINIMAL AXIOMATIC FRAMEWORKS FOR DEFINABLE HYPERREALS WITH TRANSFER. In *JOURNAL OF SYMBOLIC LOGIC*. ISSN 0022-4812, 2018, vol. 83, no. 1, p. 385-391., Registrované v: WOS
- ADEB41 RIEČAN, Beloslav. On the law of large numbers for IF-events. In *Notes on Intuitionistic Fuzzy Sets*, 2013, vol. 19, no. 3, s. 42-46. ISSN 1310-4926.
Citácie:
1. [1.2] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In *Soft Computing*. ISSN 14327643, 2018-04-01, 22, 8, pp. 2471-2483., Registrované v: SCOPUS
- ADEB42 ROSA, Alexander. O cyklických rozkladoch kompletného grafu na nepárnouholníky. In *Časopis pro pěstování matematiky*, 1966, vol. 91, s. 53-63.

- Citácie:
- [1.1] OMER, Farej - SHALABY, Nabil. Generalized starter sequences. In *JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES*. ISSN 0252-2667, 2018, vol. 39, no. 6, pp. 1329-1348., Registrované v: WOS
- ADEB43 SHAHROKHI, F. - SÝKORA, O. - SZEKELY, L.A. - VRŤO, Imrich. Crossing numbers: bounds and applications. In *Intuitive Geometry*, 1997, vol. 6, p. 179-206.
- Citácie:
- [1.1] ZHAO LINGQI - XU XIRONG - BAI SIQIN - ZHANG HUIFENG - YANG YUANSHEG. The crossing number of locally twisted cubes LTQ(n). In *DISCRETE APPLIED MATHEMATICS*. ISSN 0166-218X, 2018, vol. 247, p. 407-418., Registrované v: WOS
- ADEB44 SHAHROKHI, Farhad - SÝKORA, Ondrej - SZÉKELY, László - VRŤO, Imrich. Bounds for convex crossing numbers. In *Lecture Notes in Computer Science*, 2003, vol. 2697, p. 487-495. ISSN 0302-9743.
- Citácie:
- [1.2] SCHAEFER, Marcus. The graph crossing number and its variants: A survey. In *Electronic Journal of Combinatorics*, 2018-01-01, 1, dynamicSurveys, pp., Registrované v: SCOPUS
- ADEB45 STACHO, Ladislav. Maximally non-hamiltonian graphs of girth 7. In *Graphs and combinatorics*, 1996, vol. 12, no. 1, p. 361-371. ISSN 0911-0119.
- Citácie:
- [1.2] FAUDREE, Jill R. - FAUDREE, Ralph J. - SCHMITT, John R. A survey of minimum saturated graphs. In *Electronic Journal of Combinatorics*, 2018-01-01, 1, dynamicSurveys, pp., Registrované v: SCOPUS
- ADEB46 SÝKORA, O. - TÖRÖK, Ľubomír - VRŤO, Imrich. The cyclic antibandwidth problem. In *Electronic Notes in Discrete Mathematics*, 2005, vol. 22, p. 223-227. ISSN 1571-0653.
- Citácie:
- [1.2] PARDO, Eduardo G. - MARTÍ, Rafael - DUARTE, Abraham. Linear layout problems. In *Handbook of Heuristics*, 2018, vol. 2-2, p. 1025-1049., Registrované v: SCOPUS
- ADEB47 ŠTVRTINOVÁ, V. - KOLESÁR, J. - WIMMER, Gejza. Prevalence of varicose veins of the lower limbs in the women working at a department store. In *International Angiology*, 1991, vol. 10, p. 2-5. ISSN 0392-9590.
- Citácie:
- [1.1] MURRAY, R. Z. - WEST, Z. E. - MCGUINNESS, W. The multifactorial formation of chronic wounds. In *WOUND PRACTICE AND RESEARCH*. ISSN 1837-6304, 2018, vol. 26, no. 1, p. 38-46., Registrované v: WOS
 - [1.1] NICOLAIDES, Andrew - KAKKOS, Stavros - BAEKGAARD, Niels - COMEROTA, Anthony - DE MAESENNE, Marianne - EKLOF, Bo - GIANNOUKAS, Athanasios D. - LUGLI, Marzia - MALETI, Oscar - MYERS, Ken - NELZEN, Olle - PARTSCH, Hugo - PERRIN, Michel. MANAGEMENT OF CHRONIC VENOUS DISORDERS OF THE LOWER LIMBS GUIDELINES ACCORDING TO SCIENTIFIC EVIDENCE PART I. In *INTERNATIONAL ANGIOLOGY*. ISSN 0392-9590, 2018, vol. 37, no. 3, p. 181-254., Registrované v: WOS
- ADEB48 WIMMER, Gejza - ALTMANN, G. Review Article: On Vocabulary Richness. In *Journal of Quantitative Linguistics*, 1999, vol. 6, s. 1-9. ISSN 0929-6174.

Citácie:

1. [1.1] RAJPUT, Nikhil Kumar - AHUJA, Bhavya - RIYAL, Manoj Kumar. A novel approach towards deriving vocabulary quotient. In *DIGITAL SCHOLARSHIP IN THE HUMANITIES*. ISSN 2055-7671, 2018, vol. 33, no. 4, p. 894-901., Registrované v: WOS
2. [3.1] FRANZINI, G., KESTEMONT, M., ROTARI, G., JANDER, M., OCHAB, J.K., FRANZINI, E., BYSZUK, J., RYBICKI, J. Attributing Authorship in the Noisy Digitized Correspondence of Jacob and Wilhelm Grimm. In *Frontiers in Digital Humanities*, 2018, vol. 5, article 4.

ADEB49 WIMMER, Gejza - KOEHLER, R. - GROTHJAHN, R. - ALTMANN, G. Towards a theory of word length distribution. In *Journal of Quantitative Linguistics*, 1994, vol. 1, p. 98-106.

Citácie:

1. [1.1] CHEN, Heng - LIU, Haitao. Quantifying Evolution of Short and Long-Range Correlations in Chinese Narrative Texts across 2000 Years. In *COMPLEXITY*. ISSN 1076-2787, 2018, art. no. 9362468., Registrované v: WOS
2. [1.1] JOSE OLMO-JIMENEZ, Maria - RODRIGUEZ-AVI, Jose - CUEVA-LOPEZ, Valentina. A review of the CTP distribution: a comparison with other over- and underdispersed count data models. In *JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION*. ISSN 0094-9655, 2018, vol. 88, no. 14, p. 2684-2706., Registrované v: WOS
3. [1.1] JOWAHEER, V. - KHAN, N. Mamode - SUNECHER, Y. A BINAR(1) time-series model with cross-correlated COM-Poisson innovations. In *COMMUNICATIONS IN STATISTICS-THEORY AND METHODS*. ISSN 0361-0926, 2018, vol. 47, no. 5, p. 1133-1154., Registrované v: WOS
4. [1.1] SUN, Kun - ZHANG, Lili. Quantitative Aspects of PDTB-Style Discourse Relations across Languages. In *JOURNAL OF QUANTITATIVE LINGUISTICS*. ISSN 0929-6174, 2018, vol. 25, no. 4, p. 342-371., Registrované v: WOS
5. [1.1] ZHANG, Huiming - TAN, Kai - LI, Bo. COM-negative binomial distribution: modeling overdispersion and ultrahigh zero-inflated count data. In *FRONTIERS OF MATHEMATICS IN CHINA*. ISSN 1673-3452, 2018, vol. 13, no. 4, p. 967-998., Registrované v: WOS
6. [3.1] CHEN, Heng. Comparison of Word Length Distributions in Spoken and Written Chinese. In *OPEN ACCESS LIBRARY JOURNAL*. ISSN 2333-9705, eISSN 2333-9721, 2018, vol. 5, e4660.

ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných

ADFA01 DILNA, Nataliya - RONTTO, A. Unique solvability of a non-linear non-local boundary-value problem for systems of non-linear functional differential equations. In *Mathematica Slovaca*, 2010, vol. 60, no. 3, p. 327-338. (2009: 0.308 - IF). ISSN 0139-9918.

Citácie:

1. [1.1] NOVOTNA, Veronika - PUZA, Bedrich. ON THE CONSTRUCTION OF SOLUTIONS OF GENERAL LINEAR BOUNDARY VALUE PROBLEMS FOR SYSTEMS OF FUNCTIONAL DIFFERENTIAL EQUATIONS. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 2, p. 1063-1078., Registrované v: WOS

ADFA02 DUCHOŇ, Miloslav. Vector measures and nuclearity. In *Mathematica Slovaca*, 1988, vol. 38, p. 79-83. ISSN 0139-9918.

Citácie:

1. [1.1] ALBANESE, Angela A. - BONET, Jose - RICKER, Werner J. The Frechet spaces $ces(p+)$, $1 < p < \infty$. In JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS. ISSN 0022-247X, 2018, vol. 458, no. 2, p. 1314-1323., Registrované v: WOS

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 ANTONI, Jozef. On the A-continuity of real function II. In Mathematica Slovaca, 1986, vol. 36, p. 283-288. ISSN 0139-9918.

Citácie:

1. [1.1] CAKALLI, Huseyin - KAPLAN, Huseyin. A VARIATION ON LACUNARY STATISTICAL QUASI CAUCHY SEQUENCES. In COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS. ISSN 1303-5991, 2017, vol. 66, no. 2, p. 71-79., Registrované v: WOS
2. [1.1] MUCUK, Osman - CAKALLI, Huseyin. G-Connectedness in Topological Groups with Operations. In FILOMAT. ISSN 0354-5180, 2018, vol. 32, no. 3, p. 1079-1089., Registrované v: WOS

ADFB02 ATANASSOV, Krassimir T. - RIEČAN, Beloslav. On two operations over intuitionistic fuzzy sets. In Journal of Applied Mathematics, Statistics and Informatics, 2006, vol. 2, p. 145-148. ISSN 1339-0015.

Citácie:

1. [1.1] AI, Zhenghai - XU, Zeshui. Intuitionistic Fuzzy Double Integrals and Their Fundamental Properties. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, 2018, vol. 26, no. 6, p. 3782-3792., Registrované v: WOS
2. [1.1] COBAN, Veysel - ONAR, Sezi Cevik. Pythagorean fuzzy engineering economic analysis of solar power plants. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 15, p. 5007-5020., Registrované v: WOS
3. [1.1] LI, Zehua - WEI, Fuyi. The logarithmic operational laws of intuitionistic fuzzy sets and intuitionistic fuzzy numbers. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2017, vol. 33, no. 6, p. 3241-3253., Registrované v: WOS
4. [1.1] LIAO, Huchang - XU, Zeshui. Hesitant Fuzzy Set and Its Extensions. In HESITANT FUZZY DECISION MAKING METHODOLOGIES AND APPLICATIONS. ISSN 2195-996X, 2017, p. 1-36., Registrované v: WOS
5. [1.1] MARKECHOVA, Dagmar. Kullback-Leibler Divergence and Mutual Information of Experiments in the Fuzzy Case. In AXIOMS. ISSN 2075-1680, 2017, vol. 6, no. 1, art. no. 5., Registrované v: WOS
6. [1.1] YE, Jun. Subtraction and Division Operations of Simplified Neutrosophic Sets. In INFORMATION. ISSN 2078-2489, 2017, vol. 8, no. 2, art. no. 51., Registrované v: WOS

ADFB03 BORSÍK, Ján. Sums, differences, products and quotients of closed graph functions. In Tatra Mountains Mathematical Publications, 2002, vol. 24, p. 117-123. ISSN 1210-3195.

Citácie:

1. [1.1] SIEG, Waldemar. Linear extensions of some Baire-one functions. In ARCHIV DER MATHEMATIK. ISSN 0003-889X, 2018, vol. 110, no. 2, p. 175-182., Registrované v: WOS

ADFB04 BORSÍK, Ján. Mappings preserving Cauchy nets. In Tatra Mountains Mathematical Publications, 2000, vol. 19, p. 63-73. ISSN 1210-3195.

- Citácie:
- [1.1] ISABEL GARRIDO, M. - MERONO, Ana S. *The Samuel realcompactification*. In *TOPOLOGY AND ITS APPLICATIONS*. ISSN 0166-8641, 2018, vol. 241, p. 150-161., Registrované v: WOS
- ADFB05 BORSÍK, Ján - DOBOŠ, J. Functions whose composition with every metric is a metric. In *Mathematica Slovaca*, 1981, vol. 31, p. 3-12. ISSN 0139-9918.
- Citácie:
- [1.1] RETZLAFF, Nancy - STADLER, Peter F. *Phylogenetics beyond biology*. In *THEORY IN BIOSCIENCES*. ISSN 1431-7613, 2018, vol. 137, no. 2, p. 133-143., Registrované v: WOS
 - [2.1] KHEMARATCHATAKUMTHORN, Tammatada - PONGSRIIAM, Prapanpong. *REMARKS ON b-METRIC AND METRIC-PRESERVING FUNCTIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 5, p. 1009-1016., Registrované v: WOS
- ADFB06 BORSÍK, Ján - DOBOŠ, J. On a product of metric spaces. In *Mathematica Slovaca*, 1981, vol. 31, p. 193-205. ISSN 0139-9918.
- Citácie:
- [1.1] ITOH, Toshiya - TAKEI, Yoshinori. *On Aggregating Two Metrics with Relaxed Triangle Inequalities by the Weighted Harmonic Mean*. In *IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES*. ISSN 1745-1337, 2018, vol. E101A, no. 9, p. 1404-1411., Registrované v: WOS
- ADFB07 BORSÍK, Ján - ŠALÁT, Tibor. On F-continuity of real functions. In *Tatra Mountains Mathematical Publications*, 1993, vol. 2, s. 37-42. ISSN 1210-3195.
- Citácie:
- [1.1] KADAK, Ugur. *Weighted Statistical Relative Invariant Mean in Modular Function Spaces with Related approximation Results*. In *NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION*. ISSN 0163-0563, 2018, vol. 39, no. 11, p. 1181-1207., Registrované v: WOS
 - [1.1] MUCUK, Osman - CAKALLI, Huseyin. *G-Connectedness in Topological Groups with Operations*. In *FILOMAT*. ISSN 0354-5180, 2018, vol. 32, no. 3, p. 1079-1089., Registrované v: WOS
- ADFB08 BOSÁK, Juraj - NEŠETŘIL, Jaroslav. Complete and pseudocomplete colourings of a graph. In *Mathematica Slovaca*, 1976, vol. 26, no. 3, p. 171-184. ISSN 0139-9918. Dostupné na internete: https://dml.cz/bitstream/handle/10338.dmlcz/130422/MathSlov_26-1976-3_2.pdf.
- Citácie:
- [1.1] GABRIELA ARAUJO-PARDO, M. - JOSE MONTELLANO-BALLESTEROS, Juan - RUBIO-MONTIEL, Christian - STRAUZ, Ricardo. *On the Pseudoachromatic Index of the Complete Graph III*. In *GRAPHS AND COMBINATORICS*. ISSN 0911-0119, 2018, vol. 34, no. 2, p. 277-287., Registrované v: WOS
 - [1.1] KACED, Tarik - ROMASHCHENKO, Andrei - VERESHCHAGIN, Nikolai. *A Conditional Information Inequality and Its Combinatorial Applications*. In *IEEE TRANSACTIONS ON INFORMATION THEORY*. ISSN 0018-9448, 2018, vol. 64, no. 5, p. 3610-3615., Registrované v: WOS
- ADFB09 BOSÁK, Juraj. Partially directed Moore graphs. In *Mathematica Slovaca*, 1979, vol. 29, no. 2, p. 181-196. ISSN 0139-9918.
- Citácie:
- [1.1] DALFO, Cristina - ANGEL FIOL, Miquel - LOPEZ, Nacho. *On bipartite-mixed graphs*. In *JOURNAL OF GRAPH THEORY*. ISSN 0364-9024, 2018, vol. 89, no. 4, p. 386-394., Registrované v: WOS

