

Publikácie / Publications

Department: SAVMATEM - Matematický ústav SAV
Year of publication 2012~2015

Statistics publication category

AAA	Scientific monographs published abroad	1
AAB	Scientific monographs published in Slovak publishing houses	3
ABA	Monographic studies in journals and proceedings published abroad	1
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AEE	Scientific papers in foreign non peer-reviewed proceedings, monographs	1
AFC	Published papers from foreign scientific conferences	20
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GHG	Works published on the internet	8
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	15
Count		426

AAA Scientific monographs published abroad

AAA01 PAŠTÉKA, Milan. *On Four Approaches to density : SPECTRUM SLOVAKIA Series, Volume 3*. Frankfurt am Main, Germany : Peter Lang, 2013. 95 s. ISBN 978-3-631-64941-1.

AAB Scientific monographs published in Slovak publishing houses

AAB01 CHOVANEC, Ferdinand. *Diferenčné posety a ich grafická reprezentácia* [Difference posets and their graphical representation]. L. Mikuláš : AOS gen. M.R. Štefánika, 2013. 247 s. ISBN 978-80-8040-479-6.

AAB02 KORBAŠ, Július - GYÜRKI, Š. *Prednášky z lineárnej algebrý a geometrie* [Lectures on Linear Algebra and Geometry.]. 1. Vydanie. Bratislava : Polygrafické stredisko UK v Bratislave, 2013. 132 s. ISBN 978-80-223-3408-2.

AAB03 WIMMER, Gejza - PALENČÁR, R. - WITKOVSKÝ, Viktor - ĎURIŠ, S. *Vyhodnotenie kalibrácie meradiel : Štatistické metódy pre analýzu neistôt v metrológii* [Evaluation of calibration the measuring instruments. Statistical methods for the analysis of uncertainties in metrology]. Recenzenti: L. Kubáček, M. Terek, M. Dovica. Bratislava : Nakladateľstvo STU, 2015. xviii, 173 s. ISBN 978-80-227-4374-7.

ABA Monographic studies in journals and proceedings published abroad

ABA01 STRAUCH, Oto. Some applications of distribution functions of sequences. In *Uniform Distribution Theory*, 2015, vol. 10, no. 2, p. 117-183. ISSN 1336-913X.

ABC Chapters in scientific monographs published abroad

ABC01 BEČKA, Martin - OKŠA, Gabriel - VAJTERŠIC, 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.

ABC02 BORSÍK, Ján. Maximal classes for some families of Darboux-like and quasicontinuous-like functions. Rec. O. Artemovych, C. Bagiński et al. In *Monograph on the Occasion of 100th Birthday Anniversary of Zygmunt Zahorski*. - Gliwice : Wydawnictwo Politechniki Śląskiej, 2015, s. 155-168. ISBN 978-83-7880-206-8.

- ABC03 BORSÍK, Ján. Points of quasicontinuity and of similar generalizations of continuity. In *Traditional and present-day topics in real analysis*. - Lodz University Press, 2013, s. 113-128. ISBN 978-83-7525-971-1.
- ABC04 BORSÍK, Ján. Quasicontinuous functions with small set of discontinuity points. In *Modern Real Analysis*. - Lódz : Lodz University Press, 2015, p. 11-26. ISBN 978-83-7969-663-5.
- ABC05 DANČÍK, Vladimír - BASU, A. - CLEMONS, P. Properties of Biological Networks. In *Systems Biology Integrative Biology and Simulation Tools*. - Germany : Springer, 2013, s. 129-178. ISBN 978-94-007-6802-4.
- ABC06 DIBLÍK, J. - FEČKAN, Michal - POSPÍŠIL, Michal - ROTHOS, V.M. - SUSANTO, H. Travelling waves in nonlinear magnetic metamaterials, in "Localized Excitations in Nonlinear Complex Systems: Current State of the Art and Future Perspectives". J. Diblík, M. Fečkan, M. Pospíšil, V.M. Rothos, H. Susanto. In *Localized Excitations in Nonlinear Complex Systems: Current State of the Art and Future Perspectives. Nonlinear Systems and Complexity, Vol. 7*. - Cham : Springer International Publishing, 2014, p. 335-358. ISBN 978-3-319-02056-3.
- ABC07 DVUREČENSKIJ, Anatolij. How do l-groups and po-groups appear in algebraic and quantum structures? In *Petr Hájek on Mathematical Fuzzy Logic, Series: Outstanding Contributions to Logic, vol. 6*. - Switzerland : Springer, 2015, s. 177-206. ISBN 978-3-319-06232-7.
- ABC08 JIRÁSEK, Jozef - JIRÁSKOVÁ, Galina - SZABARI, Alexander. Operations on self-verifying finite automata. In *Computer Science - Theory and Applications : LNCS 9139, proceedings*. - Springer, 2015, p. 231-261. ISBN 978-3-319-20296-9.
- ABC09 KOCHOL, Martin. Quantitative methods for nowhere-zero flows and edge colorings. In *Quantitative graph theory : mathematical foundations and applications*. - Boca Raton : CRC Press, 2015, p. 141-180. ISBN 978-1-4665-8452-5.
- ABC10 KÖNING, R. - WIMMER, Gejza - WITKOVSKÝ, Viktor. EllipseFit4HC: A Matlab algorithm for demodulation and uncertainty evaluation of the quadrature interferometer signals. In *Advances in Mathematical and Computational Tools in Metrology and Testing X*. - World Scientific, 2015, p. 211-218. ISBN 978-981-4678-61-2.
- ABC11 NEDELA, Roman - ŠKOVIERA, M. Maps. In *Handbook of Graph Theory, Second Edition*. - Chapman and Hall/CRC, 2013, p. 820-859.
- ABC12 RIEČAN, Beloslav. Analysis of fuzzy logic models. In *Intelligent systems*. - INTECH, 2012, s. 219-244. ISBN 978-953-51-0054-6.

