

Е 03/1.1:

Научни публикации, които са реферирани и индексирани в световната система за реферирание, индексирание и оценяване - публикувани

- **Звено: (ИМИ) Институт по математика и информатика**

- **Тип на публикацията:**

Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение

- **Реферира се:**

ZentralBlatt
MathSciNet
ВИНИТИ
SCOPUS
Web of Science
ERIH PLUS
Друга база (напишете името ѝ в "Забележката")

- **Година на публикуване:** 2016 ÷ 2016

- **Тип записи:** Всички записи

1. Акча, Н, Sarr, M., **Covachev, V.** Numerical methods for solution of impulsive differential equations and stability analysis. Far East Journal of Mathematical Sciences, 99, 12, 2016, ISSN:0972-0871, 1955-1970. SJR:0.24
2. Акча, Н., Benbourenane, J., **Covachev, V.** Complex harmonic splines and applications. Far East Journal of Mathematical Sciences, 99, 12, 2016, 1911-1920. SJR:0.24
3. Aleksieva, Y., **Ganchev, G., Milousheva, V.** On the Theory of Lorentz Surfaces with Parallel Normalized Mean Curvature Vector Field in Pseudo-Euclidean 4-Space. Journal of the Korean Mathematical Society, 53, 5, 2016, ISSN:0304-9914, 1077-1100. ISI IF:0.356
4. **Apostolov, Vestislav**, Calderbank, David, Gauduchon, Paul. Ambitoric geometry I: Einstein metrics and extremal ambikähler structures. Journal für die reine und angewandte Mathematik, 721, De Gruyter, 2016, DOI:DOI 10.1515/crelle-2014-0060, 109-147. ISI IF:1.43
5. **Apostolov, Vestislav**, Dloussky, Georges. Locally Conformally Symplectic Structures on Compact Non-Kähler Complex Surfaces. International Mathematics Research Notices, 9, Oxford Journals, 2016, DOI:10.1093/imrn/rnv211, 2717-2747. ISI IF:1.1
6. **Arapi, P., Paneva-Marinova, D., Pavlov, R.**, Christodoulakis, S.. Techniques to Personalized Observation and Improved Learning Experience in Digital Libraries. Proceeding of the International Conference on e-Learning'16, September 2016, Bratislava, Slovakia, 2016, ISSN:2367-6698, 94-100

7. Arslan, K., **Milousheva, V.** Meridian surfaces of elliptic or hyperbolic type with pointwise 1-type Gauss map in Minkowski 4-space. *Taiwanese Journal of Mathematics*, 20, 2, 2016, ISSN:1027-5487, DOI:10.11650/tjm.19.2015.5722, 311-332. ISI IF:0.621
8. Atanasova, T.V., **Poryazov, S.A., Saranova, E.T.** Problems with quality enabling of information functions composition in smart buildings. IEEE Catalog Number: CFP1698P-CDR, IEEE, 2016, ISBN:978-1-5090-4086-5/16, 33-36
9. **Barov, S.**, Dijkstra J.J.. On exposed points and extremal points of convex sets in \mathbb{R}^n and Hilbert space. *Fundamenta Mathematicae*, 2, 232, Instytut Matematyczny PAN, 2016, ISSN:0016-2736, DOI:10.4064/fm232-2-2, 117-129. ISI IF:0.553
10. **Bazhlekov, I., Vasileva, D.** Numerical modeling of drop coalescence in the presence of soluble surfactants. *Journal of Computational and Applied Mathematics*, 293, Elsevier, 2016, ISSN:0377-0427, DOI:doi:10.1016/j.cam.2015.04.013, 7-19. SJR:1.104, ISI IF:1.266
11. **Bazhlekova, E, Bazhlekov, I.** Peristaltic transport of viscoelastic bio-fluids with fractional derivative models. *Biomath*, 5, 1, 2016, DOI:http://dx.doi.org/10.11145/j.biomath.2016.05.161
12. **Bazhlekova, E, K. Tsocheva.** Fractional Burgers' model: thermodynamic constraints and completely monotonic relaxation function. *C. R. Acad. Bulg. Sci.*, 69, 7, 2016, 825-834. ISI IF:0.233
13. **Bogdanova G., Todorov T. Y., Noev N.** Using Graph Databases to Represent Knowledge Base in the Field of Cultural Heritage. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016*, VI, 6, Institute of mathematics and informatics, BAS, 2016, ISSN:1314-4006, 199-206
14. Bontchev, B., **Paneva-Marinova, D., Draganov, L.** An Educational 3D Maze Game for Bulgarian Orthodox Iconography. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016*, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 283-284
15. **Borislav Yordanov**, Grozdna Todorova, Petronela Radu. The Generalized Diffusion Phenomenon and Applications. *SIAM Journal of Mathematical Analysis (SIMA)*, SIAM, 2016, SJR:1.99
16. **Borissov Y., Boyvalenkov, P., Tsenkov, R.** Linear Cryptanalysis and Modified DES with Embedded Parity Check in the S-boxes. *Lecture Notes in Computer Science*, 9540, Springer, 2016, ISSN:16113349 (electronic), 03029743, DOI:10.1007/978-3-319-29171-7, 60-78. SJR:0.34
17. **Borissov, Y., Boyvalenkov, P., Tsenkov, R.** On a Linear Cryptanalysis of a Family of Modified DES Ciphers with Even Weight S-boxes. *Cybernetics and Information Technologies*, 16, 4, Institute of Information and Communication Technologies - BAS, 2016, ISSN:1311-9702, DOI:10.1515/cait-2016-0063, 3-12. SJR:0.17
18. **Borissov, Y.L.** Some new results on Hadamard modulo prime matrices. *Problems of Information Transmission*, 52, 2, Springer, 2016, DOI:10.1134/S0032946016020034, 134-141. ISI IF:0.632
19. **Boyvalenkov P.**, D. Hardin, P. Dragnev, E. Saff, M. Stoyanova. Universal lower bounds for potential energy of spherical codes. *Constructive Approximation*, 44, 3, Springer US, 2016, ISSN:0176-4276 (Print) 1432-0940 (Online), DOI:10.1007/s00365-016-9327-5, 385-415. SJR:1.029, ISI IF:1.346

20. **Boyvalenkov P.**, P. Dragnev, D. Hardin, E. Saff, M. Stoyanova. Lower Energy Bounds for Antipodal Spherical Codes and for Codes in Infinite Projective Spaces. Proceedings, XV International Symposium "Problems of Redundancy in Information and Control Systems", IEEE, 2016, ISBN:978-1-5090-4231-9, DOI:10.1109/RED.2016.7779322, 28-32. SJR:0.108
21. **Dalakov, P.** Meromorphic Higgs bundles and related geometries. Journal of Geometry and Physics, 109, Elsevier, 2016, DOI:10.1016/j.geomphys.2016.01.005, 44-67. ISI IF:0.752
22. **Davidov J.**, Haq A., **Mushkarov O.** Harmonic proper almost complex structures on Walker 4-manifolds. Compt. Rend. Acad. Bulg. Sci., 69, 2, BAS, 2016, ISSN:1310-1331, 127-134. ISI IF:0.284
23. **Davidov J.** Normality of the twistor space of a 5-manifold with an irreducible $SO(3)$ -structure. Mediterranean Journal of Mathematics, 13, 1, Springer, 2016, ISSN:1660-5446, DOI:10.1007/s00009-014-0477-z, 413-442. ISI IF:0.599
24. **Davidov, J.**, Yankov C.. Contact twistor spaces and almost contact metric structures. Mediterranean Journal of Mathematics, 13, 5, Springer, 2016, ISSN:1660-5446, DOI:10.1007/s00009-016-0709-5, 3691-3710. ISI IF:0.599
25. **Derzhanski I.**, **Siruk O.** Affinal Kinship Terminology in the Corpus of Bulgarian and Ukrainian Parallel Texts. Digital Presentation and Preservation of Cultural and Scientific Heritage. International UNESCO Conference, Veliko Tarnovo, Bulgaria, September 26-28, 2016. Proceedings, 6, IMI-BAS, 2016, ISSN:1314-4006, 169-177
26. **Derzhanski I.**, **Siruk O.** "While" and "Until" Clauses and Expletive Negation in a Corpus of Bulgarian and Ukrainian Parallel Texts. Proceedings of the Second International Conference Computational Linguistics in Bulgaria, IBL—BAS, 2016, ISSN:2367-5675, 11-18
27. Dilworth, S., **D. Kutzarova**, N. Lovasoa Randrianarivony, **J.P. Revalski**, **N. V Zhivkov**. Lenses and Asymptotic Midpoint Uniform Convexity. Journal of Mathematical Analysis and Applications, 436, 2016, 810-8121. ISI IF:1.12
28. Dilworth, S., **Kutzarova, D.**, Randrianarivony, N. L.. The transfer of property (β) of Rolewicz by a uniform quotient map. 368, Trans. Amer. Math. Soc., 2016, 6253-6270. ISI IF:1.31
29. **Dimitrova L.** What New Information Can Be Obtained from the Bulgarian-Polish Digital Resources. Semantyka a konfrontacja językowa, V, SOW, Warsaw, Poland, 2016, ISBN:978-83-64031-25-0, 103-115
30. **Dimova M.**, **Kolkovska N.**, **Kutev N.** Revised concavity method and application to Klein-Gordon equation. FILOMAT, 30:3, 2016, DOI:DOI 10.2298/FIL1603831D, 831-839. ISI IF:0.638
31. Dineva P., **Rangelov T.** Wave scattering by cracks at macro- and nano- scale in anisotropic plane by BIEM. Journal of Theoretical and Applied Mechanics, 46, 4, 2016, 19-35. SJR:0.307
32. Domokos, M., **Drensky, V.** Noether bound for invariants in relatively free algebras. J. Algebra, 463, Elsevier, 2016, 152-167. ISI IF:0.599
33. **Drensky V.** Invariant theory of relatively free right-symmetric and Novikov algebras. Mathematical Journal, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan, 16, 2 (60), 2016, 145-158