- ADFB10 BRUNOVSKÝ, P.. Local controllability of odd systems. In Banach Center Publications, 1976, vol. 1, p. 39-45. Dostupné na internete: <<http://www.iam.fmph.uniba.sk/institute/sevcovic/PaloKompendum/clankyI/1976-BanachCenter.pdf>>.
Citácie:
1. [1.1] MIR, Imran - EISA, Sameh A. - MAQSOOD, Adnan. Review of dynamic soaring: technical aspects, nonlinear modeling perspectives and future directions. In *NONLINEAR DYNAMICS*. ISSN 0924-090X, 2018, vol. 94, no. 4, pp. 3117-3144., Registrované v: WOS
2. [1.1] MIR, Imran - TAHA, Haitham - EISA, Sameh A. - MAQSOOD, Adnan. A controllability perspective of dynamic soaring. In *NONLINEAR DYNAMICS*. ISSN 0924-090X, 2018, vol. 94, no. 4, pp. 2347-2362., Registrované v: WOS
3. [1.1] VRABEL, Robert. Local null controllability of the control-affine nonlinear systems with time-varying disturbances. In *EUROPEAN JOURNAL OF CONTROL*. ISSN 0947-3580, 2018, vol. 40, no., pp. 80-86., Registrované v: WOS
- ADFB11 DI NOLA, Antonio - DVUREČENSKIJ, Anatolij. On some classes of state-morphism MV-algebras. In *Mathematica Slovaca*, 2009, vol. 59, p. 517-534. ISSN 0139-9918.
Citácie:
1. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 9, p. 2825-2841., Registrované v: WOS
2. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
3. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS
- ADFB12 DUCHOŇ, Miloslav - DEBIEVE, C. Functions with bounded variation in locally convex space. In *Tatra Mountains Mathematical Publications*, 2011, vol. 49, p. 89-98. ISSN 1210-3195.
Citácie:
1. [1.1] VOGT, Thomas - LELLMANN, Jan. Measure-Valued Variational Models with Applications to Diffusion-Weighted Imaging. In *JOURNAL OF MATHEMATICAL IMAGING AND VISION*. ISSN 0924-9907, 2018, vol. 60, no. 9, p. 1482-1502., Registrované v: WOS
- ADFB13 DUCHOŇ, Miloslav. A generalized Bernstein approximation theorem. In *Tatra Mountains Mathematical Publications*, 2011, vol. 49, p. 99-109. ISSN 1210-3195.
Citácie:
1. [1.1] KUKLA, Jonas - MOEHLE, Martin. On the block counting process and the fixation line of the Bolthausen-Sznitman coalescent. In *STOCHASTIC PROCESSES AND THEIR APPLICATIONS*. ISSN 0304-4149, 2018, vol. 128, no. 3, p. 939-962., Registrované v: WOS
2. [1.1] SIMSEK, Yilmaz. Generating functions for unification of the multidimensional Bernstein polynomials and their applications. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 17, p. 7170-7181., Registrované v: WOS
- ADFB14 DVUREČENSKIJ, Anatolij - RACHUNEK, J. On Riečan and Bosbach states for bounded non-commutative RI-monoids. In *Mathematica Slovaca*, 2006, vol. 56, p. 487-500. ISSN 0139-9918.

Citácie:

1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. States, state operators and quasi-pseudo-MV algebras. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 24, p. 8025-8040., Registrované v: WOS
2. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*. ISSN 1064-1246, 2018, vol. 35, no. 3, p. 3773-3782., Registrované v: WOS
3. [1.2] MUKKAMALA, Sambasiva Rao. A course in BE-algebras. In *A Course in BE-Algebras*, 2018, p. 1-448., Registrované v: SCOPUS

ADFB15 FEČKAN, Michal. The relation between a flow and its discretization. In *Mathematica Slovaca*, 1992, vol. 42, no. 1, p. 123-127. ISSN 0139-9918.

Citácie:

1. [1.1] MOHDEB, Nadia - FRUCHARD, Augustin - MEHIDI, Noureddine. ELLIPTIC SECTORS AND EULER DISCRETIZATION. In *ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS*. ISSN 1072-6691, 2018, art. no. 183., Registrované v: WOS

ADFB16 FRIČ, Roman. Remarks on statistical maps and fuzzy (operational) random variables. In *Tatra Mountains Mathematical Publications*, 2005, vol. 30, s. 21-34. ISSN 1210-3195.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADFB17 FRIČ, Roman. Statistical maps: a categorical approach. In *Mathematica Slovaca*, 2007, vol. 57, s. 41-57. ISSN 0139-9918.

Citácie:

1. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADFB18 HARMINC, Matúš. Solutions and kernels of a directed graph. In *Mathematica Slovaca*, 1982, vol. 32, p. 263-267. ISSN 0139-9918.

Citácie:

1. [1.1] GUO, Yubao - SURMACS, Michel. Miscellaneous Digraph Classes. In *CLASSES OF DIRECTED GRAPHS*. ISSN 1439-7382, 2018, p. 517-574., Registrované v: WOS

ADFB19 HARMINC, Matúš. Sequential convergences on cyclically ordered groups. In *Mathematica Slovaca*, 1988, vol. 38, no. 3, p. 249-253. ISSN 0139-9918.

Citácie:

1. [1.1] ROSJANUARDI, R. Crossed Products Related to Cyclically Ordered Semi Groups. In *INTERNATIONAL SEMINAR ON MATHEMATICS, SCIENCE, AND COMPUTER SCIENCE EDUCATION (MSCEIS 2016)*. ISSN 1742-6588, 2017, vol. 812., Registrované v: WOS

ADFB20 JAKUBÍK, Ján. On Isomorphisms of graphs of lattices. In *Czechoslovak Mathematical Journal*, 1986, vol. 35, no. 2, p. 188-200. ISSN 0011-4642.

Citácie:

1. [1.1] BELIM, S. - BOGACHENKO, N. F. THE CHECK OF THE CORRESPONDENCE OF THE DIRECTED GRAPH TO THE ALGEBRAIC LATTICE. In *PRIKLADNAYA DISKRETNAYA MATEMATIKA*. ISSN 2071-0410, 2018, no. 41, p. 54-65., Registrované v: WOS

ADFB21 JAKUBÍK, Ján. Formations of lattice ordered groups and of GMV-algebras. In *Mathematica Slovaca*, 2008, vol. 58, p. 521-534. ISSN 0139-9918.

Citácie:

1. [1.1] TSAREV, Aleksandr - VOROB';EV, Nikolay N. Lattices of composition formations of finite groups and the laws. In *JOURNAL OF ALGEBRA AND ITS APPLICATIONS*. ISSN 0219-4988, 2018, vol. 17, no. 5., Registrované v: WOS

2. [1.1] VOROB';EV, Nikolay N. On Sublattices of the Lattice of all omega-Composition Formations of Finite Groups. In *ADVANCES IN GROUP THEORY AND APPLICATIONS*. ISSN 2499-1287, 2018, vol. 6, p. 89-100., Registrované v: WOS

ADFB22 KOCHOL, Martin. Constructive approximation of a ball by polytopes. In *Mathematica Slovaca*, 1994, vol. 44, s. 99-105. ISSN 0139-9918.

Citácie:

1. [3.1] BARVINOK, A. The tensorization trick in convex geometry. In *New Trends in Intuitive Geometry*, ISBN 9783662574133, Eds. G. Ambrus, I. Barany, K.J. Boroczky, G. Fejes Toth, J. Pach, Springer Berlin, p. 1-23.

ADFB23 KOTZIG, A. Z teórie konečných grafov s lineárnym faktorom II = On the theory of finite graphs with a linear factor II. In *Matematicko-fyzikálny časopis*, 1959, vol. 9, no. 3, p. 136-159.

Citácie:

1. [1.1] CHAPLICK, Steven - FUERST, Maximilian - MAFFRAY, Frederic - RAUTENBACH, Dieter. On some graphs with a unique perfect matching. In *INFORMATION PROCESSING LETTERS*. ISSN 0020-0190, 2018, vol. 139, no., pp. 60-63., Registrované v: WOS

ADFB24 KOTZIG, A. Z teórie konečných grafov s lineárnym faktorom, I = On the theory of finite graphs with a linear factor, I. In *Mathematica Slovaca*, 1959, vol. 9, p. 73-91. ISSN 0139-9918.

Citácie:

1. [1.1] WU, Yezhou - YANG, Yujun - YE, Dong. A Note on Median Eigenvalues of Bipartite Graphs. In *MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY*. ISSN 0340-6253, 2018, vol. 80, no. 3, pp. 853-862., Registrované v: WOS

2. [1.1] ZHAI, Shaohui - ALROWAILI, Dalal - YE, Dong. Clar structures vs Fries structures in hexagonal systems. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 329, no., pp. 384-394., Registrované v: WOS

ADFB25 KOTZIG, A. Hamilton graphs and Hamilton circuits. In *Theory of Graphs and its Applications*, 1964, vol. 62, p. 63-82. Conference: Proceedings of the Symposium of Smolenice, 1963, p. 524-529.

Citácie:

1. [1.1] BRYANT, Darryn - MAENHAUT, Barbara - SMITH, Benjamin R. On Hamilton decompositions of line graphs of non-Hamiltonian graphs and graphs without separating transitions. In *AUSTRALASIAN JOURNAL OF COMBINATORICS*. ISSN 2202-3518, 2018, vol. 71, no., pp. 537-543., Registrované v: WOS

ADFB26 KOTZIG, A. Iz teorii ejlerovskych mnogogrannikov = From the theory of Euler's polyhedrons. In *Matematicko-fyzikálny časopis*, 1963, vol. 13, p. 20-31.

Citácie:

1. [1.1] BORODIN, O. V. - IVANOVA, A. O. - NIKIFOROV, D. V. Describing Neighborhoods of 5-Vertices in a Class of 3-Polytopes with Minimum Degree 5. In *SIBERIAN MATHEMATICAL JOURNAL*. ISSN 0037-4466, 2018, vol. 59, no. 1, pp. 43-49., Registrované v: WOS

2. [1.1] BORODIN, Oleg - IVANOVA, Anna O. - KAZAK, Olesya N. DESCRIBING NEIGHBORHOODS OF 5-VERTICES IN 3-POLYTOPES WITH MINIMUM DEGREE 5 AND WITHOUT VERTICES OF DEGREES FROM 7 TO 11. In DISCUSSIONES MATHEMATICAE GRAPH THEORY. ISSN 1234-3099, 2018, vol. 38, no. 3, pp. 615-625., Registrované v: WOS
 3. [1.1] BORODIN, Oleg - IVANOVA, Anna O. Low minor faces in 3-polytopes. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 12, pp. 3415-3424., Registrované v: WOS
 4. [1.1] BORODIN, Oleg V. - BYKOV, Mikhail A. - IVANOVA, Anna O. MORE ABOUT THE HEIGHT OF FACES IN 3-POLYTOPES. In DISCUSSIONES MATHEMATICAE GRAPH THEORY. ISSN 1234-3099, 2018, vol. 38, no. 2, pp. 443-453., Registrované v: WOS
- ADFB27 KUBÁČEK, Lubomír. Two stage linear model with constraints. In Mathematica Slovaca, 1993, vol. 43, no. 5, p. 643-658. ISSN 0139-9918.
Citácie:
1. [1.1] MAREK, Jaroslav - PIDANIC, Jan - JURYCA, Karel. The Estimation of the Transmitter's Coordinates and its Uncertainty. In PROCEEDINGS OF ELMAR-2018: 60TH INTERNATIONAL SYMPOSIUM ELMAR-2018. ISSN 1334-2630, 2018, vol., no., pp. 129-133., Registrované v: WOS
- ADFB28 MESIAR, Radko - RIEČAN, Beloslav. On the joint observable in some quantum structures. In Tatra Mountains Mathematical Publications, 1993, vol. 3, p. 183-190. ISSN 1210-3195.
Citácie:
1. [1.1] POVAZAN, Jaroslav. Strong Law of Large Numbers on D-posets. In UNCERTAINTY AND IMPRECISION IN DECISION MAKING AND DECISION SUPPORT: CROSS-FERTILIZATION, NEW MODELS, AND APPLICATIONS. ISSN 2194-5357, 2018, vol. 559, no., pp. 30-35., Registrované v: WOS
- ADFB29 MIHÓK, Peter - TUZA, Zsolt - VOIGT, Margit. Fractional p-colorings and p-choice-ratio. In Tatra Mountains Mathematical Publications, 1999, vol. 18, p. 69-77. ISSN 1210-3195.
Citácie:
1. [1.1] CHAPPELL, Glenn G. - HARTMAN, Chris. Path Choosability of Planar Graphs. In ELECTRONIC JOURNAL OF COMBINATORICS. ISSN 1077-8926, 2018, vol. 25, no. 4, pp., Registrované v: WOS
- ADFB30 PORUBSKÝ, Štefan. Natural exactly covering systems of congruences. In Czechoslovak Mathematical Journal, 1974, vol. 24, no. 4, p. 598-606. ISSN 0011-4642.
Citácie:
1. [1.1] GINOSAR, Y. Tile the group. In ELEMENTE DER MATHEMATIK. ISSN 0013-6018, 2018, vol. 73, no. 2, pp. 66-73., Registrované v: WOS
- ADFB31 PULMANNOVÁ, Sylvia. A quantum logics description of quantum measurements. In Tatra Mountains Mathematical Publications, 1993, vol. 3, p. 89-100. ISSN 1210-3195.
Citácie:
1. [1.1] DVURECENSKIJ, Anatolij. Quantum Observables and Effect Algebras. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS. ISSN 0020-7748, 2018, vol. 57, no. 3, p. 637-651., Registrované v: WOS
- ADFB32 PULMANNOVÁ, Sylvia - VINCEKOVÁ, Elena. Remarks on the order of quantum observables. In Mathematica Slovaca, 2007, vol. 57, no. 6, p. 589-600. ISSN 0139-9918.