ADCA Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)

- ADCA01 ARCHDEACON, Dan - KOTRBČÍK, Michal - NEDELA, Roman - ŠKOVIERA, Martin. Maximum genus, connectivity, and Nebesky's Theorem. In

Ars Mathematica Contemporanea, 2015, vol. 9, no. 1, p. 51-61. (0.741 - IF2014). (2015 - Current Contents, WOS). ISSN 1855-3966.

- ADCA02 BABAJANOV, Bazar - FEČKAN, Michal - URAZBOEV, Gayrat. On the periodic Toda lattice with a self-consistent source. In *Communications in nonlinear science and numerical simulation*, 2015, vol. 22, p. 1223-1234. (2.866 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1007-5704. Dostupné na internete:
<http://ac.els-cdn.com/S1007570414004869/1-s2.0-S1007570414004869-main.pdf?_tid=29957da2-5de1-11e5-99ef-00000aacb362&acdnat=1442565915_d9acfa80671ebcf3f7a9d69322e3494f>.
- ADCA03 BALÁŽ, V. - MIŠÍK, L. - STRAUCH, Oto - TÓTH, J.T. Distribution functions of ratio sequences, IV. In *Periodica Mathematica Hungarica*, 2013, vol. 66, no. 1, s. 1-22. (0.261 - IF2012). (2013 - Current Contents). ISSN 0031-5303.
- ADCA04 BATTELLI, Flaviano - FEČKAN, Michal. On the existence of solutions connecting singularities in nonlinear RLC circuits. In *Nonlinear Analysis: theory, Methods & Applications*, 2015, vol. 116, p. 26-36. (1.327 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0362-546X. Dostupné na internete:
<<http://www.sciencedirect.com/science/article/pii/S0362546X1400412X>>.
- ADCA05 BATTELLI, F. - FEČKAN, Michal. Melnikov theory for weakly coupled nonlinear RLC circuits. In *Boundary Value Problems*, 2014, vol. 101. (0.836 - IF2013). (2014 - Current Contents). ISSN 1687-2762.
- ADCA06 BATTELLI, F. - FEČKAN, Michal. Melnikov theory for nonlinear implicit ODEs. In *Journal of differential equations*, 2014, vol. 256, s. 1157-1190. (1.570 - IF2013). (2014 - Current Contents). ISSN 0022-0396.
- ADCA07 BATTELLI, F. - FEČKAN, Michal. Nonlinear RLC circuits and implicit ODEs. In *Differential and Integral Equations*, 2014, vol. 27, s. 671-690. (0.542 - IF2013). (2014 - Current Contents). ISSN 0893-4983.
- ADCA08 BATTELLI, F. - FEČKAN, Michal. Nonsmooth homoclinic orbits, Melnikov functions and chaos in discontinuous systems. In *Physica D: Nonlinear Phenomena*, 2012, vol. 241, s. 1962-1975. (1.594 - IF2011). (2012 - Current Contents, CC). ISSN 0167-2789.
- ADCA09 BERKA, T. - KOLLIAS, G. - HAGENAUER, H. - VAJTERŠIĆ, Marián - GRAMA, A. Concurrent programming constructs for parallel MPI applications: The MPI library. T. Berka, G. Kollias, H. Hagenauer, M. Vajtersic, A. Grama. In *Journal of Supercomputing*, 2013, vol. 63, s. 385-406. (0.917 - IF2012). (2013 - Current Contents). ISSN 0920-8542.
- ADCA10 BORZOOEI, R.A - DVUREČENSKIJ, Anatolij - ZAHIRI, O. State BCK-algebras and state-morphism BCK-algebras. In *Fuzzy Sets and Systems*, 2014, vol. 244, s. 86-105. (1.880 - IF2013). (2014 - Current Contents). ISSN 0165-0114.