34. **Drensky, V.**, Koshlukov, P., Machado, G. G.. GK-dimension of the Lie algebra of generic 2×2 matrices. *Publicationes Mathematicae-Debrecen*, 89, 1-2, 2016, ISSN:print: ISSN 0033 - 3883, online: ISSN 2064 - 2849, 125-135. ISI IF:0.503
35. **Dutsova, R.**. Digital Presentation of Bulgarian Language Heritage - Tools and Web-applications. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage*, Veliko Tarnovo, Bulgaria, September 26-28, 2016, 6, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 161-168
36. Elena G. Shatko, **Galina Bogdanova, Todor Todorov**. Digital Archive of Cultural-Historic Heritage of Belarus: Certification of Bells Cast During 16th-19th Centuries. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage*, Veliko Tarnovo, Bulgaria, September 26-28, 2016, VI, 6, Institute of mathematics and informatics, BAS, 2016, ISSN:1314-4006, 213-218
37. Fonf, V.P., Somaglia, J., **Troyanski, S.**, Zanco, C.. Almost overcomplete and almost overtoral sequences in Banach spaces II. *Journal of Mathematical Analysis and Applications*, 434, 1, 2016, DOI:10.1016/j.jmaa.2015.09.002, 84-92. SJR:1.206, ISI IF:1.12
38. **Ganchev, G., Milousheva, V.**. Meridian Surfaces of Elliptic or Hyperbolic Type in the Four-dimensional Minkowski Space. *Math. Commun.*, 21, 1, 2016, ISSN:1331-0623, 1-21. ISI IF:0.284
39. **Ganchev, G., Milousheva, V.**. Meridian Surfaces of Parabolic Type in the Four-dimensional Minkowski Space. *Geometry, Integrability and Quantization*, I. Mladenov, G. Meng and A. Yoshioka (Eds), Avangard Prima, 2016, ISSN:1314-3247, DOI:10.7546/giq-17-2016-243-255, 243-255
40. Gavrilov, Lubomir, **Iliya D. Iliev**. Cubic perturbations of elliptic Hamiltonian vector fields of degree three. *J Differential Equations*, 260, 5, Elsevier, 2016, ISSN:0022-0396, DOI:10.1016/j.jde.2015.10.052, 3963-3990. ISI IF:1.821
41. **George Yanev**, Santanu Chakraborty. A Characterization of exponential distribution and the Sukhatme-Renyi decomposition of exponential maxima. *Statistics and Probability Letters*, 110, Elsevier, 2016, ISSN:0167-7152, DOI:10.1016/j.spl.2015.12.004, 94-102. SJR:0.716, ISI IF:0.595
42. **Georgiev V.**, Anna Rita Giammetta. ON WAVE OPERATOR IMAGE OF PERTURBED HAMILTONIANS ON THE LINE. *PLISKA Studia Mathematica*, 26, 2016, ISSN:0204-9805, 29-52
43. **Georgiev V.**, N. Tzvetkov, N. Visciglia. On the regularity of the flow map associated with 1D cubic periodic Half Wave equation. *Differential and Integral Equations*, 29, 1/2, Khayyam Publishing, 2016, ISSN:0893 – 4983, 183-200
44. **Georgiev V.**, N. Tzvetkov, N. Visciglia. On the regularity of the flow map associated with 1D cubic periodic Half Wave equation. *Differential and Integral Equations*, 29, 1/2, Khayyam Publishing, 2016, ISSN:0893-4983, 183-200. ISI IF:0.81
45. **Georgiev V.**, P. Acquistapace, A.P. Candeloro, M.M. Manca. Mathematical Phase Model of Neural Populations Interaction in Modulation of REM/NREM Sleep. *Math. Model. Anal*, 21, 6, Taylor and Fransis online, 2016, ISSN:1392-6292, 794-810
46. **Georgieva, I.**, C. Hofreither. An Algorithm for Low-rank Approximation of Bivariate Functions Using Splines. *Journal of Computational and Applied Mathematics*, 310, Elsevier, 2016, ISSN:0377-0427, DOI:http://dx.doi.org/10.1016/j.cam.2016.03.023, 80-91. ISI IF:1.328

47. **Georgieva, I.**, C. Hofreither. On best uniform approximation by low-rank matrices. *Linear Algebra and its Applications*, 518, Elsevier, 2016, ISSN:0024-3795, DOI:<http://dx.doi.org/10.1016/j.laa.2016.12.034>, 159-176. ISI IF:0.965
48. **Gerdjikov V. S.**, D. M. Mladenov, **A. A. Stefanov**, S. K. Varbev. MKdV Equations Related to the $D_4^{(2)}$ Algebra. *Rom. Jour. Phys*, 61, 1-2, 2016, ISSN:1221-146X, 110-123. ISI IF:1.398
49. **Gerdjikov V. S.**, G. G. Grahovski, R. I. Ivanov. On the N-wave Equations with PT-symmetry. *Theoretical and Mathematical Physics*, **188** No. 3, 1305–1321 (2016);, 188, 3, Springer, 2016, DOI:10.1134/S0040577916090038, ISI IF:0.831
50. **Gerdjikov V. S.**, M. D. Todorov, A. V. Kyuldjiev. Adiabatic Interactions of Manakov Soliton -- effects of cross-modulation. Special issue of *Wave Motion*, Elsevier, 2016, DOI:<http://dx.doi.org/10.1016/j.wavemoti.2016.08.004>, ISI IF:1.449
51. **Gerdjikov V. S.**, R. Ivanov, G. Grahovski. On Integrable Wave Interactions and Lax pairs on symmetric spaces. Special issue of *Wave Motion*, Elsevier, 2016, DOI:<http://dx.doi.org/10.1016/j.wavemoti.2016.07.012>, ISI IF:1.449
52. **Gerdjikov V. S.** On Kaup-Kupershmidt type equations and their soliton solutions. *Nuovo Cimento C* **38C** 161 (2016)., 2016, DOI:10.1393/ncc/i2015-15161-7, ISI IF:0.6
53. **Gerdjikov V.S.**, **A. A. Stefanov**. New types of two component NLS-type equations. *Pliska Studia Mathematica*, 26, IMI, 2016, ISSN:0204-9805, 53-66
54. **Goynov, M.**, **Rangochev, K.**, **Paneva-Marinova, D.**, **Sapundjiev, V.** Tracking Interoperability Service in Digital Libraries for Orthodox Art and Knowledge. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage*, Veliko Tarnovo, Bulgaria, September 26-28, 2016, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 137-146
55. Grigorova D., **Gueorgieva**. Correlated probit analysis of repeatedly measured ordinal and continuous outcomes with application to the Health and Retirement Study. *Statistics in Medicine*, 35, 23, Wiley, 2016, ISSN:1097-0258, DOI:10.1002/sim.6982, 4202-4225. SJR:1.81, ISI IF:1.533
56. Gudelj, I, Kinnersley, M, **Rashkov, P**, Schmidt, K, Rosenzweig, F. Stability of Cross-Feeding Polymorphisms in Microbial Communities. *PLOS Comput Biol*, 12, 12, PLOS, 2016, ISSN:1553-734X, DOI:10.1371/journal.pcbi.1005269, e1005269. SJR:3.405, ISI IF:4.587
57. **Guelev, D. P.** Refining Strategic Ability in Alternating-time Temporal Logic. *Information and Computation*, Elsevier, 2016, ISSN:0890-5401, DOI:<http://dx.doi.org/10.1016/j.ic.2016.10.013>, SJR:1.029, ISI IF:0.604
58. **Harizanov, S.**, **Georgiev, I.** Fast Algorithm for Optimal Graph-Laplacian Based 3D Image Segmentation. *AIP Conference Proceedings*, 1773, 2016, ISBN:978-073541431-0, ISSN:0094-243X, DOI:10.1063/1.4965010, 110006. SJR:0.198
59. **Horozov, E.** Automorphisms of algebras and Bochner's property for vector orthogonal polynomials. *SIGMA (Symmetry, Integrability and Geometry: Methods and Applications)*, 12, 2016, ISSN:1815-0659, DOI:10.3842/SIGMA.2016.050, 1-16. ISI IF:1.04

60. **Iliev A.I., Stanchev, P.** Personalizing content using voice in a digital asset ecosystem. 12, 5, International Journal of Innovative Research in Science, Engineering and Technology, 2016, ISI IF:6.209
61. **Iliev, A., Kyurkchiev, N., Markov, S.** Approximation of the cut function by Stannard and Richards sigmoid functions. IJPAM, 109, 1, 2016, ISSN:1311-8080, DOI:10.12732/ijpam.v109i1.9, 119-128. SJR:0.299
62. **Iliev, A.I.** Emotion Recognition in Speech using Inter-Sentence Time-Domain Statistics. 3, 5, International Journal of Innovative Research in Science, Engineering and Technology, 2016, ISSN:2319-8753, DOI:DOI:10.15680/IJIRSET.2016.0503100, 3245-3254. ISI IF:6.209
63. **Ivanov G.,** Nikolai Nikolov, Svetla Nikova. Cryptographically strong S-boxes generated by modified immune algorithm. Lecture Notes in Computer Sciences, Proceedings, Cryptography and Information Security in the Balkans, 9540, Springer, 2016, ISSN:0302-9743, 31-44. SJR:0.34
64. **Ivanov G.,** Nikolai Nikolov, Svetla Nikova. Reversed genetic algorithms for generation of bijective s-boxes with good cryptographic properties. Cryptography and Communications, 8, 2, Springer, 2016, ISSN:1936-2447, DOI:10.1007/s12095-015-0170-5, 247-276. SJR:0.55, ISI IF:0.742
65. **Ivanov K.G., P. Petrushev.** Highly effective stable evaluation of bandlimited functions on the sphere. Numerical Algorithms, 71, 3, Springer, 2016, ISSN:1572-9265, DOI:10.1007/s11075-015-0011-9, 585-611. ISI IF:1.417
66. **Ivanova K.B., Saranova E., Markov K., Karastanev S..** A Method for Evaluation of Informational Services - Step 1: Computing the Hardware Proportionality Constants. International Journal "Information Technologies & Knowledge", Volume 10, Number 2, ITHEA, 2016, ISSN:ISSN 1310-0513, 103-110
67. Janabekova, S. K., **Covachev, V.,** Akça, H.. Time-periodic solutions of a problem of phase transitions. Far East Journal of Mathematical Sciences, 99, 12, 2016, 1947-1953. SJR:0.24
68. **Kiryakova, V., Dimovski. I.,** Luchko, Yu.. Obrechhoff integral transform and its relation to generalized fractional calculus. Proc. "International Conference on Fractional Differentiation and its Applications, Novi Sad, Serbia, 2016", 2016, Serbian Soc. of Mechanics and Faculty of Techn. Sci. Novi Sad, 2016, ISBN:978-86-7892-830-7, 46-50
69. **Kiryakova, V.,** Machado, JAT, Mainardi, F., Atanackovic, T.. Fractional Calculus: D'ou venons-nous? Que sommes-nous? Ou allons-nous?. Fractional Calculus and Applied Analysis, 19, 5, De Gruyter, 2016, ISSN:1311-0454, 1314-2224, DOI:10.1515/fca-2016-0059, 1074-1104. SJR:1.602, ISI IF:2.246
70. **Kiryakova, V..** Fractional calculus transmutation for the Airy WKB solutions and Stokes phenomenon. American Institute of Physics – Conf. Proc., 1789, Art. # 050005, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968489, 1-10. SJR:0.198
71. Kolb,M., **Savov, M.** Transience and recurrence of a Brownian path with limited local time. Annals of Probability, 2016, ISI IF:1.5
72. **Kolev E. M.** On the cardinality of optimal t-deletion-correcting binary codes of length $2t + 3$. India Global Journal of Pure and Applied Mathematics, Volume 12, Number 1, Research India Publications, 2016, ISSN:ISSN 0973-1768., 243-251. SJR:0.223