- Citácie:
- [1.1] BOHATA, Martin. *Star Order and Topologies on von Neumann Algebras*. In *MEDITERRANEAN JOURNAL OF MATHEMATICS*. ISSN 1660-5446, 2018, vol. 15, no. 4, art. no. 175., Registrované v: WOS
- ADFB33 RIEČAN, Beloslav. On the product MV-algebras. In *Tatra Mountains Mathematical Publications*, 1999, vol. 16, s. 143-149. ISSN 1210-3195.
- Citácie:
- [1.1] KLUVANCOVA, Daniela. *On the Conditional Expectation on Kopka's D-posets*. In *UNCERTAINTY AND IMPRECISION IN DECISION MAKING AND DECISION SUPPORT: CROSS-FERTILIZATION, NEW MODELS, AND APPLICATIONS*. ISSN 2194-5357, 2018, vol. 559, no., pp. 22-29., Registrované v: WOS
 - [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. *Logical Divergence, Logical Entropy, and Logical Mutual Information in Product MV-Algebras*. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 2, pp., Registrované v: WOS
- ADFB34 RIEČAN, Beloslav. On a type of entropy of dynamical systems. In *Tatra Mountains Mathematical Publications*, 1992, vol. 1, p. 135-140. ISSN 1210-3195.
- Citácie:
- [1.1] GISKI, Zahra Eslami - EBRAHIMZADEH, Abolfazl - MARKECHOVA, Dagmar. *Logical entropy on effect algebras with the Riesz decomposition property*. In *EUROPEAN PHYSICAL JOURNAL PLUS*. ISSN 2190-5444, 2018, vol. 133, no. 7, pp., Registrované v: WOS
- ADFB35 SCHWARZ, Štefan. Summy stepenej binarných otnošeníj. In *Matematický časopis*, 1974, vol. 24, s. 161-171.
- Citácie:
- [2.1] PORUBSKY, Štefan. *IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 6, pp. 1231-1312., Registrované v: WOS
- ADFB36 SCHWARZ, Štefan. The role of semigroups in the elementary theory of numbers. In *Mathematica Slovaca*, 1981, vol. 31, no. 4, p. 369-395. ISSN 0139-9918.
- Citácie:
- [1.1] COSGRAVE, John B. - DILCHER, Karl. *Gauss Factorials, Jacobi Primes, and Generalized Fermat Numbers*. In *PUNJAB UNIVERSITY JOURNAL OF MATHEMATICS*. ISSN 1016-2526, 2018, vol. 50, no. 4, pp. 1-21., Registrované v: WOS
 - [2.1] PORUBSKY, Štefan. *IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS
- ADFB37 SCHWARZ, Štefan. Fermat's theorem for matrices revisited. In *Mathematica Slovaca*, 1985, vol. 35, no. 4, p. 343-347. ISSN 0139-9918.
- Citácie:
- [2.1] PORUBSKY, Štefan. *IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS
- ADFB38 SCHWARZ, Štefan. On Powers of Non-Negative Matrices. In *Mathematica Slovaca*, 1965, vol. 15, no. 3, p. 215-228. ISSN 0139-9918. Dostupné na internete: <<http://dml.cz/dmlcz/126741>>.
- Citácie:
- [1.1] PORUBSKY, Štefan. *IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 6, pp. 1231-1312., Registrované v: WOS

- ADFB39 SCHWARZ, Štefan. Common consequents in directed graphs. In Czechoslovak Mathematical Journal, 1985, vol. 35, no. 2, p. 212-247. ISSN 0011-4642.
Citácie:
1. [2.1] *PORUBSKY, Stefan. IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS*
- ADFB40 SCHWARZ, Štefan. A combinatorial problem arising in finite Markov chains. In Mathematica Slovaca, 1986, vol. 36, no. 2, p. 199-210. ISSN 0139-9918.
Citácie:
1. [2.1] *PORUBSKY, Stefan. IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS*
- ADFB41 SCHWARZ, Štefan. A Note on the structure of the semigroup of doubly-stochastic matrices. In Matematický časopis, 1967, vol. 17, no. 4, p. 308-316.
Citácie:
1. [2.1] *PORUBSKY, Stefan. IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS. In MATHEMATICA SLOVACA. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS*
- ADFB42 SCHWARZ, Štefan. Irreducible polynomials over finite fields with linearly independent root. In Mathematica Slovaca, 1988, vol. 38, no. 2, p. 147-158. ISSN 0139-9918.
Citácie:
1. [1.1] *ALIZADEH, Mahmood - DARAFSHEH, Mohammad Reza - MEHRABI, Saeid. ON THE k-NORMAL ELEMENTS AND POLYNOMIALS OVER FINITE FIELDS. In ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS. ISSN 1126-8042, 2018, vol., no. 39, pp. 451-464., Registrované v: WOS*
- ADFB43 SPIŠIAK, Ladislav - VOJTÁŠ, Peter. Dependences between definitions of finiteness. In Czechoslovak Mathematical Journal, 1988, vol. 38, p. 389-397. ISSN 0011-4642.
Citácie:
1. [1.1] *TACHTSIS, Eleftherios. On the minimal cover property and certain notions of finite. In ARCHIVE FOR MATHEMATICAL LOGIC. ISSN 0933-5846, 2018, vol. 57, no. 5-6, pp. 665-686., Registrované v: WOS*
- ADFB44 ŠUCH, Ondrej. Vertex transitive maps on torus. In Acta Mathematicae Universitatis Comenianae, 2011, vol. 80, no. 1, s. 1-29. ISSN 0862-9544.
Citácie:
1. [1.1] *DATTA, Basudeb - MAITY, Dipendu. Semi-equivelar maps on the torus and the Klein bottle are Archimedean. In DISCRETE MATHEMATICS. ISSN 0012-365X, 2018, vol. 341, no. 12, p. 3296-3309., Registrované v: WOS*
- ADFB45 WITKOVSKÝ, Viktor - WIMMER, Gejza. On statistical models for consensus values. In Measurement Science Review, 2001, vol. 1, p. 33-36. ISSN 1335-8871.
Citácie:
1. [1.1] *HUANG, Hening. A new method for estimating consensus values in interlaboratory comparisons. In METROLOGIA. ISSN 0026-1394, 2018, vol. 55, no. 1, p. 106-113., Registrované v: WOS*

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

- ADMA01 DIBLÍK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Representation of a solution of the Cauchy problem for an oscillating system with two delays and permutable matrices. In *Ukrainian Mathematical Journal*, 2013, vol. 65, no. 1, p. 64-76. (2012: 0.154 - IF, 0.323 - SJR). ISSN 0041-5995.
- Citácie:
1. [1.1] CAO, Xiaokai - WANG, JinRong. Finite-time stability of a class of oscillating systems with two delays. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, p. 4943-4954., Registrované v: WOS
 2. [1.1] LI, Mengmeng - WANG, JinRong. Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, p. 254-265., Registrované v: WOS
 3. [1.1] LI, Mengmeng - WANG, JinRong. Representation of solution of a Riemann-Liouville fractional differential equation with pure delay. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, p. 118-124., Registrované v: WOS
 4. [1.1] LIANG, Chengbin - WANG, JinRong - O'; REGAN, D. Representation of a solution for a fractional linear system with pure delay. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 77, p. 72-78., Registrované v: WOS
 5. [1.1] LIANG, Chengbin - WANG, JinRong. Analysis of iterative learning control for an oscillating control system with two delays. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 6, p. 1757-1765., Registrované v: WOS
 6. [1.1] MAHMUDOV, N. Representation of solutions of discrete linear delay systems with non permutable matrices. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, p. 8-14., Registrované v: WOS
 7. [1.1] WANG, JinRong - LUO, Zijian - SHEN, Dong. Iterative learning control for linear delay systems with deterministic and random impulses. In *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS*. ISSN 0016-0032, 2018, vol. 355, no. 5, p. 2473-2497., Registrované v: WOS
 8. [1.1] WANG, JinRong - LUO, Zijian. Finite time stability of semilinear multi-delay differential systems. In *TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL*. ISSN 0142-3312, 2018, vol. 40, no. 9, p. 2948-2959., Registrované v: WOS
 9. [1.1] YOU, Zhongli - WANG, JinRong. On the exponential stability of nonlinear delay systems with impulses. In *IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION*. ISSN 0265-0754, 2018, vol. 35, no. 3, p. 773-803., Registrované v: WOS
 10. [1.1] YOU, Zhongli - WANG, JinRong. Stability of impulsive delay differential equations. In *JOURNAL OF APPLIED MATHEMATICS AND COMPUTING*. ISSN 1598-5865, 2018, vol. 56, no. 1-2, p. 253-268., Registrované v: WOS
- ADMA02 JAJCAY, R. - NEDELA, Roman. Half-regular Cayley maps. In *Graphs and combinatorics*, 2015, vol. 31, no. 4, p. 1003-1018. (2014: 0.388 - IF, Q4 - JCR, 0.819 - SJR, Q2 - SJR). (2015 - WOS, SCOPUS). ISSN 0911-0119.

- Citácie:
1. [1.1] KOVACS, Istvan - KUTNAR, Klavdija - MARUSIC, Dragan - PELLICER, Daniel. On even-closed regular embeddings of graphs. In *EUROPEAN JOURNAL OF COMBINATORICS*. ISSN 0195-6698, 2018, vol. 73, no., p. 153-169., Registrované v: WOS
 2. [1.1] MUZYCHUK, Mikhail - SOMLAI, Gabor. The Cayley isomorphism property for Cayley maps. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018, vol. 25, no. 1., Registrované v: WOS
- ADMA03 JAKUBÍKOVÁ-STUDENOVSKÁ, D. - PÓCS, Jozef. Formations of finite monounary algebras. In *Algebra Universalis*, 2012, vol. 68, no. 3-4, p. 249-255. (2011: 0.430 - IF, 0.518 - SJR). ISSN 0002-5240.
- Citácie:
1. [1.1] RASSTRIGIN, A. L. On Categorical Equivalence Between Formations of Monounary Algebras. In *LOBACHEVSKII JOURNAL OF MATHEMATICS*. ISSN 1995-0802, 2018, vol. 39, no. 1, p. 138-141., Registrované v: WOS
 2. [1.1] TSAREV, Aleksandr - VOROB'EV, Nikolay N. Lattices of composition formations of finite groups and the laws. In *JOURNAL OF ALGEBRA AND ITS APPLICATIONS*. ISSN 0219-4988, 2018, vol. 17, no. 5, art. no. 1850084., Registrované v: WOS
- ADMA04 KARABÁŠ, Ján - MAČAJOVÁ, E. - NEDELA, Roman. 6-decomposition of snarks. In *European Journal of Combinatorics*, 2013, vol. 34, s. 111-122. (2012: 0.658 - IF, 1.165 - SJR). ISSN 0195-6698.
- Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018, vol. 25, no. 4., Registrované v: WOS
- ADMA05 KOCHOL, Martin. Snarks and flow-snarks constructed from coloring-snarks. In *Discrete Mathematics*, 2004, vol. 278, p. 165-174. ISSN 0012-365X.
- Citácie:
1. [1.1] FIOL, M. A. - MAZZUOCCOLO, G. - STEFFEN, E. Measures of edge-uncolorability of cubic graphs. In *ELECTRONIC JOURNAL OF COMBINATORICS*. ISSN 1077-8926, 2018, vol. 25, no. 4, Registrované v: WOS
- ADMA06 MAČUTEK, J. - WIMMER, Gejza. Evaluating goodness-of-fit of discrete distribution models in quantitative linguistics. In *Journal of Quantitative Linguistics*, 2013, vol. 20, no. 3, p. 227-240. (2012: 0.455 - IF, 0.212 - SJR). ISSN 0929-6174.
- Citácie:
1. [1.1] JIANG, Jingyang - OUYANG, Jinghui. Minimization and Probability Distribution of Dependency Distance in the Process of Second Language Acquisition. In *QUANTITATIVE ANALYSIS OF DEPENDENCY STRUCTURES*. ISSN 0179-3616, 2018, vol. 72, no., p. 167-190., Registrované v: WOS
 2. [1.1] OUYANG, Jinghui - JIANG, Jingyang. Can the Probability Distribution of Dependency Distance Measure Language Proficiency of Second Language Learners? In *JOURNAL OF QUANTITATIVE LINGUISTICS*. ISSN 0929-6174, 2018, vol. 25, no. 4, p. 295-313., Registrované v: WOS
- ADMA07 WANG, JinRong - DENG, JianHua - FEČKAN, Michal. Hermite-Hadamard-type inequalities for r-convex functions based on the use of Riemann-Liouville fractional integrals. In *Ukrainian Mathematical Journal*, 2013, vol. 65, no. 2, p. 193-211. (2012: 0.154 - IF, 0.323 - SJR). ISSN 0041-5995.

Citácie:

1. [1.1] KHAN, Muhammad Adil - CHU, Yuming - KHAN, Tahir Ullah - KHAN, Jamroz. Some new inequalities of Hermite-Hadamard type for s -convex functions with applications. In OPEN MATHEMATICS. ISSN 2391-5455, 2017, vol. 15, no. 1, p. 1414-1430., Registrované v: WOS
2. [1.1] WANG, Hao - DU, Tingsong - ZHANG, Yao. k -fractional integral trapezium-like inequalities through (h, m) -convex and (α, m) -convex mappings. In JOURNAL OF INEQUALITIES AND APPLICATIONS. ISSN 1029-242X, 2017, art. no. 311., Registrované v: WOS
3. [1.1] ZHANG, Yao - DU, Ting-Song - WANG, Hao - SHEN, Yan-Jun - KASHURI, Arton. Extensions of different type parameterized inequalities for generalized (m, h) -preinvex mappings via k -fractional integrals. In JOURNAL OF INEQUALITIES AND APPLICATIONS. ISSN 1029-242X, 2018, art. no. 49., Registrované v: WOS
4. [1.2] DU, Tingsong - WU, Shanhe - ZHAO, Shoujiang - AWAN, Muhammad Uzair. Riemann-Liouville fractional Hermite-Hadamard inequalities for h -preinvex functions. In Journal of Computational Analysis and Applications. ISSN 15211398, 2018, vol. 25, no. 2, p. 364-384., Registrované v: SCOPUS
5. [1.2] GUO, Piao - HUANG, Zhengzheng - DU, Tingsong. Riemann-Liouville fractional trapezium-like inequalities via generalized $(m, h<\inf m</inf>, h<\inf n</inf>)$ -preinvexity. In Proyecciones. ISSN 07160917, 2018, vol. 37, no. 2, p. 345-378., Registrované v: SCOPUS

ADMA08

WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Controllability of Sobolev type fractional evolution systems. In Dynamics of Partial Differential Equations, 2014, vol. 11, no. 1, p. 71-87. (2013: 1.229 - IF, 0.945 - SJR). ISSN 1548-159X.

Citácie:

1. [1.1] CHENG, Yi - AGARWAL, Ravi P. - O'REGAN, Donal. EXISTENCE AND CONTROLLABILITY FOR NONLINEAR FRACTIONAL DIFFERENTIAL INCLUSIONS WITH NONLOCAL BOUNDARY CONDITIONS AND TIME-VARYING DELAY. In FRACTIONAL CALCULUS AND APPLIED ANALYSIS. ISSN 1311-0454, 2018, vol. 21, no. 4, p. 960-980., Registrované v: WOS
2. [1.1] CHENG, Yi - GAO, Shanshan - WU, Yuhu. Exact controllability of fractional order evolution equations in Banach spaces. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 332., Registrované v: WOS
3. [1.1] HAN, Jingqi - YAN, Litan. Controllability of a stochastic functional differential equation driven by a fractional Brownian motion. In ADVANCES IN DIFFERENCE EQUATIONS. ISSN 1687-1847, 2018, art. no. 104., Registrované v: WOS
4. [1.1] VIJAYAKUMAR, V. Approximate controllability results for impulsive neutral differential inclusions of Sobolev-type with infinite delay. In INTERNATIONAL JOURNAL OF CONTROL. ISSN 0020-7179, 2018, vol. 91, no. 10, p. 2366-2386., Registrované v: WOS

ADMA09

WANG, JinRong - ZHU, Chun - FEČKAN, Michal. Solvability of fully nonlinear functional equations involving Erdélyi-Kober fractional integrals on the unbounded interval. In Optimization : a Journal of Mathematical Programming and Operations Research, 2014, vol. 63, no. 8, p. 1235-1248. (2013: 0.771 - IF, 0.611 - SJR). ISSN 0233-1934.