- ADCA11 BORZOOEI, R.A. - DVUREČENSKIJ, Anatolij - ZAHIRI, O. L-ordered and L-lattice ordered groups. In *Information Sciences*, 2015, vol. 314, s. 118-134. (4.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0020-0255.
- ADCA12 BOTUR, M. - DVUREČENSKIJ, Anatolij. Kite n-perfect pseudo effect algebras. In *Reports on Mathematical Physics*, 2015, vol. 76, no. 3, p. 291-315. (0.871 - IF2014). (2015 - Current Contents). ISSN 0034-4877.
- ADCA13 BOTUR, M. - DVUREČENSKIJ, Anatolij - KOWALSKI, T. On normal-valued basic pseudo hoops. In *Soft Computing*, 2012, vol. 16, s. 635-644. (1.880 - IF2011). (2012 - Current Contents). ISSN 1432-7643.
- ADCA14 BOTUR, M. - DVUREČENSKIJ, Anatolij. State-morphism algebras - general approach. In *Fuzzy Sets and Systems*, 2013, vol. 218, s. 90-102. (1.749 - IF2012). (2013 - Current Contents). ISSN 0165-0114.
- ADCA15 BREJOVÁ, Brona - DOBREV, Stefan - KRÁLOVIČ, Rastislav - VINAR, Tomáš. Efficient routing in carrier-based mobile networks. B. Brejová, S. Dobrev, R. Královič, T. Vinar. In *Theoretical Computer Science*, 2013, vol. 509, s. 113-121. (0.489 - IF2012). (2013 - Current Contents). ISSN 0304-3975.
- ADCA16 BRZOZOWSKI, Janusz - JIRÁSKOVÁ, Galina - LI, Baiyu. Quotient complexity of ideal languages. In *Theoretical Computer Science*, 2013, vol. 470, s. 36-52. (0.489 - IF2012). (2013 - Current Contents). ISSN 0304-3975.
- ADCA17 BRZOZOWSKI, J. A. - JIRÁSKOVÁ, Galina - ZOU, Ch. Quotient Complexity of Closed Languages. In *Theory of Computing Systems*, 2014, vol. 54, no. 2, s. 277-292. (0.452 - IF2013). (2014 - Current Contents). ISSN 1432-4350.
- ADCA18 BUHAGIAR, D. - CHETCUTI, Emmanuel - DVUREČENSKIJ, Anatolij. Completeness of inner product spaces and G. Cattaneo. In *Fundamenta Informaticae*, 2012, vol. 115, s. 15-24. (0.365 - IF2011). (2012 - Current Contents). ISSN 0169-2968.
- ADCA19 BUTKA, P. - PÓCS, Jozef - PÓCSOVÁ, J. On equivalence of conceptual scaling and generalized one-sided concept lattices. In *Information Sciences*, 2014, vol. 259, s. 57-70. (3.893 - IF2013). (2014 - Current Contents). ISSN 0020-0255.
- ADCA20 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, article ID 236725, p. 1-7. (1.041 - IF2012). (2013 - Current Contents). ISSN 0021-8936.
- ADCA21 CATERINO, A. - CEPPITELLI, R. - HOLÁ, L'ubica. Some generalizations of Back's theorem. In *Topology and its Applications*, 2013, vol. 160, s. 2386-2395. (0.562 - IF2012). ISSN 0166-8641.
- ADCA22 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. (2.963 - IF2011). (2012 - Current Contents). ISSN 0303-6812.