73. **Kolkovska, N.**, Ayriyan, A., Donets, E., Lebedev, A.. Algorithm for Solving the Optimization Problem for the Temperature Distribution on a Plate. 108, EPJ Web of Conferences, 2016
74. **Kolkovska, N.** Numerical Evaluation of 2D Ground States. 108, EPJ Web of Conferences, 2016
75. **Kovacheva, R.K.** Exactly maximally convergent multipoint Pade' approximants. American Institute of Physics – Conf. Proc., 1789, Art. # 050004, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:0.1063/1.4968488, 1-8. SJR:0.198
76. **Kovacheva, S., Dimitrova, L.,** Pezhgorski, K.. E-learning Environment UNESCO Bulgarian Architectural Heritage Sites. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, 6, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 191-198
77. **Kovacheva, S.** Presentation of UNESCO Bulgarian Cultural Heritage Sites as Knowledge System in a Learning Environment. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, 6, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 179-188
78. Krassimir D. Danov, Stefka N. Dimova, **Tihomir B. Ivanov**, Javor K. Novev. Shape analysis of a rotating axisymmetric drop in gravitational field: Comparison of numerical schemes for real-time data processing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 489, Elsevier, 2016, DOI:http://dx.doi.org/10.1016/j.colsurfa.2015.10.028, 75-85. ISI IF:2.752
79. **Kutev N., Dimova M., Kolkovska N.** Global Solvability to double dispersion equation with Bernoulli type nonlinearity via one parametric family of potential wells. Pliska Stud. Math., 26, Insitute of Mathematics and Informatics - BAS, 2016, ISSN:0204-9805, 123-132
80. **Kutev N., Kolkovska N., Dimova M.** Nonexistence of global solutions to new ordinary differential inequality and applications to nonlinear dispersive equations. Mathematical Methods in the Applied Sciences, 39, 9, John Wiley & Sons, 2016, DOI:10.1002/mma.3639, 2287-2297. ISI IF:0.918
81. **Kutev N., Kolkovska N., Dimova M.** Sign-preserving functionals and blow-up to Klein–Gordon equation with arbitrary high energy. Applicable Analysis, 95, 4, Taylor & Francis, 2016, ISSN:ISSN:0003-6811, DOI:10.1080/00036811.2015.1038994, 860-873. ISI IF:0.803
82. **Kutev N.,** Tabakova S., Radev S.. Velocity and shear rate estimates of some non-Newtonian oscillatory flows in tubes. AIP Conference Proceedings, 1773, 2016, ISSN:0094-243X, DOI:10.1063/1.4964986, 080002-1-080002-8. SJR:0.198
83. **Kutev, N., Kolkovska, N., Dimova, M.** Finite time blow up of the solutions to Boussinesq equation with linear restoring force and arbitrary positive energy. Acta Mathematica Scientia, 2016, ISSN:0252-9602, DOI:10.1016/S0252-9602(16)30047-9, 881-890. ISI IF:0.742
84. **Kyurkchiev, N, Markov, S.** On the numerical solution of the general kinetic “K-angle” reaction system. Journal of Mathematical Chemistry, 54, 3, Springer, 2016, ISSN:Online ISSN 1572-8897 Print ISSN 0259-9791, DOI:DOI:10.1007/S10910-016-0592-0, 792-805. ISI IF:1.056
85. **Kyurkchiev, N., Markov, S.,** Mincheva, M.. Analysis of biochemical mechanisms using MATHEMATICA with applications. Serdica J. Computing, 10, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 2016, ISSN:1312-6555

86. **Kyurkchiev, N.** A note on the new geometric representation for the parameters in the fibril elongation process. *C. R. Acad. Bulg. Sci.*, 69, 8, 2016, ISSN:1310-1331, 963-972. ISI IF:0.233
87. **Landjev, I.**, Rousseva, A., Storme, L.. On the Extendability of Quasidivisible Griesmer Arcs. *Designs, Codes and Cryptography*, 79, 3, Springer, 2016, ISSN:0925-1022, DOI:10.1007/s10623-015-0114-2, 535-547. SJR:0.65, ISI IF:0.781
88. **Landjev, I.**, Rousseva, A.. The Nonexistence of $(104,22;3,5)$ -arcs. *Advances in Mathematics of Communication*, 10, 3, AIMS, 2016, ISSN:1930-5346, DOI:10.3934/amc.2016029, 601-611. ISI IF:0.631
89. **Lazarov, B., Vassileva, A.** Age Factor in a Math Contest Paper for 5th and 6th Grade Students. *Математически Билтен*, 40(LXVI), 2, 2016, ISSN:0351-336X (print), 1857-9914 (online), 57-64
90. Liolios A., A. Morupoulou, A. Liolios, Kr. Georgiev, **I. Georgiev**. A Computational Approach for the Seismic Sequences Induced Response of Cultural Heritage Structures Upgraded by Ties. *Studies in Computational Intelligence*, 648, Springer Verlag, 2016, ISSN:1860-949X, DOI:10.1007/978-3-319-32207-0_4, 47-58. SJR:0.187
91. Liolios, K., Tsihrintzis, V., Angelidis P., Georgiev K., **Georgiev I.** Numerical simulation for horizontal subsurface flow constructed wetlands: A short review including geothermal effects and solution bounding in biodegradation procedures. *AIP Conference Proceedings*, 1773, American Institute of Physics Publishing LLC, 2016, ISSN:0094243X, DOI:http://dx.doi.org/10.1063/1.4965013, 110009-1-110009-13. SJR:0.198
92. Liolios, K., Tsihrintzis, V., Georgiev, K., **Georgiev, I.** A Computational Investigation of the Optimal Reaction Type Concerning BOD Removal in Horizontal Subsurface Flow Constructed Wetland. *Studies in Computational Intelligence*, 648, Springer Verlag, 2016, ISSN:1860949X, DOI:http://dx.doi.org/10.1007/978-3-319-32207-0_3, 29-45. SJR:0.187
93. Louzada, E.S., Vazquez, O.Ed., Braswell, W.E., **Yanev, G.**, Devanaboina, M., Kunta, M.. Distribution of 'Candidatus Liberibacter Asiaticus' above and below ground in Texas Citrus. *Phytopathology*, 106, 7, The American Phytopathological Society, 2016, ISSN:0031-949X, 702-709. ISI IF:3.011
94. **Luchev, D., Paneva-Marinova, D., Pavlov, R.**, Kaposi, G., Márkus, Z., Szántó, G., Szkaliczki, T., Veres, M.. Game-based Learning of Bulgarian Iconographical Art on Smart Phone Application. *Proceeding of the International Conference on e-Learning'16*, September, 2016, Bratislava, Slovakia, 2016, ISSN:2367-6698, 195-200
95. **Milousheva, V.**, Turgay, N.C.. Quasi-minimal Lorentz Surfaces with Pointwise 1-type Gauss Map in Pseudo-Euclidean 4-Space. *Journal of Geometry and Physics*, 106, 2016, ISSN:0393-0440, DOI:http://dx.doi.org/10.1016/j.geomphys.2016.03.023, 171-183. ISI IF:0.87
96. **Minchev, Z.**, Boyanov, L.. System Modelling & Experimental Assessment of IoT Cyberthreats in Future Smart Homes. *Proceedings of ICAICTSEE – 2015*, Sofia, UNWE, November 13-14, 2015, UNWE Publishing House, 2016, ISSN:2367-7643, DOI:10.13140/RG.2.1.1210.0887, 533-540
97. **Minchev, Z.** Challenges to Human Factor for Advance Persistent Threats Proactive Identification in Modern Social Networks. *Information & Security. An International Journal*, 34, Procon Ltd., 2016, ISSN:1314-2119, DOI:10.11610/isij.3404, 57-70

98. **Minchev, Z.** Cyber Threats Identification in the Evolving Digital Reality. Proceedings of Ninth National Conference "Education and Research in the Information Society", АРНО, ИМИ-БАН, 2016, ISSN:1314-0752, DOI:10.13140/RG.2.1.3719.3842, 11-22
99. **Minchev, Z.** Foreseeing of Hybrid Security Trends in the Eastern Partnership Wider Context. The Eastern Partnership and civil security issues of the member states: past realities and present trends, Bucharest, Romania, Editura Militara, 2016, ISBN:978-973-32-1036-8, DOI:10.13140/RG.2.2.35534.46402, 444, 224-237
100. **Minchev, Z.** Methodological Approach for Modelling, Simulation & Assessment of Complex Discrete Systems. Proceedings of National Informatics Conference Dedicated to the 80th Anniversary of Prof. Barnev, IMI-BAS, Sofia, November 12-13, 2015, IMI-BAS, 2016, ISBN:978-954-8986-45-8, DOI:10.13140/RG.2.1.1865.4481, 102-110
101. Mitov, K. V., **Yanev, N. M.** LIMITING DISTRIBUTIONS FOR ALTERNATING REGENERATIVE BRANCHING PROCESSES. C. R. Acad. Bulg. Sci., 69, 10, 2016, 1251-1262. SJR:0.296, ISI IF:0.233
102. **Mushkarov, O.**, Yankov, C.. Partial integrability of almost complex structures on Thurston Manifolds. Annales Polonici Mathematici, 118, 2-3, PAN, 2016, ISSN:0066-2216(p) 1730-6272(e), DOI:10.4064/ap4046-11-2016, 141-148. ISI IF:0.35
103. **Mutafchiev, Ljuben.** On the distribution of the number of Goldbach partitions of a randomly chosen positive integer. Electronic Notes in Discrete Mathematics, 54, Elsevier, 2016, ISSN:1571-0653, DOI:10.1016/j.endm.2016.09.02, 3-8. SJR:0.32
104. Márkus, Z., Kaposi, G., Veres, M., Szkaliczki, T., **Luchev, D.**, **Paneva-Marinova, D.** BOOK@HAND Bells: Mobile Presentation of the Valuable Bells of the Historic and Culture Heritage of Bulgaria. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, Institute of Mathematics and Informatics - BAS, 2016, ISSN:1314-4006, 73-80
105. Nguyen-Tuan, L., Lahmer, T., Datcheva, M., **Stoimenova, E.**, Schanz, T.. A novel parameter identification approach for buffer elements involving complex coupled thermo-hydro-mechanical analyses. Computers and Geotechnics, 76, Elsevier, 2016, ISSN:0266-352X, DOI:http://dx.doi.org/10.1016/j.compgeo.2016.02.005, 23-32. ISI IF:1.705
106. **Nikolov N, M.** Trybula, **L. Andreev.** Boundary behavior of invariant functions on planar domains. Complex Var. Elliptic Equ., 61, 8, 2016, ISSN:1747-6933 (p) 1747-6941 (e), DOI:10.1080/17476933.2015.1136823, 1064-1072. ISI IF:0.466
107. **Nikolov N, M.** Trybula. Estimates of the Bergman distance on Dini-smooth bounded planar domains. 67, Collect. Math., 2016, ISSN:0010-0757(p) 2038-4815(e), DOI:10.1007/s13348-015-0150-2, 407-414. ISI IF:0.593
108. **Nikolov N, P. J.** Thomas, D.-A. Tran. Lifting maps from the symmetrized polydisc in small dimensions. Complex Anal. Oper. Theory, 10, 5, 2016, ISSN:1661-8254 (p) 1661-8262 (e), DOI:10.1007/s11785-015-0495-2, 921-941. ISI IF:0.663
109. **Nikolov N, P. J.** Thomas, M. Trybula. Gromov (non)hyperbolicity of certain domains in C^2 . Forum Math., 28, 4, 2016, ISSN:0933-7741 (p) 1435-5337 (e), DOI:10.1515/forum-2014-0113, 783-794. ISI IF:0.823