Citácie:

1. [1.1] BANAS, Jozef - CHLEBOWICZ, Agnieszka. ON A QUADRATIC INTEGRAL EQUATION OF ERDELYI-KOBER TYPE IN THE CLASS OF SUBPOWER FUNCTIONS. In JOURNAL OF NONLINEAR AND CONVEX ANALYSIS. ISSN 1345-4773, 2018, vol. 19, no. 5, p. 823-840., Registrované v: WOS
2. [1.1] BANAS, Jozef - DUBIEL, Agnieszka. Solutions of a quadratic Volterra-Stieltjes integral equation in the class of functions converging at infinity. In ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS. ISSN 1417-3875, 2018, no. 80, p. 1-17., Registrované v: WOS

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

- ADMB01 AGAOGLOU, Makrina - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, Vassilis M. - VAKAKIS, Alexander F. Periodically forced nonlinear oscillatory acoustic vacuum. In Axioms, 2018, vol. 7, no. 4, art. no. 69, p. [1-13]. ISSN 2075-1680.
- Citácie:**
1. [1.1] SRIVASTAVA, Hari M. Mathematical Analysis and Applications. In AXIOMS. ISSN 2075-1680, 2018, vol. 7, no. 4, art. no. 82., Registrované v: WOS
- ADMB02 BEČKA, Martin - OKŠA, Gabriel. New approach to local computations in the parallel one-sided Jacobi SVD algorithm. In Lecture Notes in Computer Science : Parallel Processing and Applied Mathematics. - Heidelberg : Springer, 2016, vol. 9573, p. 605-617. (2015: 0.328 - SJR, Q2 - SJR). ISSN 0302-9743.
- Citácie:**
1. [1.1] KUDO, Shuhei - YAMAMOTO, Yusaku. On Using the Cholesky QR Method in the Full-Blocked One-Sided Jacobi Algorithm. In PARALLEL PROCESSING AND APPLIED MATHEMATICS (PPAM 2017), PT I. ISSN 0302-9743, 2018, vol. 10777, no., p. 612-622., Registrované v: WOS
- ADMB03 BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, Marián. New dynamic orderings for the parallel one-sided block-Jacobi SVD algorithm. In Parallel Processing Letters, 2015, vol. 25, no. 2, article number 1550003. (2014: 0.309 - SJR, Q3 - SJR). (2015 - SCOPUS). ISSN 0129-6264.
- Citácie:**
1. [1.1] BOUKARAM, Wajih Halim - TURKIYYAH, George - LTAIEF, Hatem - KEYES, David E. Batched QR and SVD algorithms on GPUs with applications in hierarchical matrix compression. In PARALLEL COMPUTING. ISSN 0167-8191, 2018, vol. 74, no., pp. 19-33., Registrované v: WOS
 2. [1.1] DONGARRA, Jack - GATES, Mark - HAIDAR, Azzam - KURZAK, Jakub - LUSZCZEK, Piotr - TOMOV, Stanimire - YAMAZAKI, Ichitaro. The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. In SIAM REVIEW. ISSN 0036-1445, 2018, vol. 60, no. 4, pp. 808-865., Registrované v: WOS
 3. [1.1] KUDO, Shuhei - YASUDA, Kousuke - YAMAMOTO, Yusaku. Performance of the parallel block Jacobi method with dynamic ordering for the symmetric eigenvalue problem. In JSIAM LETTERS. ISSN 1883-0609, 2018, vol. 10, no., pp. 41-44., Registrované v: WOS
- ADMB04 DI LUNA, G. - DOBREV, Stefan - FLOCCHINI, Paola - SANTORO, Nicola. Live exploration of dynamic rings. In IEEE International Conference on Distributed Computing Systems, 2016, vol., p. 570-579. (2015: 0.461 - SJR). (2016 - SCOPUS). ISSN 1063-6927.

Citácie:

1. [1.1] AGARWALLA, Ankush - AUGUSTINE, John - MOSES, William K. - SANKAR, Madhav K. - SRIDHAR, Arvind Krishna. *Deterministic Dispersion of Mobile Robots in Dynamic Rings*. In *ICDCN'18: PROCEEDINGS OF THE 19TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING AND NETWORKING*, 2018., Registrované v: WOS
2. [1.1] ILCINKAS, David - WADE, Ahmed M. *Exploration of the T-Interval-Connected Dynamic Graphs: the Case of the Ring*. In *THEORY OF COMPUTING SYSTEMS*. ISSN 1432-4350, 2018, vol. 62, no. 5, p. 1144-1160., Registrované v: WOS

ADMB05 DOBREV, Stefan - KRANAKIS, E. - KRIZANC, D. - LAFOND, Manuel - MAŇUCH, Ján - NARAYANAN, Lata - OPATRYN, Jaroslav - SHENDE, Sunil - STACHO, Ladislav. *Weak coverage of a rectangular barrier*. In *Lecture Notes in Computer Science : Algorithms and Complexity*, 2017, vol. 10236, p. 196-208. (2016: 0.339 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na internete: <https://link.springer.com/content/pdf/10.1007%2F978-3-319-57586-5_17.pdf>.

Citácie:

1. [1.1] KAPELKO, Rafal. *On the Maximum Movement of Random Sensors for Coverage and Interference on a Line*. In *ICDCN'18: PROCEEDINGS OF THE 19TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING AND NETWORKING*, 2018., Registrované v: WOS
2. [1.1] KAPELKO, Rafal. *On the maximum movement to the power of random sensors for coverage and interference*. In *PERVASIVE AND MOBILE COMPUTING*. ISSN 1574-1192, 2018, vol. 51, no., p. 174-192., Registrované v: WOS
3. [1.1] ZHANG, Xiao - FAN, Haosheng - LEE, Victor C. S. - LI, Minming - ZHAO, Yingchao - LIU, Chuang. *Minimizing the total cost of barrier coverage in a linear domain*. In *JOURNAL OF COMBINATORIAL OPTIMIZATION*. ISSN 1382-6905, 2018, vol. 36, no. 2, p. 434-457., Registrované v: WOS

ADMB06 FRÍČ, Roman - PAPČO, Martin. *Upgrading probability via fractions of events*. In *Communications in Mathematics*, 2016, vol. 24, no. 1, p. 29-41. ISSN 1804-1388.

Citácie:

1. [2.2] BABICOVÁ, Dušana. *Probability integral as a linearization*. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, p. 1-15., Registrované v: SCOPUS

ADMB07 HOLÁ, Ľubica - ZSILINSZKY, László. *Completeness and related properties of the graph topology*. In *Topology Proceedings*, 2015, vol. 46, p. 1-14. (2014: 0.480 - SJR). ISSN 0146-4124. Dostupné na internete: <<http://topology.auburn.edu/tp/reprints/v46/tp46001p1.pdf>>.

Citácie:

1. [3.1] McCOY, Robert A. - KUNDU, Subiman - JINDAL, Varun. *Function Spaces with Uniform, Fine and Graph Topologies*. Cham: Springer, 2018. 106 p. ISBN 978-3-319-77053-6.

ADMB08 JENČOVÁ, Anna. *Linearization conditions for regression models with unknown variance parameter*. In *Applications of Mathematics*, 2000, vol. 45, no. 2, p. 145-160. ISSN 0862-7940.

Citácie:

1. [1.1] PINKOVETSKAIA, Iuliia - KISELEVA, Olga. *SMEs in Regions of Russia: Workers Salary*. In *TARIH KULTUR VE SANAT ARASTIRMALARI DERGISI-JOURNAL OF HISTORY CULTURE AND ART RESEARCH*. ISSN 2147-0626, 2018, vol. 7, no. 2, pp. 101-112., Registrované v: WOS

- ADMB09 JENČOVÁ, Anna. Comparison of quantum channels and statistical experiments. In IEEE International Symposium on Information Theory, 2016, vol., p. 2249-2253. (2015: 0.662 - SJR). (2016 - SCOPUS). ISSN 2157-8117.
Citácie:
1. [1.1] *GOUR, Gilad - JENNINGS, David - BUSCEMI, Francesco - DUAN, Runyao - MARVIAN, Iman*. Quantum majorization and a complete set of entropic conditions for quantum thermodynamics. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.2] *BUSCEMI, Francesco*. Comparison of noisy channels and reverse data-processing theorems. In *IEEE International Symposium on Information Theory Proceedings*. ISSN 21578095, 2018-01-31, 2018-January, pp. 489-493., Registrované v: SCOPUS
3. [1.2] *BUSCEMI, Francesco*. Reverse Data-Processing Theorems and Computational Second Laws. In *Springer Proceedings in Mathematics and Statistics*. ISSN 21941009, 2018-01-01, 261, pp. 135-159., Registrované v: SCOPUS
- ADMB10 JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - ŠEBEJ, Juraj. Operations on unambiguous finite automata. In *Lecture Notes in Computer Science : Developments in Language Theory*. - Heidelberg : Springer, 2016, vol. 9840, p. 243-255. (2015: 0.328 - SJR, Q2 - SJR). ISSN 0302-9743.
Citácie:
1. [1.2] *RASKIN, Mikhail*. A superpolynomial lower bound for the size of non-deterministic complement of an unambiguous automaton. In *Leibniz International Proceedings in Informatics, LIPIcs*. ISSN 18688969, 2018, vol. 107., Registrované v: SCOPUS
- ADMB11 MEDVEĎ, Milan - POSPÍŠIL, Michal. Representation of solutions of systems of linear differential equations with multiple delays and linear parts given by nonpermutable matrices. In *Journal of Mathematical Sciences*, 2018, vol. 228, no. 3, p. 276-289. (2017: 0.304 - SJR, Q3 - SJR). ISSN 1072-3374.
Citácie:
1. [1.1] *MAHMUDOV, N*. Representation of solutions of discrete linear delay systems with non permutable matrices. In *APPLIED MATHEMATICS LETTERS*. ISSN 0893-9659, 2018, vol. 85, no., pp. 8-14., Registrované v: WOS
- ADMB12 OLEJNIK, F. - AWREJCIEWICZ, Jan - FEČKAN, Michal. An approximation method for the numerical solution of planar discontinuous dynamical systems with stick-slip friction. In *Applied Mathematical Sciences*, 2014, vol. 8, no. 145, p. 7213-7238. ISSN 0066-5452.
Citácie:
1. [1.1] *LIN, D. C. - OGUAMANAM, D. C. D*. A numerical study of the dynamics of three-mass system on frictional tracks. In *NONLINEAR DYNAMICS*. ISSN 0924-090X, 2018, vol. 94, no. 3, p. 2047-2058., Registrované v: WOS
- ADMB13 PÓCS, Jozef - PÓCSOVÁ, J. Bipolarized extension of heterogeneous concept lattices. In *Applied Mathematical Sciences*, 2014, vol. 8, no. 128, p. 6359-6365. ISSN 1312-885X.
Citácie:
1. [1.1] *BUTKA, Peter - SMATANA, Miroslav - NOVOTNA, Veronika*. Interactive Visualization of Query Results Set from Information Retrieval Using Concept Lattices. In *INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY, PT I*. ISSN 2194-5357, 2018, vol. 655, p. 128-137., Registrované v: WOS

2. [1.1] PAIVA, Rui - SANTIAGO, Regivan - BEDREGAL, Benjamin - RIVIECCIO, Umberto. *naBL-algebras based on overlaps and their conjugates*. In *2018 IEEE INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS (FUZZ-IEEE)*. ISSN 1098-7584, 2018., Registrované v: WOS
- ADMB14 POSPÍŠIL, Michal - DIBLIK, J. - FEČKAN, Michal. On relative controllability of delayed difference equations with multiple control functions. In *AIP Conference Proceedings*, 2015, vol. 1648, art. no. UNSP 130001. (2014: 0.165 - SJR). (2015 - WOS, SCOPUS). ISSN 0094-243X.
Citácie:
1. [1.1] CAO, Xiaokai - WANG, JinRong. *Finite-time stability of a class of oscillating systems with two delays*. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 13, p. 4943-4954., Registrované v: WOS
2. [1.1] LI, Mengmeng - DEBBOUCHE, Amar - WANG, JinRong. *Relative controllability in fractional differential equations with pure delay*. In *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*. ISSN 0170-4214, 2018, vol. 41, no. 18, pp. 8906-8914., Registrované v: WOS
3. [1.1] LI, Mengmeng - WANG, JinRong. *Exploring delayed Mittag-Leffler type matrix functions to study finite time stability of fractional delay differential equations*. In *APPLIED MATHEMATICS AND COMPUTATION*. ISSN 0096-3003, 2018, vol. 324, p. 254-265., Registrované v: WOS
- ADMB15 SCHWARZ, Štefan. Powers of subsets in a finite semigroup. In *Semigroup forum*, 1995, vol. 51, no. 1, p. 1-22. ISSN 0037-1912.
Citácie:
1. [2.1] PORUBSKY, Štefan. *IDEMPOTENTS, GROUP MEMBERSHIP AND THEIR APPLICATIONS*. In *MATHEMATICA SLOVACA*. ISSN 0139-9918, 2018, vol. 68, no. 6, p. 1231-1312., Registrované v: WOS
- ADMB16 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Fractional order iterative functional differential equations with parameter. In *Applied Mathematical Modelling*, 2013, vol. 37, no. 8, p. 6055-6067.
Citácie:
1. [1.1] BOYADZHIEV, D. - KISKINOV, H. - ZAHARIEV, A. *Integral representation of solutions of fractional system with distributed delays*. In *INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS*. ISSN 1065-2469, 2018, vol. 29, no. 9, p. 725-744., Registrované v: WOS
2. [1.1] KILICMAN, Adem - DAMAG, F. H. M. *Some Solution of the Fractional Iterative Integro-Differential Equations*. In *MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES*. ISSN 1823-8343, 2018, vol. 12, no. 1, p. 121-141., Registrované v: WOS
- ADMB17 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. Nonexistence of periodic solutions and asymptotically periodic solutions for fractional differential equations. In *Communications in Nonlinear Science and Numerical Simulation*, 2013, vol. 18, no. 2, p. 246-256.
Citácie:
1. [1.1] CERMAK, Jan - NECHVATAL, Ludek. *Local Bifurcations and Chaos in the Fractional Rossler System*. In *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*. ISSN 0218-1274, 2018, vol. 28, no. 8, art. no. 1850098., Registrované v: WOS
2. [1.1] EDELMAN, Mark. *On stability of fixed points and chaos in fractional systems*. In *CHAOS*. ISSN 1054-1500, 2018, vol. 28, no. 2, art. no. 023112., Registrované v: WOS

3. [1.1] ZHOU, Fengyan - MA, Chengrong. Mittag-Leffler Stability and Global Asymptotically omega-Periodicity of Fractional-Order BAM Neural Networks with Time-Varying Delays. In *NEURAL PROCESSING LETTERS*. ISSN 1370-4621, 2018, vol. 47, no. 1, p. 71-98., Registrované v: WOS
- ADMB18 WANG, JinRong - FEČKAN, Michal - ZHOU, Yong. On the stability of first order impulsive evolution equations. In *Opuscula Mathematica*, 2014, vol. 34, no. 3, p. 639-657. (2013: 0.159 - SJR). ISSN 1232-9274.
Citácie:
1. [1.1] ZADA, Akbar - SHAH, Syed Omar - ISMAIL, Samreen - LI, Tongxing. Hyers-Ulam Stability in Terms of Dichotomy of First Order Linear Dynamic Systems. In *PUNJAB UNIVERSITY JOURNAL OF MATHEMATICS*. ISSN 1016-2526, 2017, vol. 49, no. 3, p. 37-47., Registrované v: WOS
2. [1.1] ZADA, Akbar - SHAH, Syed Omar. Hyers-Ulam stability of first-order non-linear delay differential equations with fractional integrable impulses. In *HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS*. ISSN 1303-5010, 2018, vol. 47, no. 5, p. 1196-1205., Registrované v: WOS
- ADMB19 WIMMER, Gejza - WITKOVSKÝ, Viktor - ALTMANN, G. Modification of probability distributions Applied to word length research. In *Journal of Quantitative Linguistics*, 1999, vol. 6, p. 257-268. (1999 - SCOPUS). ISSN 0929-6174.
Citácie:
1. [3.1] CHEN, Heng. Comparison of Word Length Distributions in Spoken and Written Chinese. In *OPEN ACCESS LIBRARY JOURNAL*. ISSN 2333-9705, 2018, vol. 5, e4660.