- ADCA23 CONDER, M. - NEDELA, Roman - ŠIRÁŇ, J. Classification of regular maps of Euler characteristic -3 p. In *Journal of Combinatorial Theory, Series B*, 2012, vol. 102, s. 967-981. (0.892 - IF2011). (2012 - Current Contents). ISSN 0095-8956.
- ADCA24 CZYZOWICZ, J. - DOBREV, Stefan - GASIENIEC, L. - ILCINKAS, D. - JANSSON, J. - KLASING, R. - LIGNOS, I. - MARTIN, R. - SADAKANE, K. - SUNG, W. More efficient periodic traversal in anonymous undirected graphs. In *Theoretical Computer Science*, 2012, vol. 444, s. 60-76. (0.665 - IF2011). (2012 - Current Contents). ISSN 0304-3975.
- ADCA25 DANCA, M.-F. - FEČKAN, Michal - ROMERA, M. Generalized form of Parrondo's paradoxical game with applications to chaos control. In *International Journal of Bifurcation and Chaos*, 2014, vol. 24. (1.017 - IF2013). (2014 - Current Contents). ISSN 0218-1274.
- ADCA26 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, s. 771-781. (2.012 - IF2013). (2014 - Current Contents). ISSN 1087-0571.
- ADCA27 DEČO, M. - REPICKÝ, Miroslav. Strongly dominating sets of reals. In *Archive for Mathematical Logic*, 2013, vol. 52, s. 827-846. (0.281 - IF2012). ISSN 0933-5846.
- ADCA28 DIBLIK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Nonexistence of periodic solutions and S-asymptotically periodic solutions in fractional difference equations. In *Applied Mathematics and Computation*, 2015, vol. 257, p. 230-240. (1.551 - IF2014). (2015 - Current Contents). ISSN 0096-3003.
- ADCA29 DIBLÍK, 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, s. 1745-1760. (1.389 - IF2013). (2014 - Current Contents). ISSN 0363-0129.
- ADCA30 DIBLÍK, J. - FEČKAN, Michal - POSPÍŠIL, Michal. Representation of a solution of the Cauchy problem for an oscillating system with multiple delays and pairwise permutable matrices. In *Abstract and applied analysis*, 2013, p. 31493. (1.102 - IF2012). (2013 - Current Contents). ISSN 1085-3375.
- ADCA31 DILNA, Nataliya. Unique solvability of second order functional differential equations with non-local boundary conditions : <http://www.math.u-szeged.hu/ejqtde/p1187.pdf>. In *Electronic Journal of Qualitative Theory of Differential Equations*, 2012, no. 14, s. 1-13. (0.557 - IF2011). (2012 - Current Contents). ISSN 1417-3875.

- ADCA32 DJIDJEV, H.N. - VRŤO, Imrich. Planar crossing numbers of graphs of bounded genus. In *Discrete and Computational Geometry*, 2012, vol. 48, s. 393-415. (0.938 - IF2011). (2012 - Current Contents). ISSN 0179-5376.
- ADCA33 DOBREV, Stefan - FLOCCHINI, Paola - KRÁLOVIČ, Rastislav - SANTORO, Nicola. Exploring an unknown dangerous graph using tokens. In *Theoretical Computer Science*, 2013, vol. 472, s. 28-45. (0.489 - IF2012). (2013 - Current Contents). ISSN 0304-3975.
- ADCA34 DOBREV, Stefan - NARAYANAN, L. - OPATRŇÝ, J. Optimal Sensor Networks for Area Monitoring Using Rotating and Beam Sensors. In *Theory of Computing Systems*, 2014, vol. 54, no. 4, s. 622-639. (0.452 - IF2013). (2014 - Current Contents). ISSN 1432-4350.
- ADCA35 DRMOTA, M. - NEDELA, Roman. Asymptotic enumeration of reversible maps regardless of genus. In *Ars Mathematica Contemporanea*, 2012, vol. 5, s. 77-97. (0.400 - IF2011). (2012 - Current Contents). ISSN 1855-3966.
- ADCA36 DVUREČENSKIJ, Anatolij - XIE, Y. Atomic effect algebras with the Riesz decomposition property. In *Foundations of Physics*, 2012, vol. 47, s. 1078-1093. (1.055 - IF2011). (2012 - Current Contents). ISSN 0015-9018.
- ADCA37 DVUREČENSKIJ, Anatolij - XIE, Y. - YANG, A. Discrete $(n + 1)$ -valued states and nperfect pseudo-effect algebras. In *Soft Computing*, 2013, vol. 17, s. 1537-1552. (1.124 - IF2012). (2013 - Current Contents). ISSN 1432-7643.
- ADCA38 DVUREČENSKIJ, Anatolij. Kite Pseudo Effect Algebras. In *Foundations of Physics*, 2013, vol. 43, s. 1314-1338. (1.170 - IF2012). (2013 - Current Contents). ISSN 0015-9018.
- ADCA39 DVUREČENSKIJ, Anatolij - KOWALSKI, T. Kites and pseudo BL-algebras. In *Algebra Universalis*, 2014, vol. 71, s. 235-260. (0.551 - IF2013). (2014 - Current Contents). ISSN 0002-5240.
- ADCA40 DVUREČENSKIJ, Anatolij - KOLAŘÍK, M. Lexicographic product vs Q-perfect and H-perfect pseudo effect algebras. In *Soft Computing*, 2014, vol. 17, s. 1041-1053. (1.304 - IF2013). (2014 - Current Contents). ISSN 1432-7643.
- ADCA41 DVUREČENSKIJ, Anatolij. Lexicographic pseudo MV-algebras. In *Journal of Applied Logic*, 2015, vol. 13, p. 825-841. (0.576 - IF2014). (2015 - Current Contents, WOS). ISSN 1570-8683.
- ADCA42 DVUREČENSKIJ, Anatolij - XIE, Y. n-Perfect and/ \mathbb{Q} -Perfect Pseudo Effect Algebras. In *International Journal of Theoretical Physics*, 2014, vol. 53, s. 3380-3390. (1.188 - IF2013). (2014 - Current Contents). ISSN 0020-7748.
- ADCA43 DVUREČENSKIJ, Anatolij - KUKOVÁ, M. Observables on quantum structures. In *Information Sciences*, 2014, vol. 262, s. 215-222. (3.893 - IF2013). (2014 - Current Contents). ISSN 0020-0255.