110. **Nikolov N.** On a lower bound of the Kobayashi metric. Proc. Amer. Math. Soc., 144, 10, 2016, ISSN:0002-9939 (p) 1088-6826 (e), DOI:10.1090/proc/13072, 4393-4394. ISI IF:0.7
111. Nikolova, S., Toneva, D., **Georgiev, I.**, Yordanov, Y., Lazarov, N.. Two cases of large bregmatic bone along with a persistent metopic suture from necropoles on the northern Black Sea coast of Bulgaria. Anthropological Science, 124, 2, The Anthropological Society of Nippon, 2016, ISSN:0918-7960, DOI:http://doi.org/10.1537/ase.160530, 145-153. SJR:0.543, ISI IF:0.703
112. **Nisheva M.**, Pavlov P., **Stanchev P.**. Semantic Search in Heterogeneous Digital Repositories: Case Studies. UNESCO Digital Presentation and Preservation of Cultural and Scientific Heritage conference, 6, IMI-BAS, 2016, ISSN:1314-4006, 65-72
113. **Nisheva-Pavlova, M.**, Shukerov, D., Pavlov, P.. Design and Implementation of a Social Semantic Digital Library. Information Services and Use, 35, 4, IOS Press, 2016, ISSN:1875-8789, 273-284. SJR:0.3
114. **Noev N., Bogdanova G., Todorov T. Y.**. Towards Better Presenting and Searching of Bells Knowledge. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, VI, Institute of mathematics and informatics, BAS, 2016, ISSN:1314-4006, 207-212
115. **Paneva-Konovska, J.** Periphery behaviour of series in Mittag-Leffler type functions, I. Intern. J. Appl. Math., 29, 1, Academic Publications, 2016, ISSN:1311-1728, 1314-8060, DOI:10.12732/ijam.v29i1.6, 69-78
116. **Paneva-Konovska, J.** Periphery behaviour of series in Mittag-Leffler type functions, II. Intern. J. Appl. Math., 29, 2, Academic Publications, 2016, ISSN:1311-1728, 1314-8060, DOI:10.12732/ijam.v29i2.2, 175-186
117. **Paneva-Konovska, J.**, Nikolova, Y.. Laplace transform approach for solving integral equations using Computer Algebra System. American Institute of Physics – Conf. Proc., 1789, Art. # 050008, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968492, 1-9. SJR:0.198
118. **Paneva-Konovska, J.**. On some Mittag-Leffler series: A set of overconvergence theorems. American Institute of Physics – Conf. Proc., 1789, Art. # 050007, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968491, 1-6. SJR:0.198
119. **Pashkouleva, D.**. A Note on Some Classes of Functions Related to the Class of Convex Functions. International Journal of Applied Mathematics (IJAM), 29, 3, Academic Publications, 2016, ISSN:1311-1728; 1314-8060/e, DOI:10.12732/ijam.v29i3.3, 309-316
120. **Popivanov P, N. Nikolov.** On the Dirichlet problem to the Liouville equation. Explicit formulas. Compt. Rend. Acad. Bulg. Sci., 69, 11, 2016, ISSN:1310–1331 (p) 2367–5535 (e), 1389-1400. ISI IF:0.233
121. **Popivanov P., G. Boyadzhiev, Y. Markov.** Existence of classical solutions of quasi-linear non-cooperative elliptic systems. Journal of Pseudo-Differential Operators and Applications, Springer International Publishing (Birkhäuser Basel), 2016, ISSN:1662-999X, DOI:10.1007/s11868-016-0167-7, 1-11. ISI IF:0.444

122. **Popova, E. D.** Outer Bounds for the Parametric Controllable Solution Set with Linear Shape. Lecture Notes in Computer Science, 9553, Springer International Publishing, 2016, ISBN:978-3-319-31768-7, ISSN:0302-9743, DOI:10.1007/978-3-319-31769-4_12, 138-147. SJR:0.252
123. **Poryazov, Stoyan, Saranova, Emiliya.** User-oriented Overall Traffic, and Time Efficiency Indicators in Telecommunications. IEEE Catalog Number: CFP1698P-CDR, IEEE, 2016, ISBN:978-1-5090-4086-5/16, 90-93
124. **RK Yordanova,** Putman AH, Wolen AR, Harenza J, Chesler EJ, Miles MF. Identification of Quantitative Trait Loci and Candidate Genes for an Anxiolytic-like Response to Ethanol in BXD Recombinant Inbred Strains.. Genes Brain Behav., Mar 7, gbb.12289, 2016, DOI:10.1111, SJR:1.73
125. Radenski A., Gurov T., **Kaloyanova K., Kirov N., Nisheva M., Stanchev P., Stoimenova E.** Big Data Techniques, Systems, Applications, and Platforms: Case Studies from Academia. Annals of Computer Science and Information Systems, 8, 2016, ISBN:978-83-60810-90-3, ISSN:2300-5963, DOI:10.15439/978-83-60810-90-3, 893-898
126. **Raikov, G.** Discrete spectrum for Schrödinger operators with oscillating decaying potentials. Journal of Mathematical Analysis and Applications, 438, 2, Elsevier, 2016, ISSN:0022-247X, 551-564. ISI IF:1.014
127. **Raikov, G.** Spectral asymptotics for waveguides with perturbed periodic twisting. Journal of Spectral Theory, 6, 2, EMS, 2016, ISSN:1664-039X, DOI:DOI: 10.4171/JST/126, 331-372. ISI IF:0.868
128. Rakosnik, J., **Stanchev, P., Pavlov, R.** European Digital Mathematics Library EuDML. Current State and Future Plans. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, 6, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 29-36
129. **Rashkov, P,** Barrett, IP, Beardmore, RE, Bendtsen, C, Gudelj, I. Kinase Inhibition Leads to Hormesis in a Dual Phosphorylation-Dephosphorylation Cycle. PloS Computational Biology, 12, 11, PloS, 2016, ISSN:1553-7358, DOI:10.1371/journal.pcbi.1005216, e1005216. SJR:3.405, ISI IF:4.587
130. **S. Ivanov,** H. Manev, H. Manev. Sasaki-like almost contact complex Riemannian manifolds. J. Geom. Physics, 107, Elsevier, 2016, 136-148. ISI IF:0.752
131. **Shishkov, B.B.,** Janssen, M.. Towards a Service-Oriented Architecture for eVoting. Proceedings of the Sixth International Symposium on Business Modeling and Software Design – BMSD 2016, Rhodes, Greece, June 20-22, 2016, SCITEPRESS, 2016, ISBN:978-989-758-190-8, DOI:10.5220/0006223601870195, 187-195
132. **Shishkov, B.B.,** Mitrakos, D.. Towards Context-aware Border Security Control. Proceedings of the Sixth International Symposium on Business Modeling and Software Design – BMSD 2016, Rhodes, Greece, June 20-22, 2016, SCITEPRESS, 2016, ISBN:978-989-758-190-8, DOI:10.5220/0006223802070212, 207-212
133. Shtokhov, A., Tsitovich I., **Poryazov S.** On the Method of Group Polling upon the Independent Activity of Sensors in Unsynchronized Wireless Monitoring Networks. Communications in Computer and Information Science. /Eds.V. Vishnevskiy et al., Vol. 678, Springer International Publishing AG., 2016, DOI:10.1007/978-3-319-51917-3_24., 1-13

134. **Slavova, A.,** Bobeva, G.. Local Activity in Reaction-Diffusion CNN with Memristor Synapses. Proc. IEEE, IEEE, 2016, ISBN:978-3-8007-4252-3, 87. ISI IF:5.629
135. **Slavova, A.,** Bobeva, G.. Local Activity of CNN with Dynamic Memory Synapses. C.R.Bulg.Acad.Sci., 69, 11, BAS, 2016, ISSN:1310-1331, 1401-1406. ISI IF:0.233
136. **Slavova, A.,** Ignatov, V.. CNN Computing of Piezoelectric Solid with Nano-Holes under Time-Harmonic Anti-Plane Load. Proc. IEEE, IEEE, 2016, ISBN:978-3-8007-4252-3, 81. ISI IF:5.629
137. **Slavova, A.,** Litsyn, E.. Control of chaotic behavior of integro-differential CNN model arising in piezoelectric material with nano-heterogeneities. PLISKA Studia Mathematica, 26, IMI, 2016, ISSN:0204-9805, 143-154
138. **Slavova, S.,** Agranovich, G., Litsyn E.. Stabilization of integro-differential CNN model arising in nano-structures. QUALITDE 2016, 2016, ISSN:1512-3391
139. **Slavova-Petkova, S., M. Dimova, D. Luchev.** Learning Scenario for Better Understanding of Fairy Tales Using Role-playing and Serious Games Methods. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, VI, Institute of Mathematics and Informatics - BAS, 2016, ISSN:1314-4006, 241-246
140. **Stanchev P.,** Karova Z., Zherkova Y., **Pavlov R., Simeonov G.,** Neupane B.. The Seventh National Information Day: Open Access to Scientific Information and Data. UNESCO Digital Presentation and Preservation of Cultural and Scientific Heritage conference, 6, Institute of Mathematics and Informatics-BAS, 2016, ISSN:1314-4006, 297-303
141. **Stanchev P..** Multimedia Descriptors. 5th International Conference on Multimedia Computing and Systems (ICMCS'16), 2016, 19-19
142. **Stanchev, P.,** J. Geske. Autonomous cars and vehicular networks. History. State of art. Research problems. Communications in Computer and Information Science, 601, Springer International Publishing, 2016, ISBN:978-3-319-30842-5, ISSN:1865-0929, DOI:10.1007/978-3-319-30843-2_1, 1-10
143. **Stefka Bouyuklieva,** Wolfgang Willems, Nikolay Yankov. On the automorphisms of order 15 for a binary self-dual [96, 48, 20] code. Designs, Codes and Cryptography, 79, Springer US, 2016, ISSN:1573-7586, DOI:10.1007/s10623-015-0043-0, 171-182. ISI IF:0.958
144. Stewart, R., Monova-Zheleva, M., Zhelev, Y., **Pavlov, R..** Digitalizing the Proceedings of the Bulgarian Museums, or How to Rescue from Oblivion Priceless Studies on the Cultural Heritage. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, 6, Institute of Mathematics and Informatics-BAS, 2016, 235-240
145. **Stoimenova, E.,** Balakrishnan, N.. Sidak-type tests for the two-sample problem based on precedence and exceedance statistics. Statistics: A Journal of Theoretical and Applied Statistics, Taylor & Francis, 2016, ISSN:1029-4910, DOI:http://dx.doi.org/10.1080/02331888.2016.1258071, ISI IF:0.53
146. Stoyanova, M., **Luchev, D., Paneva-Marinova, D..** Optimization of Natural Dyes' Non-contact Characterization and Interdisciplinary Application Using Ensemble Classifiers and Genetic