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

- ADNA01 BORSÍK, Ján - HOLOS, J. Some properties of porouscontinuous functions. In *Mathematica Slovaca*, 2014, vol. 64, p. 741-750. (2013: 0.451 - IF, 0.284 - SJR). (2014 - WOS). ISSN 0139-9918.
Citácie:
1. [1.1] KOWALCZYK, Stanislaw - TUROWSKA, Malgorzata. Topologies generated by porosity and maximal additive and multiplicative families for porouscontinuous functions. In *TOPOLOGY AND ITS APPLICATIONS*. ISSN 0166-8641, 2018, vol. 239, p. 1-13., Registrované v: WOS
- ADNA02 FRIČ, Roman. On D-posets of fuzzy sets. In *Mathematica Slovaca*, 2014, vol. 64, no. 3, s. 545-554. (2013: 0.451 - IF, 0.284 - SJR). (2014 - WOS). ISSN 0139-9918.
Citácie:
1. [1.1] MARKECHOVA, Dagmar - MOSAPOUR, Batool - EBRAHIMZADEH, Abolfazl. R-Norm Entropy and R-Norm Divergence in Fuzzy Probability Spaces. In *ENTROPY*. ISSN 1099-4300, 2018, vol. 20, no. 4, Registrované v: WOS
2. [2.2] BABICOVÁ, Dušana. Probability integral as a linearization. In *Tatra Mountains Mathematical Publications*. ISSN 12103195, 2018-12-01, 72, 1, pp. 1-15., Registrované v: SCOPUS
- ADNA03 HOLÁ, Ľubica - HOLÝ, Dušan. Spaces of lower semicontinuous set-valued maps. In *Mathematica Slovaca*, 2013, vol. 63, p. 863-870. (2012: 0.394 - IF, 0.443 - SJR). ISSN 0139-9918.
Citácie:
1. [3.1] McCOY, Robert A. - KUNDU, Subiman - JINDAL, Varun. *Function Spaces with Uniform, Fine and Graph Topologies*. Cham: Springer, 2018. 106 p. ISBN 978-3-319-77053-6.

- ADNA04 JAKUBÍKOVÁ-STUDENOVSKÁ, D. - PÓCS, Jozef. Some properties of retract lattices of monounary algebras. In *Mathematica Slovaca*, 2012, vol. 62, no. 2, p. 169-186. (2011: 0.269 - IF, 0.385 - SJR). ISSN 0139-9918.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
- ADNA05 JAKUBÍKOVÁ-STUDENOVSKÁ, D. - PÓCS, Jozef. On finite retract lattices of monounary algebras. In *Mathematica Slovaca*, 2012, vol. 62, no. 2, p. 187-200. (2011: 0.269 - IF, 0.385 - SJR). ISSN 0139-9918.
Citácie:
1. [1.1] HALUSKOVA, Emilia. MONOUNARY ALGEBRAS WITH EASY DIRECT LIMITS. In *MISKOLC MATHEMATICAL NOTES*. ISSN 1787-2405, 2018, vol. 19, no. 1, p. 291-302., Registrované v: WOS
- ADNA06 LIU, Shengda - WANG, JinRong - ZHOU, Yong - FEČKAN, Michal. Iterative learning control with pulse compensation for fractional differential systems. In *Mathematica Slovaca*, 2018, vol. 68, no. 3, p. 563-574. (2017: 0.314 - IF, Q4 - JCR, 0.339 - SJR, Q3 - SJR). (2018 - WOS, SCOPUS). ISSN 0139-9918.
Citácie:
1. [1.1] ZHAO, Jing - JIANG, Sen - XIE, Fei - HE, Zhen - FU, Jian. A Novel Nonlinear Fault Tolerant Control for Manipulator under Actuator Fault. In *MATHEMATICAL PROBLEMS IN ENGINEERING*. ISSN 1024-123X, 2018, art. no. 5198615., Registrované v: WOS
- ADNA07 PÓCS, Jozef. A note on the convexity of lattices generated by the set of nonnegative integers. In *Mathematica Slovaca*, 2014, vol. 64, no. 3, p. 555-562. (2013: 0.451 - IF, 0.284 - SJR). (2014 - WOS). ISSN 0139-9918.
Citácie:
1. [1.1] CERNEGOVA, Miroslava - JAKUBIKOVA-STUDENOVSKA, Danica. The lattice of convexities of partial monounary algebras. In *ALGEBRA UNIVERSALIS*. ISSN 0002-5240, 2018, vol. 79, no. 1, art. no. 10., Registrované v: WOS
- ADNA08 WANG, JinRong - DENG, JianHua - FEČKAN, Michal. Exploring s-e-condition and applications to some Ostrowski type inequalities via Hadamard fractional integrals. JinRong Wang, JianHua Deng, Michal Fečkan. In *Mathematica Slovaca*, 2014, vol. 64, no. 6, p. 1381-1396. (2013: 0.451 - IF, 0.284 - SJR). (2014 - WOS). ISSN 0139-9918.
Citácie:
1. [1.1] HWANG, Shiow-Ru - TSENG, Kuei-Lin. New Hermite-Hadamard-type inequalities for fractional integrals and their applications. In *REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS*. ISSN 1578-7303, 2018, vol. 112, no. 4, p. 1211-1223., Registrované v: WOS

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

- ADNB01 SEDLIAK, Anton - ŽÁČIK, Tibor. Optimization of the gas transport in pipeline systems. In *Tatra Mountains Mathematical Publications*, 2016, vol. 66, p. 103-120. (2015: 0.227 - SJR, Q4 - SJR). ISSN 1210-3195.

Citácie:

1. [1.2] *TRUJILLO, Emilio Sampayo - DE LA MOTA, Idalia Flores. State of the art for the optimization and simulation of the distribution of hydrocarbons. In 30th European Modeling and Simulation Symposium, EMSS 2018, 2018-01-01, p. 81-90., Registrované v: SCOPUS*

ADNB02 STRAUCH, Oto. Distribution functions of ratio sequences. An expository paper. In Tatra Mountains Mathematical Publications, 2015, vol. 64, p. 133-185. (2014: 0.206 - SJR, Q4 - SJR). (2015 - SCOPUS). ISSN 1210-3195. Dostupné na internete: <<https://www.sav.sk/journals/uploads/0205125609Strauc.pdf>>.

Citácie:

1. [1.1] *BUKOR, Jozsef - CSIBA, Peter. Best bounds for dispersion of ratio block sequences for certain subsets of integers. In ANNALES MATHEMATICAE ET INFORMATICA. ISSN 1787-5021, 2018, vol. 49, p. 55-60., Registrované v: WOS*

ADNB03 STRAUCH, Oto. Unsolved Problems. In Tatra Mountains Mathematical Publications, 2013, vol. 56, s. 109-229. (2012: 0.174 - SJR). (2013 - WOS, SCOPUS). ISSN 1210-3195.

Citácie:

1. [3.1] *JASAK, Z. Benfords Law and Sum Invariance Testing. In Avdakovic S. (eds) Advanced Technologies, Systems and Applications III. IAT 2018 Lecture Notes in Networks and Systems, Springer, Cham, November 2018, ISBN (print) 9783030025731, ISBN (online) 9783030025748, Vol. 59, p. 13-21.*

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

AEC01 BEČKA, Martin - OKŠA, Gabriel. Parallel one-sided Jacobi SVD algorithm with variable blocking factor. In LNCS 8384. - Springer Verlag, 2013, s. 57-66. ISBN 978-3-642-55223-6.

Citácie:

1. [1.1] *KUDO, Shuhei - YAMAMOTO, Yusaku. On Using the Cholesky QR Method in the Full-Blocked One-Sided Jacobi Algorithm. In PARALLEL PROCESSING AND APPLIED MATHEMATICS (PPAM 2017), PT I. ISSN 0302-9743, 2018, vol. 10777, no., p. 612-622., Registrované v: WOS*

AEC02 BOSÁK, Juraj. The graphs of semigroups. In Theory of Graphs and its Applications. - 1964, s. 119-125.

Citácie:

1. [1.1] *ABOONAHIGIR, Elham - IRANMANESH, Ali. Some Results of the Normal Intersection Graph of a Group. In COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS. ISSN 0976-5905, 2018, vol. 9, no. 2, p. 127-137., Registrované v: WOS*

2. [1.1] *DELFAN, A. - RASOULI, H. - TEHRANIAN, A. A NEW CLASS OF WEAKLY PERFECT GRAPHS ATTACHED TO S-ACTS. In JP JOURNAL OF ALGEBRA NUMBER THEORY AND APPLICATIONS. ISSN 0972-5555, 2018, vol. 40, no. 5, p. 775-785., Registrované v: WOS*

3. [1.1] *DELFAN, Abdolhossein - RASOULI, Hamid - TEHRANIAN, Abolfazl. On the inclusion graphs of S-acts. In JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE-JMCS. ISSN 2008-949X, 2018, vol. 18, no. 3, p. 357-363., Registrované v: WOS*

4. [1.1] DEVHARE, Sarika - JOSHI, Vinayak - LAGRANGE, John. ON THE COMPLEMENT OF THE ZERO-DIVISOR GRAPH OF A PARTIALLY ORDERED SET. In BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY. ISSN 0004-9727, 2018, vol. 97, no. 2, p. 185-193., Registrované v: WOS
 5. [1.1] KAYACAN, Selcuk. DOMINATING SETS IN INTERSECTION GRAPHS OF FINITE GROUPS. In ROCKY MOUNTAIN JOURNAL OF MATHEMATICS. ISSN 0035-7596, 2018, vol. 48, no. 7, p. 2311-2335., Registrované v: WOS
 6. [1.1] MAHDAVI, Lotf Ali - TALEBI, Yahya. Some results on the co-intersection graph of submodules of a module. In COMMENTATIONES MATHEMATICAE UNIVERSITATIS CAROLINAE. ISSN 0010-2628, 2018, vol. 59, no. 1, p. 15-24., Registrované v: WOS
- AEC03 BRZOZOWSKI, J. - JIRÁSKOVÁ, Galina - LI, B. Quotient complexity of ideal languages. In Lecture Notes in Computer Science, Vol. 6034. - Berlin : Springer, 2010, s. 208-211. ISBN 978-3-642-16065-3.
Citácie:
1. [1.1] NG, Timothy - RAPPAPORT, David - SALOMAA, Kai. State Complexity of Neighbourhoods and Approximate Pattern Matching. In INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE. ISSN 0129-0541, 2018, vol. 29, no. 2, p. 315-329., Registrované v: WOS
- AEC04 BRZOZOWSKI, J. - JIRÁSKOVÁ, Galina - ZOU, Ch. Quotient complexity of closed languages. In Lecture Notes in Computer Science, Vol. 6072. - Berlin : Springer, 2010, s. 84-95. ISBN 978-3-642-16065-3.
Citácie:
1. [1.1] STUDNIA, Ivan - ALATA, Eric - NICOMETTE, Vincent - KAANICHE, Mohamed - LAAROUCHI, Youssef. A language-based intrusion detection approach for automotive embedded networks. In INTERNATIONAL JOURNAL OF EMBEDDED SYSTEMS. ISSN 1741-1068, 2018, vol. 10, no. 1, p. 1-12., Registrované v: WOS
- AEC05 CMORIK, Roland - JIRÁSKOVÁ, Galina. Basic operations on binary suffix-free languages. In Lecture Notes in Computer Science, vol. 7119. - Heidelberg : Springer, 2012, s. 94-102.
Citácie:
1. [1.2] BRZOZOWSKI, Janusz A. Towards a theory of complexity of regular languages. In Journal of Automata, Languages and Combinatorics. ISSN 1430189X, 2018-01-01, 23, 1-3, p. 67-101., Registrované v: SCOPUS
- AEC06 CZYZOWICZ, J. - DOBREV, Stefan - FEVENS, T. - GONZÁLES-AGUILAR, H. - KRANAKIS, E. - OPATRYN, J. - URRUTIA, J. Local algorithms for dominating and connected dominating sets of unit disk graphs with location aware nodes. J. Czyzowicz, S. Dobrev, T. Fevens, H. Gonzáles-Aguilar, E. Kranakis, J. Opatryny, J. Urrutia. In LATIN 2008, Vol. 4957. - Springer, 2008, s. 158-169. ISBN 978-3-540-78772-3.
Citácie:
1. [1.1] ABU-KHZAM, Faisal N. - MARKARIAN, Christine - HEIDE, Friedhelm Meyer auf der - SCHUBERT, Michael. Approximation and Heuristic Algorithms for Computing Backbones in Asymmetric Ad-hoc Networks. In THEORY OF COMPUTING SYSTEMS. ISSN 1432-4350, 2018, vol. 62, no. 8, p. 1673-1689., Registrované v: WOS
- AEC07 ČEVOROVÁ, Kristína. Kleene star on unary regular languages. In Lecture Notes in Computer Science, Descriptive Complexity of Formal Systems, Vol. 8031. - Berlin Heidelberg : Springer, 2013, s. 277-288. ISBN 978-3-642-39309-9.

Citácie:

1. [1.2] *HOSPODÁR, Michal - JIRÁSKOVÁ, Galina - KRAJŇÁKOVÁ, Ivana. Operations on boolean and alternating finite automata. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2018-01-01, 10846 LNCS, p. 181-193., Registrované v: SCOPUS*

- AEC08 DANČÍK, Vladimír - ADDONA, Theresa A. - CLAUSER, Karl R. - VATH, James E. De Novo peptide sequencing via tandem mass spectrometry: a graph-theoretical approach. In Proceedings of the third annual international conference on Computational molecular biology, 1999, doiB.1145/299432.299471, s. 135-144. ISSN 1-58113-069-4.

Citácie:

1. [1.1] *LEWIS, Nicole H. - HITCHCOCK, David B. - DRYDEN, Ian L. - ROSE, John R. Peptide refinement by using a stochastic search. In JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS. ISSN 0035-9254, 2018, vol. 67, no. 5, p. 1207-1236., Registrované v: WOS*

- AEC09 DJIDJEV, H. - VRŤO, Imrich. An Improved Lower Bound for Crossing Numbers. In Lecture Notes in Computer Science Volume 2265. - SRN : Springer, 2002, s. 96-101. ISSN 0302-9743.

Citácie:

1. [1.2] *PACH, János. Geometric graph theory. In Handbook of Discrete and Computational Geometry, Third Edition, 2017, p. 257-279., Registrované v: SCOPUS*

- AEC10 DOBREV, Stefan - KRÁLOVIČ, R. - PARDUBSKÁ, D. How much information about the future is needed? In SOFSEM 2008: Theory and Practice of Computer Science, Vol. 4910. - Heidelberg : Springer, 2008. ISBN 978-3-540-77565-2.

Citácie:

1. [1.1] *ANGELOPOULOS, Spyros - DURR, Christoph - KAMALI, Shahin - RENAULT, Marc P. - ROSEN, Adi. Online Bin Packing with Advice of Small Size. In THEORY OF COMPUTING SYSTEMS. ISSN 1432-4350, 2018, vol. 62, no. 8, p. 2006-2034., Registrované v: WOS*

2. [1.1] *BARRIERE, Lali - MUNOZ, Xavier - FUCHS, Janosch - UNGER, Walter. Online Matching in Regular Bipartite Graphs. In PARALLEL PROCESSING LETTERS. ISSN 0129-6264, 2018, vol. 28, no. 2., Registrované v: WOS*

- AEC11 FERTIN, G. - RASPAUD, A. - SCHRODER, H. - SÝKORA, O. - VRŤO, Imrich. Diameter of the Knoedel graph. In Graph-Theoretic Concepts in Computer Science : 26th International Workshop, WG 2000 Konstanz, Germany, June 15-17, 2000 Proceedings. Eds. U Brandes, D. Wagner. - Berlin : Springer, 1994, s. 149-160. ISBN 978-3-540-41183-3. ISSN 0302-9743.

Citácie:

1. [1.1] *ZHANG, Sijia - XU, Xirong - YIN, Chun - HUANG, Yazhen - YANG, Yuansheng. The Feedback Number of Knoedel graph $W-3, W-n$. In ARS COMBINATORIA. ISSN 0381-7032, 2018, vol. 140, p. 397-409., Registrované v: WOS*

- AEC12 FULEK, R. - HONGMEI, H.E. - SÝKORA, O. - VRŤO, Imrich. Outerplanar crossing numbers of 3-row meshes, Halin graphs and complete p-partite graphs. In Lecture Notes in Computer Science, Vol. 3381. - Springer, 2005, s. 371-374. ISBN 978-3-540-24302-1.