- ADCA44 DVUREČENSKIJ, Anatolij. On a new construction of pseudo BL-algebras. In *Fuzzy Sets and Systems*, 2015, vol. 271, s. 156-167. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114.
- ADCA45 DVUREČENSKIJ, Anatolij. On a new construction of pseudo effect algebras. In *Soft Computing*, 2015, vol. 19, s. 517-529. (1.271 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1432-7643.
- ADCA46 DVUREČENSKIJ, Anatolij - JANDA, J. On bilinear forms from the point of view of generalized effect algebras. In *Foundations of Physics*, 2013, vol. 43, s. 1136-1152. (1.170 - IF2012). (2013 - Current Contents). ISSN 0015-9018.
- ADCA47 DVUREČENSKIJ, Anatolij. Quantum structures versus partially ordered groups. In *International Journal of Theoretical Physics*, 2015, vol. 54, no. 12, p. 4260-4271. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748.
- ADCA48 DVUREČENSKIJ, Anatolij - JANDA, Jiří. Regular gleason measures and generalized effect algebras. In *International Journal of Theoretical Physics*, 2015, vol. 54, no. 12, p. 4313-4326. (1.184 - IF2014). (2015 - Current Contents). ISSN 0020-7748. Dostupné na internete:
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- ADCA52 DVUREČENSKIJ, Anatolij - RACHUNEK, J. - ŠALOUNOVÁ, D. State operators on generalizations of fuzzy structures. In *Fuzzy Sets and Systems*, 2012, vol. 187, p. 58-76. (1.759 - IF2011). (2012 - Current Contents). ISSN 0165-0114. *Fuzzy Sets and Systems*, 2012, vol.194, p. 97-99. (1.759 - IF2011). (2012 - Current Contents). ISSN 0165-0114. Erratum publikované vo vol. 194.
- ADCA53 DVUREČENSKIJ, Anatolij. States on quantum and algebraic structures and their integral representation. In *Fuzzy Sets and Systems*, 2015, vol. 259, s. 56-67. (1.986 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0165-0114.
- ADCA54 DVUREČENSKIJ, Anatolij - KRŇÁVEK, J. The lexicographic product of po-groups and nperfect pseudo effect algebras. In *International Journal of Theoretical Physics*, 2013, vol. 52, s. 2760-2772. (1.086 - IF2012). (2013 - Current Contents). ISSN 0020-7748.

- ADCA55 FEČKAN, Michal - POSPÍŠIL, Michal. Bifurcation of sliding periodic orbits in periodically forced discontinuous systems. In *Nonlinear Analysis: Real World Applications*, 2013, vol. 14, p. 150-162. (2.201 - IF2012). (2013 - Current Contents). ISSN 1468-1218.
- ADCA56 FEČKAN, Michal - POSPÍŠIL, Michal. Bifurcation from single periodic orbit in discontinuous autonomous systems. In *Applicable Analysis*, 2013, vol. 92, no. 6, s. 1085-1100. (0.710 - IF2012). (2013 - Current Contents). ISSN 0003-6811.
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- ADCA59 FEČKAN, Michal - KELEMEN, Sándor. Discretization of Poincaré map. In *Electronic Journal of Qualitative Theory of Differential Equations*, 2013, no. 60, s. 1-33. (0.740 - IF2012). (2013 - Current Contents). ISSN 1417-3875.
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