Algorithms. Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, VI, Institute of Mathematics and Informatics - BAS, 2016, ISSN:1314-4006, 147-160

147. **Todorov M.I.**, Goberna M.A., Guerra F.. Constraint qualifications in convex vector semi-infinite optimization. *European Journal of Operational Research*, 249, 1, 2016, ISSN:0377-2217, 32-40. ISI IF:2.358
148. Toneva D., Nikolova S., **Georgiev I.**, **Tchorbadjieff A.**. Intra- and interobserver measurement error of linear measurements on three-dimensional computed tomography models of dry mandibles.. *Acta Morphologica et Anthropologica*, 23, Prof. Marin Drinov Publishing House of Bulgarian Academy of Sciences, 2016, ISSN:0861-0509
149. Toneva, D., Nikolova, S., **Georgiev, I.** Reliability and accuracy of angular measurements on laser scanning created 3D models of dry skulls. *Journal of Anthropology*, Hindawi Publishing Corporation, 2016, ISSN:2090-4045, DOI:http://dx.doi.org/10.1155/2016/6218659
150. **Topalova S.**, **S.Zhelezova**. New regular parallelisms of PG(3,5). *Journal of Combinatorial Designs*, 24, 10, Wiley Periodicals, Inc., 2016, ISSN:1520-6610, DOI:DOI 10.1002/jcd.21526, 473-482. SJR:1.029, ISI IF:0.657
151. **Topalova, S.** On the resolutions of cyclic Steiner triple systems with small parameters. *Journal of Algebra Combinatorics Discrete Structures and Applications*, 3, 3, Yildiz Technical University, 2016, ISSN:2148-838X, DOI:10.13069/jacodesmath.47635, 201-208
152. **Tsachev, Ts., V. M. Veliov, A.** Widder. Set-membership estimations for the evolution of infectious diseases in heterogeneous populations. *Journal of Mathematical Biology*, Springer, 2016, ISSN:0303-6812 (Print) 1432-1416 (Online), DOI:10.1007/s00285-016-1050-0, ISI IF:1.716
153. **Tuparov, G.**, A. A. A. Alsabri, D. Tuparova. Students' Readiness for Mobile Learning in Republic of Yemen – a Pilot Study. *IMCL2015 International Conference on Interactive Mobile Communication, Technologies and Learning*, Thessaloniki, Greece, 19-20 November, 2015, 2016
154. **Valchev, T I.** Dressing Method and Quadratic Bundles Related to Symmetric Spaces. Vanishing Boundary Conditions. *Journal of Mathematical Physics*, 57, AIP Publishing, 2016, ISSN:0022-2488, DOI:10.1063/1.4940996, 021508-1-021508-14. ISI IF:1.243
155. Wolfgang Fenz, Johannes Dirnberger, **Ivan Georgiev**. Blood flow simulations with application to cerebral aneurysms. *Simulation Series*, 48, 6, The Society for Modeling and Simulation International, 2016, ISSN:0735-9276, 12-19
156. **Лучев, Д.** Централно и източно-европейската онлайн библиотека (CEEOL) – нови функционалности на системата и нови възможности за издателите, библиотеките и учените. *Езиков свят*, 14, 2, Университетско издателство „Неофит Рилски“, Благоевград, 2016, ISSN:1312-0484, 85-92
157. **Минчев, З.**, Тулечка, М, Владиков, Л., Дуков, Г., **Келеведжиев, Е.**, Шаламанов, В.. Хибридни предизвикателства в киберпространството и ролята на човешкия фактор. Сборник доклади от Международна научна конференция „Югоизточна Европа: новите заплахи за регионалната сигурност“, Поредица „Наука, образование, сигурност“, София, 2-3 юни, 2015, 3, НБУ, 2016, ISBN:978-954-535-907-1, DOI:10.13140/RG.2.1.1308.8403, 354-362

158. **Периклиев, Вл.** Едновременни антоними и синоними. сп. Български език, 63, 2, Българска академия на науките, 2016, ISSN:0005-4283, 105-107
159. **Периклиев, Вл.** Синонимия и семантична промяна. сп. Български език, 63, 3, Българска академия на науките, 2016, ISSN:0005-4283, 89-96
160. **Порязов, С. А.,** Нестеров, Р. А., Лядова, Л. Н.. Методи трансформации визуалних моделей процессов и систем в аналитическите модели. Перм. гос. нац. исслед. ун-т. – Пермь, Вып.13, Математика программных систем: межвуз. сб. науч. тр./ под ред. А.И. Микова и Л.Н. Лядовой, 2016, ISBN:978-5-7944-1741-8, ISSN:978-5-7944-1742-12, 12-21
161. **Рангочев, К.** Модели и моделиране на фолклорната обредност. Фолклор. Разказване. Религиозност. Юбилеен сборник в чест на Албена Георгиева, АИ "Марин Дринов", 2016, ISBN:978-954-322-863-8, 45-52
162. **Рангочев, К.** Регионални измерения на православната менталност: град Самоков. След следващата запетая. 20 години етнология в Пловдивския университет. Сборник от юбилейна научна конференция., Пловдивски университет "Паисий Хилендарски", 2016, ISBN:978-619-7249-02-6, 192-197
163. **Рангочев, К.** Фолклор и история III: Фолклорни модели за наследяване и трансформация (по материали на Кузман Шапкарев от Самоковско). Годишник на Асоциация "ОНГЪЛ", 14, Импресарско - издателска къща "РОД", 2016, ISSN:1311 – 493X, 62-80
164. **Сірук О. Б., Держанський І. О.** Дієприслівники в корпусі болгарських і українських текстів. Компаративні дослідження слов'янських мов і літератур: Пам'яті академіка Леоніда Булаховського, 28, Освіта України, 2016, ISSN:2075-437X, 135-145

ДОПЪЛНИТЕЛНИ ПУБЛИКАЦИИ (ИЗВЪН SONIX) НА АСОЦИИРАНИ ЧЛЕНОВЕ НА ИМИ, В КОИТО Е СПОМЕНАТ ИМИ-БАН

165. Averna, D., **Tersian S.**, Tornatore, E., On the existence and multiplicity of solutions for Dirichlet's problem for fractional differential equations, *Fract. Calc. Appl. Anal.*, 19, No 1, 253–266, De Gruyter, 2016, ISSN:1311-0454, 1314-2224, DOI: 10.1515/fca-2016-0014; IF: 2.246
166. Cabada, A., Precup, R., Saavedra, L., **Tersian, S.A.**, Multiple positive solutions to a fourth order boundary value problem, *Electronic Journal of Differential Equations*, 2016, Vol. 2016, 1-18, Texas State Univ., 2016, ISSN 1072-6691; IF: 0.817
167. Hong, Qingguo; Kraus, Johannes; Xu, Jinchao; **Zikatanov, Ludmil**, A robust multigrid method for discontinuous Galerkin discretizations of Stokes and linear elasticity equations, *Numer. Math.* Vol. 132 (2016), no. 1, pp.23–49, IF 1.813, doi:10.1007/s00211-015-0712-y
168. Rodrigo, C.; Gaspar, F. J.; Hu, X.; **Zikatanov, L. T.**, Stability and monotonicity for some discretizations of the Biot's consolidation model. *Comput. Methods Appl. Mech. Engrg.*, Volume 298 (2016), pp. 183–204, IF 3.467, <http://dx.doi.org/10.1016/j.cma.2015.09.019>
169. Urschel, John C.; **Zikatanov, Ludmil T.** On the maximal error of spectral approximation of graph bisection, *Linear Multilinear Algebra*, Vol. 64 (2016), no. 10, pp. 1972–1979, IF 0.761

E03/2.1:

Научни публикации, включени в издания с импакт фактор IF (Web Of Science) или импакт ранг SJR (SCOPUS) - публикувани

- **Звено: (ИМИ) Институт по математика и информатика**

- **Тип на публикацията:**

Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение

- **Статус на изданието:** С импакт фактор/ранг

- **Година на публикуване:** 2016 ÷ 2016

- **Тип записи:** Всички записи

1. Акча, Н, Sarr, M., **Covachev, V.** Numerical methods for solution of impulsive differential equations and stability analysis. Far East Journal of Mathematical Sciences, 99, 12, 2016, ISSN:0972-0871, 1955-1970. SJR:0.24
2. Акча, Н., Benbourenane, J., **Covachev, V.** Complex harmonic splines and applications. Far East Journal of Mathematical Sciences, 99, 12, 2016, 1911-1920. SJR:0.24
3. Aleksieva, Y., **Ganchev, G., Milousheva, V.** On the Theory of Lorentz Surfaces with Parallel Normalized Mean Curvature Vector Field in Pseudo-Euclidean 4-Space. Journal of the Korean Mathematical Society, 53, 5, 2016, ISSN:0304-9914, 1077-1100. ISI IF:0.356
4. **Apostolov, Vestislav**, Calderbank, David, Gauduchon, Paul. Ambitoric geometry I: Einstein metrics and extremal ambikähler structures. Journal für die reine und angewandte Mathematik, 721, De Gruyter, 2016, DOI:DOI 10.1515/crelle-2014-0060, 109-147. ISI IF:1.43
5. **Apostolov, Vestislav**, Dloussky, Georges. Locally Conformally Symplectic Structures on Compact Non-Kähler Complex Surfaces. International Mathematics Research Notices, 9, Oxford Journals, 2016, DOI:10.1093/imrn/rnv211, 2717-2747. ISI IF:1.1
6. Arslan, K., **Milousheva, V.** Meridian surfaces of elliptic or hyperbolic type with pointwise 1-type Gauss map in Minkowski 4-space. Taiwanese Journal of Mathematics, 20, 2, 2016, ISSN:1027-5487, DOI:10.11650/tjm.19.2015.5722, 311-332. ISI IF:0.621
7. **Barov, S.**, Dijkstra J.J.. On exposed points and extremal points of convex sets in \mathbb{R}^n and Hilbert space. Fundamenta Mathematicae, 2, 232, Instytut Matematyczny PAN, 2016, ISSN:0016-2736, DOI:10.4064/fm232-2-2, 117-129. ISI IF:0.553