Citácie:

1. [1.2] KOBAYASHI, Yasuaki - OHTSUKA, Hiromu - TAMAKI, Hisao. *An improved fixed-parameter algorithm for one-page crossing minimization*. In *Leibniz International Proceedings in Informatics, LIPIcs*. ISSN 18688969, 2018, vol. 89., Registrované v: SCOPUS
 2. [1.2] SCHAEFER, Marcus. *The graph crossing number and its variants: A survey*. In *Electronic Journal of Combinatorics*, 2018, vol. 1, dynamicSurveys, art. no. DS21., Registrované v: SCOPUS
- AEC13 GRENDÁR JR., Marián - GRENDÁR, M. Maximum entropy and maximum probability methods: Bayesian interpretation. In 23rd International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering. Vol. 707. Editors G. Erickson, Y. Zhai. - Melville, NY, USA : AIP, 2004, p. 490-494. ISBN 0-7354-0182-9.
- Citácie:
1. [1.1] BICKEL, David R. *Bayesian revision of a prior given prior-data conflict, expert opinion, or a similar insight: a large-deviation approach*. In *STATISTICS*. ISSN 0233-1888, 2018, vol. 52, no. 3, p. 552-570., Registrované v: WOS
- AEC14 HRICKO, M. - JIRÁSKOVÁ, Galina - SZABARI, A. Union and intersection of regular languages and descriptive complexity. In Proc. 7th Workshop Descriptive Complexity of Formal Systems. - Milano : University of Milano, 2005, s. 170-181.
- Citácie:
1. [1.2] HOSPODÁR, Michal - HOLZER, Markus. *The ranges of accepting state complexities of languages resulting from some operations*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 10977 LNCS, p. 198-210., Registrované v: SCOPUS
- AEC15 JIRÁSKOVÁ, Galina - NAGY, B. On union-free and deterministic union-free languages. In Theoretical Computer Science: 7th IFIP TC 1/WG 2.2 International Conference, TCS 2012, Amsterdam, The Netherlands, September 26-28, 2012. Proceedings. Lecture Notes in Computer Science, vol. 7604. - Heidelberg : Springer, 2012, p. 179-192. ISBN 978-3-642-33474-0.
- Citácie:
1. [1.2] BRZOZOWSKI, Janusz A. - DAVIES, Sylvie. *Most complex deterministic union-free regular languages*. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. ISSN 03029743, 2018, vol. 10952 LNCS, p. 37-48., Registrované v: SCOPUS
- AEC16 JIRÁSKOVÁ, Galina. On the state complexity of complements, stars, and reversals of regular languages. In *Lecture Notes in Computer Science*, Vol. 5257. - Heidelberg : Springer, 2008, s. 431-442. ISBN 978-3-540-85779-2. ISSN 0302-9743.
- Citácie:
1. [1.1] EBRAHIMNEJAD, Farzam. *On the gap between separating words and separating their reversals*. In *THEORETICAL COMPUTER SCIENCE*. ISSN 0304-3975, 2018, vol. 711, p. 79-91., Registrované v: WOS
- AEC17 JIRÁSKOVÁ, Galina - OKHOTIN, A. On the state complexity of operations on two-way finite automata. In *Lecture Notes in Computer Science*, Vol. 5257. - Heidelberg : Springer, 2008, s. 443-454. ISBN 978-3-540-85779-2. ISSN 0302-9743.

Citácie:

1. [1.1] KUTRIB, Martin - MALCHER, Andreas. *Cellular Automata: Descriptive Complexity and Decidability*. In *REVERSIBILITY AND UNIVERSALITY: ESSAYS PRESENTED TO KENICHI MORITA ON THE OCCASION OF HIS 70TH BIRTHDAY*. ISSN 2194-7287, 2018, vol. 30, no., p. 129-168., Registrované v: WOS
- AEC18 KOREC, Ivan. Real-time generation of primes by a one-dimensional cellular automaton with 11 states. In *Proceedings Mathematical Foundations of Computer Science 1997, 22nd Int. Symposium, Lecture Notes in Computer Science 1295*. - Berlin : Springer, 1997, s. 358-367. ISBN 978-3-540-63437-9.
- Citácie:
1. [1.1] MARCOVICI, Irene - STOLL, Thomas - TAHAY, Pierre-Adrien. *Construction of Some Nonautomatic Sequences by Cellular Automata*. In *CELLULAR AUTOMATA AND DISCRETE COMPLEX SYSTEMS, AUTOMATA 2018*. ISSN 0302-9743, 2018, vol. 10875, p. 113-126., Registrované v: WOS
- AEC19 NEDELA, Roman. Regular maps-combinatorial objects relating different fields of mathematics. In *Proceedings of Com2Mac Mini-Workshop on Hurwitz Theory and Ramifications*. - Korea : Pohang University of Science and Technology, 2003, s. 333-360.
- Citácie:
1. [1.1] KWON, Young Soo. *Classification of Regular Embeddings of Complete Multipartite Graphs*. In *JOURNAL OF GRAPH THEORY*. ISSN 0364-9024, 2018, vol. 87, no. 1, p. 5-17., Registrované v: WOS
- AEC20 RIEČAN, Beloslav - KRÁL, P. Probability on interval valued events. In *Proc. of the eleventh International Workshop on Generalized Nets and the Second International Workshop on Generalized Nets, Intuitionistic Fuzzy Sets and Knowledge Engineering*. - London, 2010, s. 43-47.
- Citácie:
1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events*. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS
- AEC21 RIEČAN, Beloslav - LAŠOVÁ, L. On the probability theory on the Kopka D-posets. In *Developments in Fuzzy Sets, Generalized Nets and Related Topics. Volume 1 : Foundation*. - Warsaw, 2010, s. 167-176. ISBN 978-83-60434-52-9.
- Citácie:
1. [1.1] KLUVANCOVA, Daniela. *On the Conditional Expectation on Kopka's D-posets*. In *UNCERTAINTY AND IMPRECISION IN DECISION MAKING AND DECISION SUPPORT: CROSS-FERTILIZATION, NEW MODELS, AND APPLICATIONS*. ISSN 2194-5357, 2018, vol. 559, no., pp. 22-29., Registrované v: WOS
- AEC22 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.
- Citácie:
1. [1.1] COUSO, Ines - BUSTINCE, Humberto. *Three Categories of Set-Valued Generalizations From Fuzzy Sets to Interval-Valued and Atanassov Intuitionistic Fuzzy Sets*. In *IEEE TRANSACTIONS ON FUZZY SYSTEMS*. ISSN 1063-6706, 2018, vol. 26, no. 5, pp. 3112-3121., Registrované v: WOS

- AEC23 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.
- Citácie:
1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS
- AEC24 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.
- Citácie:
1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. On central limit theorems for IV-events. In *SOFT COMPUTING*. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS
- AEC25 ROSA, Alexander. On certain valuations of the vertices of a graph. In Theory of Graphs, International Symposium, ICC Rome. - Paris : Dunod-Gordon and Breach, 1967, s. 349-355.
- Citácie:
1. [1.1] AB GHANI, Ahmad Termimi - KUAN, Yoong Kooi. A Graceful Labeling of Symmetrical bi-Seesaw Caterpillar. In *PROCEEDING OF THE 25TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES (SKSM25): MATHEMATICAL SCIENCES AS THE CORE OF INTELLECTUAL EXCELLENCE*. ISSN 0094-243X, 2018, vol. 1974, no., pp., Registrované v: WOS
 2. [1.1] BHOUMIK, Soumya - MITRA, Sarbari. On k-graceful labeling of pendant edge extension of complete bipartite graphs. In *ALGEBRA & DISCRETE MATHEMATICS*. ISSN 1726-3255, 2018, vol. 25, no. 2, pp. 188-199., Registrované v: WOS
 3. [1.1] BUNGE, Ryan C. - EL-ZANATI, Saad - JEFFRIES, Joel - VANDEN EYNDEN, Charles. Edge orbits and cyclic and r-pyramidal decompositions of complete uniform hypergraphs. In *DISCRETE MATHEMATICS*. ISSN 0012-365X, 2018, vol. 341, no. 12, pp. 3348-3354., Registrované v: WOS
 4. [1.1] DAOUD, S. N. - ELSAWY, Ahmed N. Edge even graceful labelling of some book graphs. In *JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE*. ISSN 1658-3655, 2018, vol. 12, no. 3, pp. 315-330., Registrované v: WOS
 5. [1.1] EL-ZANATI, Saad I. - JONGTHAWONWUTH, Uthoomporn - JORDON, Heather - VANDEN EYNDEN, Charles. Decomposing the complete graph and the complete graph minus a 1-factor into copies of a graph G where G is the union of two disjoint cycles. In *EUROPEAN JOURNAL OF COMBINATORICS*. ISSN 0195-6698, 2018, vol. 68, no., pp. 120-131., Registrované v: WOS
 6. [1.1] FU, Chin-Mei - HSU, Yu-Fong - LI, Ming-Feng. New Results on Graceful Unicyclic Graphs. In *ARS COMBINATORIA*. ISSN 0381-7032, 2018, vol. 137, no., pp. 273-282., Registrované v: WOS
 7. [1.1] GHOSH, Shamik. On certain classes of graceful lobsters. In *ARS COMBINATORIA*. ISSN 0381-7032, 2018, vol. 136, no., pp. 67-96., Registrované v: WOS
 8. [1.1] GODINHO, Aloysius - SINGH, Tarkeshwar - ARUMUGAM, S. THE DISTANCE MAGIC INDEX OF A GRAPH. In *DISCUSSIONES MATHEMATICAE GRAPH THEORY*. ISSN 1234-3099, 2018, vol. 38, no. 1, pp. 135-142., Registrované v: WOS

9. [1.1] HEFNAWY, A. I. - ELSID, E. A. - TALLAH, S. Euat. Cordial Labeling for the Sum and Union of the Second Power of Paths and Stars. In UTILITAS MATHEMATICA. ISSN 0315-3681, 2018, vol. 108, no., pp. 283-291.,
Registrované v: WOS
10. [1.1] ICHISHIMA, Rikio - LOPEZ, Susana-Clara - MUNTANER-BATLE, Francesc Antoni - OSHIMA, Akito. ON THE BETA-NUMBER OF FORESTS WITH ISOMORPHIC COMPONENTS. In DISCUSSIONES MATHEMATICAE GRAPH THEORY. ISSN 1234-3099, 2018, vol. 38, no. 3, pp. 683-701.,
Registrované v: WOS
11. [1.1] ICHISHIMA, Rikio - OSHIMA, Akito. BOUNDS FOR THE GAMMA-NUMBER OF GRAPHS. In UTILITAS MATHEMATICA. ISSN 0315-3681, 2018, vol. 109, no., pp. 313-325., *Registrované v: WOS*
12. [1.1] ICHISHIMA, Rikio - OSHIMA, Akito. On the beta-number of linear forests with an even number of components. In AKCE INTERNATIONAL JOURNAL OF GRAPHS AND COMBINATORICS. ISSN 0972-8600, 2018, vol. 15, no. 3, pp. 238-241., *Registrované v: WOS*
13. [1.1] MIAO, Xinlin - ZANG, Bilian - WANG, Jinhua. A NOTE ON alpha-LABELINGS OF $2k$ -SUN GRAPHS. In ADVANCES AND APPLICATIONS IN DISCRETE MATHEMATICS. ISSN 0974-1658, 2018, vol. 19, no. 3, pp. 299-307., *Registrované v: WOS*
14. [1.1] NADA, S. - DIAB, A. T. - ELROKH, A. - SABRA, D. E. The corona between paths and cycles. In ARS COMBINATORIA. ISSN 0381-7032, 2018, vol. 139, no., pp. 269-281., *Registrované v: WOS*
15. [1.1] RADIAPRADANA, Hafizh M. - SAPUTRO, Suhadi Wido - SUWASTIKA, Erma - NESWAN, Oki - SEMANICOVA-FENOVCIKOVA, Andrea. On topological integer additive set-labeling of star graphs. In ELECTRONIC JOURNAL OF GRAPH THEORY AND APPLICATIONS. ISSN 2338-2287, 2018, vol. 6, no. 2, pp. 341-346., *Registrované v: WOS*
16. [1.1] RAMACHANDRAN, V. - SEKAR, C. One modulo $\&ITN\&IT$ gracefulness of Crowns, Armed crowns and Chain of even cycles. In ARS COMBINATORIA. ISSN 0381-7032, 2018, vol. 138, no., pp. 143-159., *Registrované v: WOS*
17. [1.1] SADUAKDEE, Supaporn - KHEMMANI, Varanoot. The Unique gamma-min Labelings of Graphs. In THAI JOURNAL OF MATHEMATICS. ISSN 1686-0209, 2018, vol., no., pp. 187-203., *Registrované v: WOS*
18. [1.1] SADUAKDEE, Supaporn - KHEMMANI, Varanoot. gamma-Max Labelings of Graphs with Exterior Major Vertices. In ARS COMBINATORIA. ISSN 0381-7032, 2018, vol. 138, no., pp. 291-304., *Registrované v: WOS*
19. [1.1] SANDY, I. P. - RIZAL, A. - MANURUNG, E. N. - SUGENG, K. A. Alternative construction of graceful symmetric trees. In 1ST INTERNATIONAL CONFERENCE OF COMBINATORICS, GRAPH THEORY, AND NETWORK TOPOLOGY. ISSN 1742-6588, 2018, vol. 1008, no., pp., *Registrované v: WOS*
20. [1.1] SATHIAMOORTHY, G. - JANAKIRAMAN, T. N. Graceful Labeling of Generalized Theta graphs. In NATIONAL ACADEMY SCIENCE LETTERS-INDIA. ISSN 0250-541X, 2018, vol. 41, no. 2, pp. 121-122.,
Registrované v: WOS
21. [1.1] SEOUD, Mohamed Abdel-Azim - HAFEZ, Hamdy Mohamed. Odd Harmonious and Strongly Odd Harmonious Graphs. In KYUNGPOOK MATHEMATICAL JOURNAL. ISSN 1225-6951, 2018, vol. 58, no. 4, pp. 747-759., *Registrované v: WOS*

22. [1.1] SETHURAMAN, G. - SHANMUGAPRIYA, N. Even Complete Supersubdivision of any Graph is Cordial. In UTILITAS MATHEMATICA. ISSN 0315-3681, 2018, vol. 107, no., pp. 51-79., Registrované v: WOS
23. [1.1] WANG, Hongyu - LI, Zepeng - XU, Jin. The Cryptography Models Designed by Double Odd Labelling of Trees. In UTILITAS MATHEMATICA. ISSN 0315-3681, 2018, vol. 106, no., pp. 223-232., Registrované v: WOS
24. [1.1] WANG, L. - CAO, H. Almost resolvable k -cycle systems with $k \pmod{4}$. In JOURNAL OF COMBINATORIAL DESIGNS. ISSN 1063-8539, 2018, vol. 26, no. 10, pp. 480-486., Registrované v: WOS
25. [1.1] ZHANG, Xiaohui - MU, Yarong - SUN, Hui - YA, Bing. Graph Module- k Odd-elegant Labelling Towards Topological Graphical Passwords. In PROCEEDINGS OF 2018 IEEE 3RD ADVANCED INFORMATION TECHNOLOGY, ELECTRONIC AND AUTOMATION CONTROL CONFERENCE (IAEAC 2018), 2018, vol., no., pp. 1660-1665., Registrované v: WOS
26. [1.2] LOURDUSAMY, A. - GEORGE, Sherry. Super vertex mean labeling of cycles through different ways. In Proyecciones. ISSN 07160917, 2018-01-01, 37, 2, pp. 181-198., Registrované v: SCOPUS
27. [1.2] SANTHAKUMARAN, A. P. - BALAGANESAN, P. Vertex graceful labeling of some classes of graphs. In Proyecciones. ISSN 07160917, 2018-01-01, 37, 1, pp. 19-43., Registrované v: SCOPUS

AEC26

SHANNON, A. - RIEČAN, Beloslav - OROZOVA, D. - SOTIROVA, E. - ATANASSOV, K. - KRAWCZAK, M. - MELO-PEDRO, P. - PARVATHI, R. - KIM, T. Generalized net model of the process of selection and usage of an intelligent e-learning system. In 2012 6th IEEE International Conference Intelligent systems: IS 2012, Sofia, Bulgaria, 6-8 September, 2012. - Piscataway : IEEE, 2012, p. 233-236. ISBN 978-1-4673-2276-8.