8. **Bazhlekov, I., Vasileva, D.** Numerical modeling of drop coalescence in the presence of soluble surfactants. *Journal of Computational and Applied Mathematics*, 293, Elsevier, 2016, ISSN:0377-0427, DOI:doi:10.1016/j.cam.2015.04.013, 7-19. SJR:1.104, ISI IF:1.266
9. **Bazhlekova, E., K. Tsocheva.** Fractional Burgers' model: thermodynamic constraints and completely monotonic relaxation function. *C. R. Acad. Bulg. Sci.*, 69, 7, 2016, 825-834. ISI IF:0.233
10. **Borislav Yordanov,** Grozdana Todorova, Petronela Radu. *The Generalized Diffusion Phenomenon and Applications.* SIAM Journal of Mathematical Analysis (SIMA), SIAM, 2016, SJR:1.99
11. **Borissov Y., Boyvalenkov, P., Tsenkov, R.** Linear Cryptanalysis and Modified DES with Embedded Parity Check in the S-boxes. *Lecture Notes in Computer Science*, 9540, Springer, 2016, ISSN:16113349 (electronic), 03029743, DOI:10.1007/978-3-319-29171-7, 60-78. SJR:0.34
12. **Borissov, Y., Boyvalenkov, P., Tsenkov, R.** On a Linear Cryptanalysis of a Family of Modified DES Ciphers with Even Weight S-boxes. *Cybernetics and Information Technologies*, 16, 4, Institute of Information and Communication Technologies - BAS, 2016, ISSN:1311-9702, DOI:10.1515/cait-2016-0063, 3-12. SJR:0.17
13. **Borissov, Y.L.** Some new results on Hadamard modulo prime matrices. *Problems of Information Transmission*, 52, 2, Springer, 2016, DOI:10.1134/S0032946016020034, 134-141. ISI IF:0.632
14. **Boyvalenkov P., D. Hardin, P. Dragnev, E. Saff, M. Stoyanova.** Universal lower bounds for potential energy of spherical codes. *Constructive Approximation*, 44, 3, Springer US, 2016, ISSN:0176-4276 (Print) 1432-0940 (Online), DOI:10.1007/s00365-016-9327-5, 385-415. SJR:1.029, ISI IF:1.346
15. **Boyvalenkov P., P. Dragnev, D. Hardin, E. Saff, M. Stoyanova.** Lower Energy Bounds for Antipodal Spherical Codes and for Codes in Infinite Projective Spaces. *Proceedings, XV International Symposium "Problems of Redundancy in Information and Control Systems"*, IEEE, 2016, ISBN:978-1-5090-4231-9, DOI:10.1109/RED.2016.7779322, 28-32. SJR:0.108
16. **Dalakov, P.** Meromorphic Higgs bundles and related geometries. *Journal of Geometry and Physics*, 109, Elsevier, 2016, DOI:10.1016/j.geomphys.2016.01.005, 44-67. ISI IF:0.752
17. **Davidov J., Haq A., Mushkarov O.** Harmonic proper almost complex structures on Walker 4-manifolds. *Compt. Rend. Acad. Bulg. Sci.*, 69, 2, BAS, 2016, ISSN:1310-1331, 127-134. ISI IF:0.284
18. **Davidov J.** Normality of the twistor space of a 5-manifold with an irreducible $SO(3)$ -structure. *Mediterranean Journal of Mathematics*, 13, 1, Springer, 2016, ISSN:1660-5446, DOI:10.1007/s00009-014-0477-z, 413-442. ISI IF:0.599
19. **Davidov, J., Yankov C.** Contact twistor spaces and almost contact metric structures. *Mediterranean Journal of Mathematics*, 13, 5, Springer, 2016, ISSN:1660-5446, DOI:10.1007/s00009-016-0709-5, 3691-3710. ISI IF:0.599
20. Dilworth, S., **D. Kutzarova,** N. Lovasoa Randrianarivony, **J.P. Revalski, N. V Zhivkov.** Lenses and Asymptotic Midpoint Uniform Convexity. *Journal of Mathematical Analysis and Applications*, 436, 2016, 810-8121. ISI IF:1.12
21. Dilworth, S., **Kutzarova, D.,** Randrianarivony, N. L.. The transfer of property (β) of Rolewicz by a uniform quotient map. 368, *Trans. Amer. Math. Soc.*, 2016, 6253-6270. ISI IF:1.31

22. **Dimova M., Kolkovska N., Kutev N.** Revised concavity method and application to Klein-Gordon equation. *FILOMAT*, 30:3, 2016, DOI:DOI 10.2298/FIL1603831D, 831-839. ISI IF:0.638
23. Dineva P., **Rangelov T.** Wave scattering by cracks at macro- and nano- scale in anisotropic plane by BIEM. *Journal of Theoretical and Applied Mechanics*, 46, 4, 2016, 19-35. SJR:0.307
24. Domokos, M., **Drensky, V.** Noether bound for invariants in relatively free algebras. *J. Algebra*, 463, Elsevier, 2016, 152-167. ISI IF:0.599
25. **Drensky, V.**, Koshlukov, P., Machado, G. G.. GK-dimension of the Lie algebra of generic 2×2 matrices. *Publicationes Mathematicae-Debrecen*, 89, 1-2, 2016, ISSN:print: ISSN 0033 - 3883, online: ISSN 2064 - 2849, 125-135. ISI IF:0.503
26. Fonf, V.P., Somaglia, J., **Troyanski, S.**, Zanco, C.. Almost overcomplete and almost overtotal sequences in Banach spaces II. *Journal of Mathematical Analysis and Applications*, 434, 1, 2016, DOI:10.1016/j.jmaa.2015.09.002, 84-92. SJR:1.206, ISI IF:1.12
27. **Ganchev, G., Milousheva, V.** Meridian Surfaces of Elliptic or Hyperbolic Type in the Four-dimensional Minkowski Space. *Math. Commun.*, 21, 1, 2016, ISSN:1331-0623, 1-21. ISI IF:0.284
28. Gavrilov, Lubomir, **Iliya D. Iliev.** Cubic perturbations of elliptic Hamiltonian vector fields of degree three. *J Differential Equations*, 260, 5, Elsevier, 2016, ISSN:0022-0396, DOI:10.1016/j.jde.2015.10.052, 3963-3990. ISI IF:1.821
29. **George Yanev**, Santanu Chakraborty. A Characterization of exponential distribution and the Sukhatme-Renyi decomposition of exponential maxima. *Statistics and Probability Letters*, 110, Elsevier, 2016, ISSN:0167-7152, DOI:10.1016/j.spl.2015.12.004, 94-102. SJR:0.716, ISI IF:0.595
30. **Georgiev V.**, N. Tzvetkov, N. Visciglia. On the regularity of the flow map associated with 1D cubic periodic Half Wave equation. *Differential and Integral Equations*, 29, 1/2, Khayyam Publishing, 2016, ISSN:0893-4983, 183-200. ISI IF:0.81
31. **Georgieva, I.**, C. Hofreither. An Algorithm for Low-rank Approximation of Bivariate Functions Using Splines. *Journal of Computational and Applied Mathematics*, 310, Elsevier, 2016, ISSN:0377-0427, DOI:http://dx.doi.org/10.1016/j.cam.2016.03.023, 80-91. ISI IF:1.328
32. **Georgieva, I.**, C. Hofreither. On best uniform approximation by low-rank matrices. *Linear Algebra and its Applications*, 518, Elsevier, 2016, ISSN:0024-3795, DOI:http://dx.doi.org/10.1016/j.laa.2016.12.034, 159-176. ISI IF:0.965
33. **Gerdjikov V. S.**, D. M. Mladenov, **A. A. Stefanov**, S. K. Varbev. MKdV Equations Related to the $D_4^{(2)}$ Algebra. *Rom. Jour. Phys*, 61, 1-2, 2016, ISSN:1221-146X, 110-123. ISI IF:1.398
34. **Gerdjikov V. S.**, G. G. Grahovski, R. I. Ivanov. On the N-wave Equations with PT-symmetry. *Theoretical and Mathematical Physics*, **188** No. 3, 1305–1321 (2016);, 188, 3, Springer, 2016, DOI:10.1134/S0040577916090038, ISI IF:0.831
35. **Gerdjikov V. S.**, M. D. Todorov, A. V. Kyuldjiev. Adiabatic Interactions of Manakov Soliton -- effects of cross-modulation. *Special issue of Wave Motion*, Elsevier, 2016, DOI:http://dx.doi.org/10.1016/j.wavemoti.2016.08.004, ISI IF:1.449

36. **Gerdjikov V. S.**, R. Ivanov, G. Grahovski. On Integrable Wave Interactions and Lax pairs on symmetric spaces. Special issue of Wave Motion, Elsevier, 2016, DOI:<http://dx.doi.org/10.1016/j.wavemoti.2016.07.012>, ISI IF:1.449
37. **Gerdjikov V. S.** On Kaup-Kupershchmidt type equations and their soliton solutions. *Nuovo Cimento C* {\\bf 38C} 161 (2016)., 2016, DOI:10.1393/ncc/i2015-15161-7, ISI IF:0.6
38. Grigorova D., **Gueorguieva**. Correlated probit analysis of repeatedly measured ordinal and continuous outcomes with application to the Health and Retirement Study. *Statistics in Medicine*, 35, 23, Wiley, 2016, ISSN:1097-0258, DOI:10.1002/sim.6982, 4202-4225. SJR:1.81, ISI IF:1.533
39. Gudelj, I, Kinnersley, M, **Rashkov, P**, Schmidt, K, Rosenzweig, F. Stability of Cross-Feeding Polymorphisms in Microbial Communities. *PLOS Comput Biol*, 12, 12, PLOS, 2016, ISSN:1553-734X, DOI:10.1371/journal.pcbi.1005269, e1005269. SJR:3.405, ISI IF:4.587
40. **Guelev, D. P.** Refining Strategic Ability in Alternating-time Temporal Logic. *Information and Computation*, Elsevier, 2016, ISSN:0890-5401, DOI:<http://dx.doi.org/10.1016/j.ic.2016.10.013>, SJR:1.029, ISI IF:0.604
41. **Harizanov, S., Georgiev, I.** Fast Algorithm for Optimal Graph-Laplacian Based 3D Image Segmentation. *AIP Conference Proceedings*, 1773, 2016, ISBN:978-073541431-0, ISSN:0094-243X, DOI:10.1063/1.4965010, 110006. SJR:0.198
42. **Horozov, E.** Automorphisms of algebras and Bochner's property for vector orthogonal polynomials. *SIGMA (Symmetry, Integrability and Geometry: Methods and Applications)*, 12, 2016, ISSN:1815-0659, DOI:10.3842/SIGMA.2016.050, 1-16. ISI IF:1.04
43. **Iliev A.I., Stanchev, P.** Personalizing content using voice in a digital asset ecosystem. 12, 5, *International Journal of Innovative Research in Science, Engineering and Technology*, 2016, ISI IF:6.209
44. **Iliev, A., Kyurkchiev, N., Markov, S.** Approximation of the cut function by Stannard and Richards sigmoid functions. *IJPAM*, 109, 1, 2016, ISSN:1311-8080, DOI:10.12732/ijpam.v109i1.9, 119-128. SJR:0.299
45. **Iliev, A.I.** Emotion Recognition in Speech using Inter-Sentence Time-Domain Statistics. 3, 5, *International Journal of Innovative Research in Science, Engineering and Technology*, 2016, ISSN:2319-8753, DOI:DOI:10.15680/IJRSET.2016.0503100, 3245-3254. ISI IF:6.209
46. **Ivanov G.**, Nikolai Nikolov, Svetla Nikova. Cryptographically strong S-boxes generated by modified immune algorithm. *Lecture Notes in Computer Sciences, Proceedings, Cryptography and Information Security in the Balkans*, 9540, Springer, 2016, ISSN:0302-9743, 31-44. SJR:0.34
47. **Ivanov G.**, Nikolai Nikolov, Svetla Nikova. Reversed genetic algorithms for generation of bijective s-boxes with good cryptographic properties. *Cryptography and Communications*, 8, 2, Springer, 2016, ISSN:1936-2447, DOI:10.1007/s12095-015-0170-5, 247-276. SJR:0.55, ISI IF:0.742
48. **Ivanov K.G., P. Petrushev.** Highly effective stable evaluation of bandlimited functions on the sphere. *Numerical Algorithms*, 71, 3, Springer, 2016, ISSN:1572-9265, DOI:10.1007/s11075-015-0011-9, 585-611. ISI IF:1.417
49. Janabekova, S. K., **Covachev, V.**, Akça, H.. Time-periodic solutions of a problem of phase transitions. *Far East Journal of Mathematical Sciences*, 99, 12, 2016, 1947-1953. SJR:0.24

50. **Kiryakova, V.**, Machado, JAT, Mainardi, F., Atanackovic, T.. Fractional Calculus: D'ou venons-nous? Que sommes-nous? Ou allons-nous?. *Fractional Calculus and Applied Analysis*, 19, 5, De Gruyter, 2016, ISSN:1311-0454, 1314-2224, DOI:10.1515/fca-2016-0059, 1074-1104. SJR:1.602, ISI IF:2.246
51. **Kiryakova, V.** Fractional calculus transmutation for the Airy WKB solutions and Stokes phenomenon. *American Institute of Physics – Conf. Proc.*, 1789, Art. # 050005, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968489, 1-10. SJR:0.198
52. Kolb, M., **Savov, M.** Transience and recurrence of a Brownian path with limited local time. *Annals of Probability*, 2016, ISI IF:1.5
53. **Kolev E. M.** On the cardinality of optimal t-deletion-correcting binary codes of length $2t + 3$. *India Global Journal of Pure and Applied Mathematics*, Volume 12, Number 1, Research India Publications, 2016, ISSN:ISSN 0973-1768., 243-251. SJR:0.223
54. **Kovacheva, R.K.** Exactly maximally convergent multipoint Pade' approximants. *American Institute of Physics – Conf. Proc.*, 1789, Art. # 050004, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:0.1063/1.4968488, 1-8. SJR:0.198
55. Krassimir D. Danov, Stefka N. Dimova, **Tihomir B. Ivanov**, Javor K. Novev. Shape analysis of a rotating axisymmetric drop in gravitational field: Comparison of numerical schemes for real-time data processing. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 489, Elsevier, 2016, DOI:<http://dx.doi.org/10.1016/j.colsurfa.2015.10.028>, 75-85. ISI IF:2.752
56. **Kutev N., Kolkovska N., Dimova M.** Nonexistence of global solutions to new ordinary differential inequality and applications to nonlinear dispersive equations. *Mathematical Methods in the Applied Sciences*, 39, 9, John Wiley & Sons, 2016, DOI:10.1002/mma.3639, 2287-2297. ISI IF:0.918
57. **Kutev N., Kolkovska N., Dimova M.** Sign-preserving functionals and blow-up to Klein–Gordon equation with arbitrary high energy. *Applicable Analysis*, 95, 4, Taylor & Francis, 2016, ISSN:ISSN: 0003-6811, DOI:10.1080/00036811.2015.1038994, 860-873. ISI IF:0.803
58. **Kutev N.,** Tabakova S., Radev S.. Velocity and shear rate estimates of some non-Newtonian oscillatory flows in tubes. *AIP Conference Proceedings*, 1773, 2016, ISSN:0094-243X, DOI:10.1063/1.4964986, 080002-1-080002-8. SJR:0.198
59. **Kutev, N., Kolkovska, N., Dimova, M.** Finite time blow up of the solutions to Boussinesq equation with linear restoring force and arbitrary positive energy. *Acta Mathematica Scientia*, 2016, ISSN:0252-9602, DOI:10.1016/S0252-9602(16)30047-9, 881-890. ISI IF:0.742
60. **Kyurkchiev, N, Markov, S.** On the numerical solution of the general kinetic “K-angle” reaction system. *Journal of Mathematical Chemistry*, 54, 3, Springer, 2016, ISSN:Online ISSN 1572-8897 Print ISSN 0259-9791, DOI:DOI:10.1007/S10910-016-0592-0, 792-805. ISI IF:1.056
61. **Kyurkchiev, N.** A note on the new geometric representation for the parameters in the fibril elongation process. *C. R. Acad. Bulg. Sci.*, 69, 8, 2016, ISSN:1310-1331, 963-972. ISI IF:0.233
62. **Landjev, I.,** Rouseva, A., Storme, L.. On the Extendability of Quasidivisible Griesmer Arcs. *Designs, Codes and Cryptography*, 79, 3, Springer, 2016, ISSN:0925-1022, DOI:10.1007/s10623-015-0114-2, 535-547. SJR:0.65, ISI IF:0.781

63. **Landjev, I.**, Rousseva, A.. The Nonexistence of $(104,22;3,5)$ -arcs. *Advances in Mathematics of Communication*, 10, 3, AIMS, 2016, ISSN:1930-5346, DOI:10.3934/amc.2016029, 601-611. ISI IF:0.631
64. Liolios A., A. Morupoulou, A. Liolios, Kr. Georgiev, **I. Georgiev**. A Computational Approach for the Seismic Sequences Induced Response of Cultural Heritage Structures Upgraded by Ties. *Studies in Computational Intelligence*, 648, Springer Verlag, 2016, ISSN:1860-949X, DOI:10.1007/978-3-319-32207-0_4, 47-58. SJR:0.187
65. Liolios, K., Tsihrintzis, V., Angelidis P., Georgiev K., **Georgiev I.** Numerical simulation for horizontal subsurface flow constructed wetlands: A short review including geothermal effects and solution bounding in biodegradation procedures. *AIP Conference Proceedings*, 1773, American Institute of Physics Publishing LLC, 2016, ISSN:0094243X, DOI:http://dx.doi.org/10.1063/1.4965013, 110009-1-110009-13. SJR:0.198
66. Liolios, K., Tsihrintzis, V., Georgiev, K., **Georgiev, I.** A Computational Investigation of the Optimal Reaction Type Concerning BOD Removal in Horizontal Subsurface Flow Constructed Wetland. *Studies in Computational Intelligence*, 648, Springer Verlag, 2016, ISSN:1860949X, DOI:http://dx.doi.org/10.1007/978-3-319-32207-0_3, 29-45. SJR:0.187
67. Louzada, E.S., Vazquez, O.Ed., Braswell, W.E., **Yanev, G.**, Devanaboina, M., Kunta, M.. Distribution of 'Candidatus Liberibacter Asiaticus' above and below ground in Texas Citrus. *Phytopathology*, 106, 7, The American Phytopathological Society, 2016, ISSN:0031-949X, 702-709. ISI IF:3.011
68. **Milousheva, V.**, Turgay, N.C.. Quasi-minimal Lorentz Surfaces with Pointwise 1-type Gauss Map in Pseudo-Euclidean 4-Space. *Journal of Geometry and Physics*, 106, 2016, ISSN:0393-0440, DOI:http://dx.doi.org/10.1016/j.geomphys.2016.03.023, 171-183. ISI IF:0.87
69. Mitov, K. V., **Yanev, N. M.** LIMITING DISTRIBUTIONS FOR ALTERNATING REGENERATIVE BRANCHING PROCESSES. *C. R. Acad. Bulg. Sci.*, 69, 10, 2016, 1251-1262. SJR:0.296, ISI IF:0.233
70. **Mushkarov, O.**, Yankov, C.. Partial integrability of almost complex structures on Thurston Manifolds. *Annales Polonici Mathematici*, 118, 2-3, PAN, 2016, ISSN:0066-2216(p) 1730-6272(e), DOI:10.4064/ap4046-11-2016, 141-148. ISI IF:0.35
71. **Mutafchiev, Ljuben**. On the distribution of the number of Goldbach partitions of a randomly chosen positive integer. *Electronic Notes in Discrete Mathematics*, 54, Elsevier, 2016, ISSN:1571-0653, DOI:10.1016/j.endm.2016.09.02, 3-8. SJR:0.32
72. Nguyen-Tuan, L., Lahmer, T., Datcheva, M., **Stoimenova, E.**, Schanz, T.. A novel parameter identification approach for buffer elements involving complex coupled thermo-hydro-mechanical analyses. *Computers and Geotechnics*, 76, Elsevier, 2016, ISSN:0266-352X, DOI:http://dx.doi.org/10.1016/j.compgeo.2016.02.005, 23-32. ISI IF:1.705
73. **Nikolov N, M. Trybula, L. Andreev**. Boundary behavior of invariant functions on planar domains. *Complex Var. Elliptic Equ.*, 61, 8, 2016, ISSN:1747-6933 (p) 1747-6941 (e), DOI:10.1080/17476933.2015.1136823, 1064-1072. ISI IF:0.466
74. **Nikolov N, M. Trybula**. Estimates of the Bergman distance on Dini-smooth bounded planar domains. *67, Collect. Math.*, 2016, ISSN:0010-0757(p) 2038-4815(e), DOI:10.1007/s13348-015-0150-2, 407-414. ISI IF:0.593