Citácie:

1. [1.2] GOYAL, Mukta - KRISHNAMURTHY, Rajalakshmi. Optimizing student engagement in online learning environments: Intuitionistic fuzzy logic in student modeling. In Intelligent Systems: Concepts, Methodologies, Tools, and Applications, 2018-06-04, pp. 671-702., Registrované v: SCOPUS
2. [1.2] ROEVA, Olympia - ATANASSOVA, Vassia. Universal generalized net model for description of metaheuristic algorithms: verification with the bat algorithm. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018, vol. 643, p. 244-255., Registrované v: SCOPUS

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

AECA01

BUTKA, Peter - PÓCS, Jozef - PÓCSOVÁ, Jana. Reduction of concepts from generalized one-sided concept lattice based on subsets quality measure. In New research in multimedia and internet systems. - Springer International Publishing, 2015, s. 101-111. ISBN 978-3-319-10382-2. ISSN 2194-5357.

Citácie:

1. [1.1] ANTONI, Lubomir - KRAJCI, Stanislav - KRÍDLO, Ondrej. On stability of fuzzy formal concepts over randomized one-sided formal context. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 333, p. 36-53., Registrované v: WOS
2. [1.2] ANTONI, Lubomir - KRAJČI, Stanislav - KRÍDLO, Ondrej. On fuzzy generalizations of concept lattices. In Studies in Computational Intelligence. ISSN 1860949X, 2018, vol. 758, p. 79-103., Registrované v: SCOPUS

- AECA02 SHANNON, Anthony G. - RIEČAN, Beloslav - SOTIROVA, Evdokia - ATANASSOV, Krassimir T. - KRAWCZAK, Maciej - MELO-PINTO, Pedro - PARVATHI, Rangasamy - KIM, Taekyun. Generalized net models of academic promotion and doctoral candidature. In Recent Contributions in Intelligent Systems. - Springer International Publishing Switzerland, 2017, p. 263-277. ISBN 978-3-319-41437-9.
- Citácie:
1. [1.1] ROEVA, Olympia - ATANASSOVA, Vassia. Universal Generalized Net Model for Description of Metaheuristic Algorithms: Verification with the Bat Algorithm. In ADVANCES IN FUZZY LOGIC AND TECHNOLOGY 2017, VOL 3. ISSN 2194-5357, 2018, vol. 643, p. 244-255., Registrované v: WOS
- AECA03 SOTIROVA, Evdokia - SHANNON, Anthony G. - KIM, Taekyun - KRAWCZAK, Maciej - MELO-PINTO, Pedro - RIEČAN, Beloslav. Intuitionistic fuzzy evaluations for the analysis of a student's knowledge in university e-learning courses. In Intuitionistic Fuzziness and Other Intelligent Theories and Their Applications : Studies in Computational Intelligence. 757. - Springer International Publishing, 2019, p. 95-100. ISBN 978-3-319-78930-9. ISSN 1860-949X.
- Citácie:
1. [1.1] EYOH, Imo - JOHN, Robert - DE MAERE, Geert. Interval Type-2 A-Intuitionistic Fuzzy Logic for Regression Problems. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, 2018, vol. 26, no. 4, pp. 2396-2408., Registrované v: WOS

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

- AED01 KOTZIG, A.. Theory of graphs and its applications. In Proceeding of Symposium on the Theory of graphs and its applications. - Praha : Nakl. CSAV, 1963, p. 162.
- Citácie:
1. [1.1] BERRY, Duncan - BRYANT, Darryn - DEAN, Matthew - MAENHAUT, Barbara. Uniform decompositions of complete multigraphs into cycles. In JOURNAL OF COMBINATORIAL DESIGNS. ISSN 1063-8539, 2018, vol. 26, no. 12, pp. 595-615., Registrované v: WOS
- AED02 MESJAROVÁ-ZEMÁNKOVÁ, Andrea - LAZARO, J. Bipolar aggregation operators. In Proc. AGOP. - 2003, vol. 2003, p. 119-123.
- Citácie:
1. [1.1] KHAMENEH, Azadeh Zahedi - KILICMAN, Adem. m-Polar Fuzzy Soft Weighted Aggregation Operators and Their Applications in Group Decision-Making. In SYMMETRY-BASEL. ISSN 2073-8994, 2018, vol. 10, no. 11, pp., Registrované v: WOS

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

- AEE01 ALEKAL, Y. - BRUNOVSKÝ, Pavol - CHYUNG, D.H. - LEE, E.B. The quadratic problem for systems with time delays. Y. Alekal, P. Brunovský, D.H. Chyung, E.B. Lee. In IEEE Transactions on Automatic Control, 1971, vol. 16, no. 6, p. 673-687. ISSN 0018-9286.
- Citácie:
1. [1.1] CARMONA, Rene - FOUQUE, Jean-Pierre - MOUSAVI, Seyyed Mostafa - SUN, Li-Hsien. Systemic Risk and Stochastic Games with Delay. In JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS. ISSN 0022-3239, 2018, vol. 179, no. 2, pp. 366-399., Registrované v: WOS

2. [1.1] SUN, Li-Hsien. *Systemic Risk and Interbank Lending*. In *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*. ISSN 0022-3239, 2018, vol. 179, no. 2, pp. 400-424., Registrované v: WOS
 3. [1.2] RODRIGUEZ-GUERRERO, Liliam - SANTOS-SANCHEZ, Omar J. - VELASCO-REBOLLO, Rodrigo E. - GARCIA-SAMPERIO, Cesar A. *Network-based control system to compensate the input delay and minimize energy expenditure of a cooling plant*. In *2018 15th International Conference on Electrical Engineering, Computing Science and Automatic Control, CCE 2018, 2018-11-13, pp.*, Registrované v: SCOPUS
- AEE02 CLEMONS, P. A. - WILSON, J. A. - DANČÍK, Vladimír - MULLER, S. - CARRINSKI, H. A. - WAGNER, B. K. - KOEHLER, A. N. - SCHREIBER, S. L. Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. P. A. Clemons, J. A. Wilson, V. Dančík, S. Muller, H. A. Carrinski, B. K. Wagner, A. N. Koehler, S. L. Schreiber. In *Proceedings of the National Academy of Sciences of the United States of America*. - Washington : National Academy of Sciences, 2011, vol. 108, no. 17, p. 6817-6822. (2010: 9.771 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0027-8424.
- Citácie:
1. [1.1] MATEU, Natalia - KIDD, Sarah L. - KALASH, Leen - SORE, Hannah F. - MADIN, Andrew - BENDER, Andreas - SPRING, David R. *Synthesis of Structurally Diverse N-Substituted Quaternary-Carbon-Containing Small Molecules from alpha,alpha-Disubstituted Propargyl Amino Esters*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 51, p. 13681-13687., Registrované v: WOS
 2. [1.1] MOHANRAJ, Karthikeyan - KARTHIKEYAN, Bagavathy Shanmugam - VIVEK-ANANTH, R. P. - CHAND, R. P. Bharath - APARNA, S. R. - MANGALAPANDI, Pattulingam - SAMAL, Areejit. *IMPPAT: A curated database of Indian Medicinal Plants, Phytochemistry And Therapeutics*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, art. no. 4329., Registrované v: WOS
 3. [1.1] SLAUSON, Stephen R. - ECHEVERRY, Natalia - COPELAND, Samantha - STOJ, Alessandra - KEMP, Melissa A. - SIMON, Maria. *MICROWAVE PROMOTED DIELS-ALDER REACTION OF 1,2-DIHYDROPYRIDINE*. In *HETEROCYCLES*. ISSN 0385-5414, 2018, vol. 96, no. 10, p. 1729-1739., Registrované v: WOS
- AEE03 ĎURIŠ, Pavol - GALIL, Z. - SCHNITGER, G. Lower bounds on communication complexity. In *Proceedings of the 16th ACM Symposium on Theory of Computing*. - Washington D.C., 1984, s. 81-91.
- Citácie:
1. [1.2] BALKANSKI, Eric - BREUER, Adam - SINGER, Yaron. *Non-monotone submodular maximization in exponentially fewer iterations*. In *Advances in Neural Information Processing Systems*. ISSN 10495258, 2018-01-01, 2018-December, pp. 2353-2364., Registrované v: SCOPUS
 2. [1.2] BALKANSKI, Eric - SINGER, Yaron. *Approximation guarantees for adaptive sampling*. In *35th International Conference on Machine Learning, ICML 2018, 2018-01-01, 1, pp. 661-677.*, Registrované v: SCOPUS
 3. [1.2] BALKANSKI, Eric - SINGER, Yaron. *The adaptive complexity of maximizing a submodular function*. In *Proceedings of the Annual ACM Symposium on Theory of Computing*. ISSN 07378017, 2018-06-20, pp. 1138-1151., Registrované v: SCOPUS

4. [1.2] BRAVERMAN, Mark - MAO, Jieming - WEINBERG, S. Matthew. *On simultaneous two-player combinatorial auctions. In Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, 2018-01-01, pp. 2256-2273., Registrované v: SCOPUS*
- AEE04 DVUREČENSKIJ, Anatolij. On partial addition in pseudo MV-algebras. In Proc. Fourth Inter. Symp. on Econ. Inform. - Bucharest : INFOREC Printing House, 1999, s. 952-960.
Citácie:
1. [1.1] BANIVAHEB, H. - SAEID, A. Borumand. *Localization of PMV-algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 1, p. 31-40., Registrované v: WOS*
2. [1.1] FLAMINIO, T. - HOSNI, H. - LAPENTA, S. *Convex MV-Algebras: Many-Valued Logics Meet Decision Theory. In STUDIA LOGICA. ISSN 0039-3215, 2018, vol. 106, no. 5, p. 913-945., Registrované v: WOS*
3. [1.1] GORAGHANI, S. Saidi - BORZOOEI, R. A. *Decomposition of A-ideals in MV-modules. In ANNALS OF THE UNIVERSITY OF CRAIOVA-MATHEMATICS AND COMPUTER SCIENCE SERIES. ISSN 1223-6934, 2018, vol. 45, no. 1, p. 66-77., Registrované v: WOS*
4. [3.1] IORGULESCU, A. *"Implicative-groups vs. groups and generalizations". Bucharest: Matrix Rom, 2018. ISBN 978-606-25-0394-9, 735 p.*
- AEE05 JANKOVIČ, P. - ŠUCH, Ondrej. Functional programming and discrete simulation. In ITAT 2011, Informačné technológie – Aplikácie a Teória. - Praha : Univerzita Karlova v Praze, 2011, s. 95-98. ISBN 978-80-89557-01-1.
Citácie:
1. [1.1] THALER, Jonathan - ALTENKIRCH, Thorsten - SIEBERS, Peer-Olaf. *Pure Functional Epidemics. In PROCEEDINGS OF THE 30TH SYMPOSIUM ON IMPLEMENTATION AND APPLICATION OF FUNCTIONAL LANGUAGES (IFL 2018), 2018, p. 1-12., Registrované v: WOS*
- AEE06 RIEČAN, Beloslav. On two ways for the probability theory on IF-sets. In SOFT METHODS FOR INTEGRATED UNCERTAINTY MODELLING. - Univ. Bristol, England, 2006, s. 285-290.
Citácie:
1. [1.1] NOWAK, Piotr - HRYNIEWICZ, Olgierd. *On central limit theorems for IV-events. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 8, pp. 2471-2483., Registrované v: WOS*

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

- AEF01 GRUSKA, Jozef. Descriptive complexity of context-free languages. In Proc. of MFCS'73. - High Tatras, 1973, s. 71-85.
Citácie:
1. [1.1] JEZ, Artur - OKHOTIN, Alexander. *On the Number of Nonterminal Symbols in Unambiguous Conjunctive Grammars. In FUNDAMENTA INFORMATICA. ISSN 0169-2968, 2018, vol. 162, no. 1, p. 43-72., Registrované v: WOS*
- AEF02 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.
Citácie:
1. [1.1] CHEN, Wenjuan - DUDEK, Wieslaw A. *States, state operators and quasi-pseudo-MV algebras. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 24, pp. 8025-8040., Registrované v: WOS*

2. [1.1] FU, Yu Long - XIN, Xiao Long - WANG, Jun Tao. State maps on semihoops. In OPEN MATHEMATICS. ISSN 2391-5455, 2018, vol. 16, no., pp. 1061-1076., Registrované v: WOS
3. [1.1] HE, Pengfei - WANG, Juntao - ZHAO, Bin. Involutive Monoidal T-norm Based Algebras with Internal States. In JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING. ISSN 1542-3980, 2018, vol. 31, no. 5-6, pp. 531-565., Registrované v: WOS
4. [1.1] WANG, Wei - XIN, Xiao Long - WANG, Jun Tao. EQ-algebras with internal states. In SOFT COMPUTING. ISSN 1432-7643, 2018, vol. 22, no. 9, pp. 2825-2841., Registrované v: WOS
5. [1.1] ZHANG, Huarong - LUO, Minxia. The generalized Bosbach states on EQ-algebras. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 3, pp. 3773-3782., Registrované v: WOS
6. [1.1] ZHAO, Bin - HE, Pengfei. On Non-commutative Residuated Lattices With Internal States. In IEEE TRANSACTIONS ON FUZZY SYSTEMS. ISSN 1063-6706, 2018, vol. 26, no. 3, pp. 1387-1400., Registrované v: WOS

AEMB Abstrakty vedeckých prác v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

- AEMB01 KUTIL, Rade - FLATZ, Markus - VAJTERŠIC, Marián. Improvements in approximation performance and parallelization of Nonnegative Matrix Factorization with Newton iteration. In The 2017 International Conference on High Performance Computing and Simulation : proceedings, HPCS 2017. - Los Alamitos : IEEE Computer Society, 2017, p. 887-888. ISBN 978-1-5386-3250-5.
- Citácie:
1. [1.1] JIANG, Yi - WU, Jiani - ZHANG, Shufang. An Improved Positioning Method for Two Base Stations in AIS. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 4, article number 991., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 BUTKA, P. - PÓCSOVÁ, J. - PÓCS, Jozef. Some Results and Algorithm for One-sided Concept Lattices with Separable Modifiers. In 9th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2014). - Romania, 2014, s. 201-205. ISBN 978-1-4799-4694-5.
- Citácie:
1. [1.2] SINGH, Prem Kumar - KUMAR, Aswani. Attribute implications in data with fuzzy attributes using armstrong axioms. In 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017, 2018, p. 637-641., Registrované v: SCOPUS
- AFC02 FLATZ, Markus - KUTIL, Rade - VAJTERŠIC, Marián. Parallelization of the hierarchical alternating least squares algorithm for Nonnegative Matrix Factorization. In 2018 IEEE 4th International Forum on Research and Technologies for Society and Industry (RTSI 2018), Palermo, Italy, September 10-13, 2018: forum proceedings. - Piscataway : IEEE Press, 2018, p. 208-212. ISBN 978-1-5386-6283-0. (Elektronické ISBN 978-1-5386-6282-3, s. 1-5.).
- Citácie:
1. [1.1] JIANG, Yi - WU, Jiani - ZHANG, Shufang. An Improved Positioning Method for Two Base Stations in AIS. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 4, article number 991, Registrované v: WOS

- AFC03 MIHÓK, Peter - SEMANIŠIN, G. Unique factorization theorem and formal concept analysis. In Lecture Notes in Computer Science, 2008, vol. 4923, p. 232-239.
Citácie:
1. [1.1] VIAUD, Jean-Francois - BERTET, Karell - MISSAOUI, Rokia - DEMKO, Christophe. Using congruence relations to extract knowledge from concept lattices. In DISCRETE APPLIED MATHEMATICS. ISSN 0166-218X, 2018, vol. 249, p. 135-150., Registrované v: WOS
- AFC04 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.
Citácie:
1. [1.2] BARTKOVÁ, Renáta - ČUNDERLÍKOVÁ, Katarína. About fisher-tippett-gnedenko theorem for intuitionistic fuzzy events. In Advances in Intelligent Systems and Computing. ISSN 21945357, 2018-01-01, 641, pp. 125-135., Registrované v: SCOPUS

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. (2017 - IEEE Xplore, SCOPUS). ISBN 978-80-972629-0-7.
Citácie:
1. [1.2] CHUMMANO, Nareerat - CHUMMANO, Prayuth - THEPMANEE, Teerawat. Uncertainty analysis for determination of long-term drift and mounting position for pressure transmitter calibration. In ICIC Express Letters. ISSN 1881803X, 2018, vol. 12, no. 7, p. 663-669., Registrované v: SCOPUS

DAI Dizertačné a habilitačné práce

- DAI01 MESJAROVÁ-ZEMÁNKOVÁ, Andrea. Special classes of triangular norms. Ph.D. thesis. Bratislava : Matematický ústav SAV, 2005.
Citácie:
1. [1.1] PETRIK, Milan - SARKOCI, Peter. Continuous weakly cancellative triangular subnorms: I. Their web-geometric properties. In FUZZY SETS AND SYSTEMS. ISSN 0165-0114, 2018, vol. 332, p. 93-110., Registrované v: WOS

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

- FAI01 Euro HCC 2017 : proceedings. J. von zur Gathen, O. Grošek, K. Nemoga, A. Wacker (eds.). Bratislava : SPEKTRUM STU, 2017. 77 p. ISBN 978-80-227-4687-8.
Citácie:
1. [1.1] SCHMEH, Klaus. Review of the 3rd European Historical Ciphers Colloquium in Smolenice, Slovakia. In CRYPTOLOGIA. ISSN 0161-1194, 2018, vol. 42, no. 2, p. 176-182., Registrované v: WOS

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 MACKO, Tibor. Fake lens spaces [elektronický zdroj]. 2013. Dostupné na internete: <<http://www.boma.mpim-bonn.mpg.de/volumes>>.

Citácie:

1. [1.1] *ERDAL, Mehmet Akif. On smooth manifolds with the homotopy type of a homology sphere. In TOPOLOGY AND ITS APPLICATIONS. ISSN 0166-8641, 2018, vol. 234, p. 82-91., Registrované v: WOS*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

prof. RNDr. Anatolij Dvurečenskij, DrSc.

Názov semestr. predmetu: Teória pravdepodobnosti

Počet hodín za semester: 16

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 1

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Funkcionálna analýza 2

Počet hodín za semester: 2

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

prof. RNDr. Michal Fečkan, DrSc.

Názov semestr. predmetu: Nelineárna funkcionálna analýza

Počet hodín za semester: 2

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

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Diferenciálna topológia

Počet hodín za semester: 24

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

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

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

Mgr. Tibor Macko, PhD.

Názov semestr. predmetu: Vybrané kapitoly z algebraickej topológie

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: Fakulta elektrotechniky a informatiky STU, 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: Fakulta elektrotechniky a informatiky STU, Ústav aplikovanej informatiky a matematiky

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika I

Počet hodín za semester: 24

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika II

Počet hodín za semester: 8

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerické metódy lineárnej algebry

Počet hodín za semester: 39

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Grafy a sítě I

Počet hodín za semester: 39

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

RNDr. Jozef Pócs, PhD.

Názov semestr. predmetu: Logika a teorie množin

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (3)

Počet hodín za semester: 52

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 52

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Digitale Rechenanlagen

Počet hodín za semester: 30

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

prof. RNDr. Marian Vajteršic, DrSc.

Názov semestr. predmetu: Lineare Algebra fuer Informatik

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Pravdepodobnosť a štatistika 1

Počet hodín za semester: 24

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

prof. RNDr. Gejza Wimmer, DrSc.

Názov semestr. predmetu: Štatistické inferencie 2

Počet hodín za semester: 36

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

Semestrálne cvičenia:

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Analýza a zložitosť algoritmov

Počet hodín za semester: 192

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Pravdepodobnosť a štatistika

Počet hodín za semester: 120

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

Mgr. Martin Bečka, PhD.

Názov semestr. predmetu: Úvod do matematických základov informatiky

Počet hodín za semester: 72

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

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. RNDr. Karol Nemoga, CSc.

Názov semestr. predmetu: Logika

Počet hodín za semester: 26

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

Mgr. Branislav Novotný, PhD.

Názov semestr. predmetu: Štatistika II

Počet hodín za semester: 6

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: MATLAB I, II

Počet hodín za semester: 26

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

doc. Ing. Gabriel Okša, CSc.

Názov semestr. predmetu: Numerické metódy lineárnej algebry

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematická analýza (4)

Počet hodín za semester: 26

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (3)

Počet hodín za semester: 39

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

RNDr. Michal Pospíšil, PhD.

Názov semestr. predmetu: Matematika (4)

Počet hodín za semester: 26

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

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
Belgicko					Karol Nemoga	8
Česko					Roman Frič	4
					Tibor Macko	5
					Karol Nemoga	4
					Gabriel Okša	4
					Jozef Pócs	2
Nemecko					Martin Kochol	28
					Martin Plávala	18
Poľsko	Katarína Čunderlíková	2				
	Emília Halušková	27				
Rakúsko					Vladimír Baláž	2
					Gabriel Okša	4
					Oto Strauch	2
Rusko					Roman Nedela	6
Španielsko	Pavol Bokes	17			Martin Papčo	17
	Branislav Novotný	17				
Taliansko					Martin Plávala	9
Turecko					Anna Jenčová	6
USA					Igor Mračka	14
Počet vyslaní spolu	4	63			16	133

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Michal Botur	9
Hongkong					Hoi Ping Luk	61
Irán					Omid Zahiri	2
Rusko					Ilia Ponomarenko	21
Taliansko					Serafina Lapenta	5
Počet prijatí spolu					5	98

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí:

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	HistoCrypt 2019	Karol Nemoga	6
Bulharsko	ICIFS 2019	Katarína Čunderlíková	5
		Alžbeta Michalíková	5
	LSSC 2019	Marian Vajtersíc	5
Česko	AGOP 2019	Jozef Pócs	5
	CECC 2019	Karol Nemoga	4
	EUSFLAT 2019	Katarína Čunderlíková	6
	ISCAMI 2019	Dušana Babicová	5
	MCW XXIV	Roman Nedela	4
	SSAOS 2019	Anna Jenčová	7
	WSGP 2019	Tibor Macko	4
Estónsko	MMA 2019	Jozef Pócs	5
Francúzsko	HIP19	Jean Rosemond Dora	3
	Workshop GPT&QIT	Anna Jenčová	4
		Martin Plávala	4
Grécko	PMAMCM 2019	Lubica Holá	10
Chorvátsko	ParNum 2019	Gabriel Okša	5
Kanada	BIRS Workshop	Anna Jenčová	7
Maďarsko	Exoplanet Vision 2050	Eva Plávalová	2
Nemecko	CTGP 2019	Martin Kochol	7
Nórsko	14thMunin	Karol Nemoga	4
Poľsko	AALCS XXIII	Ján Haluška	5
		Emília Halušková	5
	CASTR 2019	Emília Halušková	2
	FNW 2019	Emília Halušková	1
	IWIFSGN 2019	Katarína Čunderlíková	2
		Alžbeta Michalíková	4
	PPAM 2019	Martin Bečka	5
		Gabriel Okša	5
	RealFunc2019	Roman Frič	7
		Branislav Novotný	9

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (pokračovanie):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Portugalsko	ICDDEA 2019	Nataliya Dilna	8
	MATHMET 2019	Gejza Wimmer	5
Rakúsko	KEOD 2019	Jean Rosemond Dora	3
Rusko	LATA 2019	Michal Hospodár	7
		Galina Jirásková	7
Španielsko	NATOSecComm	Karol Nemoga	3
Švajčiarsko	Solstice of Foundations 2019	Martin Plávala	4
	OPODIS 2019	Stefan Dobrev	4
Veľká Británia	PSIG 2019	Marek Hyčko	7
		Igor Mračka	7
	QCS 2019	Martin Plávala	7
Spolu	34	42	214

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

Skratky použité v tabuľke C:

Solstice of Foundations 2019 - Solstice of Foundations 2019
 14thMunin - 14th Munin Conference on Scholarly Publishing
 AALCS XXIII - Application of Algebra XXIII
 AGOP 2019 - 10th International Summer School on Aggregation Operators
 BIRS Workshop - BIRS Workshop on Algebraic and Statistical ways into Quantum Resource Theories
 CASTR 2019 - Computer Algebra Systems in Teaching and Research
 CECC 2019 - Central European Conference on Cryptology 2019
 CTGP 2019 - Comparative Theory for Graph Polynomials
 EUSFLAT 2019 - 11th Conference of the European Society for Fuzzy Logic and Technology
 Exoplanet Vision 2050 - Exoplanet Vision 2050
 FNW 2019 - Festiwal Nauki Warszawa
 HIP19 - Hack in Paris 2019
 HistoCrypt 2019 - International Conference on Historical Cryptology 2019
 ICDDEA 2019 - International Conference on Differential & Difference Equations and Applications 2019
 ICIFS 2019 - 23rd International Conference on Intuitionistic Fuzzy Sets 2019
 ISCAMI 2019 - International Student Conference on Applied Mathematics and Informatics
 IWIFSGN 2019 - Eighteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets
 KEOD 2019 - International Conference on Knowledge Engineering and Ontology Development 2019
 LATA 2019 - 13th International Conference on Language and Automata Theory and Applications
 LSSC 2019 - Large Scale Scientific Computations 2019
 MATHMET 2019 - MATHMET 2019 International Workshop
 MCW XXIV - Midsummer Combinatorial Workshop XXIV
 MMA 2019 - 24th International Conference on Mathematical Modelling and Analysis
 NATOSecComm - NATO Workshop on Secure Communication
 OPODIS 2019 - Conference on Principles of Distributed Systems 2019
 ParNum 2019 - ParNum 2019
 PMAMCM 2019 - The 2019 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods
 PPAM 2019 - 13th International Conference on Parallel Processing and Applied Mathematics
 PSIG 2019 - Pipeline Simulation Interest Group Conference 2019
 QCS 2019 - Quantum Causal Structures 2019
 RealFunc2019 - 33th International Summer Conference on Real Functions Theory
 SSAOS 2019 - 57th Summer School on General Algebra and Ordered Sets
 Workshop GPT&QIT - Workshop on Generalized Probabilistic Theories and Quantum Information
 WSGP 2019 - The 39th Winter School Geometry and Physics

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

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Stefan Dobrev, PhD.		PB	Ako nájsť poklad keď nemáš pamäť? (Prehľadávanie multi-dimenziálnych mriežok konečnými automatmi)	Deň otvorených dverí MÚ SAV	6.11.2019
prof. RNDr. Anatolij Dvurečenskij, DrSc.		IN	2.S. Ščepán, Matematici SAV si pripomínali šesťdesiatku, Aktuality SAV, https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8428 , 17.9.2019	Aktuality SAV	17.9.2019
prof. RNDr. Anatolij Dvurečenskij, DrSc.		TL	S. Ščepán, Medaily SAV výnimočným matematikom, Aktuality SAV, https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8429 , 17.9.2019	Aktuality SAV	17.9.2019
doc. RNDr. Roman Frič, DrSc.		PB	O čom matematika je/nie je	Deň otvorených dverí Detašovaného pracoviska MÚ SAV v Košiciach	7.11.2019
doc. RNDr. Rudolf Hajossy, CSc.		PB	Ako sínus s kosínusom rozhodujú o farbách jesenného lístia	Deň otvorených dverí MÚ SAV	6.11.2019
RNDr. Emília Halušková, CSc.		PB	Babrošenie s matematikou	Kultúrny dom Liptovský Ján	20.2.2019
RNDr. Emília Halušková, CSc.		PB	Babrošenie s matematikou	Kultúrny dom Liptovský Ján	27.2.2019
RNDr. Emília Halušková, CSc.		PB	Babrošenie s matematikou	Kultúrny dom Liptovský Ján	26.6.2019
Ing. Michal Hospodár, PhD.		IN	21st International Conference on Descriptive Complexity of Formal Systems (DCFS)	http://www.ssn.sk/21359/najnovsie-vysledky-vypoctovych-modelov-prinesie-medzinarodna-informacka-konferencia/	16.7.2019
Ing. Michal Hospodár, PhD.		IN	24th International Conference on Implementation and Application of Automata (CIAA)	https://www3.teraz.sk/regiony/na-konferencii-ciaa-2019-v-kosiciach-sa/408665-clanok.html	22.7.2019
Ing. Michal Hospodár, PhD.		PB	O matematických automatoch	Deň otvorených dverí Detašovaného pracoviska MÚ SAV v Košiciach	7.11.2019

Vedecko-popularizačná činnosť pracovníkov organizácie SAV (pokračovanie)

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Tibor Macko, PhD.		PB	O Eulerovom vzorci a futbalovej lopte	Deň otvorených dverí MÚ SAV	6.11.2019
Mgr. Peter Mlynárčik, PhD.		PB	Matematika veselo a vážne	Deň otvorených dverí Detašovaného pracoviska MÚ SAV v Košiciach	7.11.2019
Mgr. Peter Mlynárčik, PhD.		PB	Niektoré zaujímavé úlohy z Matematickej olympiády	Týždeň vedy a techniky, Detašované pracovisko MÚ SAV v Košiciach	4.11.2019
Mgr. Peter Mlynárčik, PhD.		PB	Vedecký brloh	Výmenník Obrody, Košice	2.3.2019
doc. RNDr. Karol Nemoga, CSc.		PB	Je náš svet bezpečný	Rektorát STU, Bratislava	1.10.2019
doc. RNDr. Karol Nemoga, CSc.		TV	Rozhovor o projektoch programu NATO Science for Peace and Security	španielska TV	23.9.2019
doc. RNDr. Karol Nemoga, CSc.	-	IN	Rozhovor s matematikom Karolom Nemogom o umelej inteligencii	https://mistrik2019.sk/podcast/	1.8.2019
RNDr. Martin Plávala, PhD.		IN	CESTA K POVOLANIU: Matematikou sa rátať dobytok aj pohyby telies na oblohe. Preto ju máme v ekonómii aj fyzike	https://www.eductech.sk/novinky/cesta-k-povolaniu-matematikou-sa-ratal-dobytok-aj-pohyb-telies-na-oblohe-pr-to-ju-mame-v-ekonomii-aj-fyzike/	24.6.2019
RNDr. Martin Plávala, PhD.		IN	Kvantová záhada	https://www.quark.sk/kvantova-zahada/	23.11.2019
RNDr. Martin Plávala, PhD.		IN	Racionálna aj iracionálna logika	https://vedanadosah.cvtsr.sk/racionalna-aj-iracionalna-logika	10.5.2019
RNDr. Martin Plávala, PhD.		PB	Sčítanie a sumy v matematike od základnej školy po teóriu kategórií	Deň otvorených dverí MÚ SAV	6.11.2019
prof. RNDr. Anatolij Dvurečenskij, DrSc.		TL	3.S. Ščepán, Matematika je podstatná a nezastupiteľná, Akadémia Správy SAV, 55 no. 5(2019), 21—21.	Správy SAV 55 (2) 2019, 21%21	0
Mgr. Peter Mlynárčik, PhD.		iné	Matematický Alternatívny Krúžok (MAK)	Matematický ústav SAV, Grešákova 6, Košice	15
RNDr. Martin Plávala, PhD.		TL	Kvantová záhada	Quark	0

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