75. **Nikolov N**, P. J. Thomas, D.-A. Tran. Lifting maps from the symmetrized polydisc in small dimensions. *Complex Anal. Oper. Theory*, 10, 5, 2016, ISSN:1661-8254 (p) 1661-8262 (e), DOI:10.1007/s11785-015-0495-2, 921-941. ISI IF:0.663
76. **Nikolov N**, P. J. Thomas, M. Trybula. Gromov (non)hyperbolicity of certain domains in C^2 . *Forum Math.*, 28, 4, 2016, ISSN:0933-7741 (p) 1435-5337 (e), DOI:10.1515/forum-2014-0113, 783-794. ISI IF:0.823
77. **Nikolov N**. On a lower bound of the Kobayashi metric. *Proc. Amer. Math. Soc.*, 144, 10, 2016, ISSN:0002-9939 (p) 1088-6826 (e), DOI:10.1090/proc/13072, 4393-4394. ISI IF:0.7
78. Nikolova, S., Toneva, D., **Georgiev, I.**, Yordanov, Y., Lazarov, N.. Two cases of large bregmatic bone along with a persistent metopic suture from necropoles on the northern Black Sea coast of Bulgaria. *Anthropological Science*, 124, 2, The Anthropological Society of Nippon, 2016, ISSN:0918-7960, DOI:http://doi.org/10.1537/ase.160530, 145-153. SJR:0.543, ISI IF:0.703
79. **Nisheva-Pavlova, M.**, Shukerov, D., Pavlov, P.. Design and Implementation of a Social Semantic Digital Library. *Information Services and Use*, 35, 4, IOS Press, 2016, ISSN:1875-8789, 273-284. SJR:0.3
80. **Paneva-Konovska, J.**, Nikolova, Y.. Laplace transform approach for solving integral equations using Computer Algebra System. *American Institute of Physics – Conf. Proc.*, 1789, Art. # 050008, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968492, 1-9. SJR:0.198
81. **Paneva-Konovska, J.**. On some Mittag-Leffler series: A set of overconvergence theorems. *American Institute of Physics – Conf. Proc.*, 1789, Art. # 050007, AIP Publishing LLC, USA, 2016, ISBN:978-0-7354-1453-2, ISSN:0094-243X, DOI:10.1063/1.4968491, 1-6. SJR:0.198
82. **Popivanov P, N. Nikolov**. On the Dirichlet problem to the Liouville equation. Explicit formulas. *Compt. Rend. Acad. Bulg. Sci.*, 69, 11, 2016, ISSN:1310–1331 (p) 2367–5535 (e), 1389-1400. ISI IF:0.233
83. **Popivanov P., G. Boyadzhiev, Y. Markov**. Existence of classical solutions of quasi-linear non-cooperative elliptic systems. *Journal of Pseudo-Differential Operators and Applications*, Springer International Publishing (Birkhäuser Basel), 2016, ISSN:1662-999X, DOI:10.1007/s11868-016-0167-7, 1-11. ISI IF:0.444
84. **Popova, E. D.**. Outer Bounds for the Parametric Controllable Solution Set with Linear Shape. *Lecture Notes in Computer Science*, 9553, Springer International Publishing, 2016, ISBN:978-3-319-31768-7, ISSN:0302-9743, DOI:10.1007/978-3-319-31769-4_12, 138-147. SJR:0.252
85. **RK Yordanova**, Putman AH, Wolen AR, Harenza J, Chesler EJ, Miles MF. Identification of Quantitative Trait Loci and Candidate Genes for an Anxiolytic-like Response to Ethanol in BXD Recombinant Inbred Strains.. *Genes Brain Behav.*, Mar 7, gbb.12289, 2016, DOI:10.1111, SJR:1.73
86. **Raikov, G.**. Discrete spectrum for Schrödinger operators with oscillating decaying potentials. *Journal of Mathematical Analysis and Applications*, 438, 2, Elsevier, 2016, ISSN:0022-247X, 551-564. ISI IF:1.014
87. **Raikov, G.**. Spectral asymptotics for waveguides with perturbed periodic twisting. *Journal of Spectral Theory*, 6, 2, EMS, 2016, ISSN:1664-039X, DOI:DOI: 10.4171/JST/126, 331-372. ISI IF:0.868

88. **Rashkov, P.**, Barrett, IP, Beardmore, RE, Bendtsen, C, Gudelj, I. Kinase Inhibition Leads to Hormesis in a Dual Phosphorylation-Dephosphorylation Cycle. *PloS Computational Biology*, 12, 11, PloS, 2016, ISSN:1553-7358, DOI:10.1371/journal.pcbi.1005216, e1005216. SJR:3.405, ISI IF:4.587
89. **S. Ivanov**, H. Manev, H. Manev. Sasaki-like almost contact complex Riemannian manifolds. *J. Geom. Physics*, 107, Elsevier, 2016, 136-148. ISI IF:0.752
90. **Slavova, A.**, Bobeva, G.. Local Activity in Reaction-Diffusion CNN with Memristor Synapses. *Proc. IEEE*, IEEE, 2016, ISBN:978-3-8007-4252-3, 87. ISI IF:5.629
91. **Slavova, A.**, Bobeva, G.. Local Activity of CNN with Dynamic Memory Synapses. *C.R.Bulg.Acad.Sci.*, 69, 11, BAS, 2016, ISSN:1310-1331, 1401-1406. ISI IF:0.233
92. **Slavova, A.**, Ignatov, V.. CNN Computing of Piezoelectric Solid with Nano-Holes under Time-Harmonic Anti-Plane Load. *Proc. IEEE*, IEEE, 2016, ISBN:978-3-8007-4252-3, 81. ISI IF:5.629
93. **Stefka Bouyuklieva**, Wolfgang Willems, Nikolay Yankov. On the automorphisms of order 15 for a binary self-dual [96, 48, 20] code. *Designs, Codes and Cryptography*, 79, Springer US, 2016, ISSN:1573-7586, DOI:10.1007/s10623-015-0043-0, 171-182. ISI IF:0.958
94. **Stoimenova, E.**, Balakrishnan, N.. Sidak-type tests for the two-sample problem based on precedence and exceedance statistics. *Statistics: A Journal of Theoretical and Applied Statistics*, Taylor & Francis, 2016, ISSN:1029-4910, DOI:http://dx.doi.org/10.1080/02331888.2016.1258071, ISI IF:0.53
95. **Todorov M.I.**, Goberna M.A., Guerra F.. Constraint qualifications in convex vector semi-infinite optimization. *European Journal of Operational Research*, 249, 1, 2016, ISSN:0377-2217, 32-40. ISI IF:2.358
96. **Topalova S., S.Zhelezova.** New regular parallelisms of PG(3,5). *Journal of Combinatorial Designs*, 24, 10, Wiley Periodicals, Inc., 2016, ISSN:1520-6610, DOI:DOI 10.1002/jcd.21526, 473-482. SJR:1.029, ISI IF:0.657
97. **Tsachev, Ts., V. M. Veliov**, A. Widder. Set-membership estimations for the evolution of infectious diseases in heterogeneous populations. *Journal of Mathematical Biology*, Springer, 2016, ISSN:0303-6812 (Print) 1432-1416 (Online), DOI:10.1007/s00285-016-1050-0, ISI IF:1.716
98. **Valchev, T I.** Dressing Method and Quadratic Bundles Related to Symmetric Spaces. Vanishing Boundary Conditions. *Journal of Mathematical Physics*, 57, AIP Publishing, 2016, ISSN:0022-2488, DOI:10.1063/1.4940996, 021508-1-021508-14. ISI IF:1.243

**ДОПЪЛНИТЕЛНИ ПУБЛИКАЦИИ (ИЗВЪН SONIX)
НА АСОЦИИРАНИ ЧЛЕНОВЕ НА ИМИ,
В КОИТО Е СПОМЕНАТ ИМИ-БАН**

99. Aversa, D., **Tersian S.**, Tornatore, E., On the existence and multiplicity of solutions for Dirichlet's problem for fractional differential equations, *Fract. Calc. Appl. Anal.*, 19, No 1, 253–266, De Gruyter, 2016, ISSN:1311-0454, 1314-2224, DOI: 10.1515/fca-2016-0014; IF: 2.246
100. Cabada, A., Precup, R., Saavedra, L., **Tersian, S.A.**, Multiple positive solutions to a fourth order boundary value problem, *Electronic Journal of Differential Equations*, 2016, Vol. 2016, 1-18, Texas State Univ., 2016, ISSN 1072-6691; IF: 0.817

101. Hong, Qingguo; Kraus, Johannes; Xu, Jinchao; **Zikatanov, Ludmil**, A robust multigrid method for discontinuous Galerkin discretizations of Stokes and linear elasticity equations, Numer. Math. Vol. 132 (2016), no. 1, pp.23–49, IF 1.813, doi:10.1007/s00211-015-0712-y
102. Rodrigo, C.; Gaspar, F. J.; Hu, X.; **Zikatanov, L. T.**, Stability and monotonicity for some discretizations of the Biot's consolidation model. Comput. Methods Appl. Mech. Engrg., Volume 298 (2016), pp. 183–204, IF 3.467, <http://dx.doi.org/10.1016/j.cma.2015.09.019>
103. Urschel, John C.; **Zikatanov, Ludmil T.** On the maximal error of spectral approximation of graph bisection, Linear Multilinear Algebra, Vol. 64 (2016), no. 10, pp. 1972–1979, IF 0.761

E03/3.1:

Научни статии, които не са реферирани и индексирани в световната система за реферирание и индексирание - публикувани

- **Звено: (ИМИ) Институт по математика и информатика**
- **Тип на публикацията:**
 - Глава от научна монография
 - Студия в научно списание
 - Статия в научно списание
 - Статия в сборник на научен форум
 - Студия в тематичен сборник
 - Статия в тематичен сборник
 - Научно съобщение
- **Реферира се:** Не
- **Година на публикуване:** 2016 ÷ 2016
- **Тип записи:** Всички записи

1. Акча, Н., **Covachev, V.**, Covacheva, Z.. Existence theorem for a second-order impulsive functional-differential equation with a nonlocal condition. Journal of Nonlinear and Convex Analysis, 17, 6, 2016, 1129-1136
2. **Angelov K.** Main Architectures Used in ETL as a Tool, Necessary for the Integration of Data in Large Volumes - a Task in the Field of Digital Preservation of Cultural Heritage. Digital Presentation and Preservation of Cultural and Scientific Heritage, VI, 2016, ISSN:1314-4006, 129-136
3. Angelov, S., **Stoimenova, E.** Modified regression technique to reduce effects of multicollinearity. Proceedings of 7th Annual International Conference on Computer Science and the Education in Computer Science, 2016, ISSN:1313-8624, 339-353
4. **Angelova V.** Variable ordering based on distinguishing sets. Национална конференция по информатика, посветена на 80 г от рождението на проф. П. Бърнев, ИМИ, 12-13 ноември, 2015, Институт по математика и информатика, БАН, 2016, ISBN:ISBN 978-954-8986-45, 185-193

5. **Anguelov, R., Markov, S.** Hausdorff Continuous Interval Functions and Approximations. In: J. Wolff v Gudenberg (Ed), Reliable Scientific Computing (SCAN 2014 Proc.), LNCS, Springer, 2016
6. Aseev, SM, **Krastanov, MI, Veliov, VM.** Optimality Conditions for Discrete-Time Optimal Control on Infinite Horizon. Research Report 2016-09 of the Technical University of Vienna, 2016, 1-17
7. **Baicheva, T., Topalova, S.** Classification of optimal conflict-avoiding codes of weights 6 and 7. Proc. of the International Workshop on Algebraic and Combinatorial Coding Theory, 2016, 13-18
8. **Baicheva, T., Topalova, S.** Construction and classification of optimal $(v,5,3,1)$ optical orthogonal codes. Internat. Scientific Journal "Science. Business. Society.", 5, Scientific Technical Union of Mechanical Engineering, 2016, ISSN:2367-8380, 7-8
9. **Baicheva, T., Topalova, S.** Maximal $(v, 4, 3, 1)$ optical orthogonal codes for asynchronous transmission. Юбилейна научна конференция 25 години факултет Математика и информатика, ВТУ, Издателство Фабер, 2016, ISBN:978-619-00-0419-6, 80-85
10. **Bantchev, B.** Some geometry problems solved through vectors. Mathematics and education in mathematics, 2016, ISSN:1313-3330, 197-201
11. **Bantchev, B.** The vector triple product and planar vector algebra. The Mathematical Gazette, 100, 548, The Mathematical Association, 2016, ISSN:0025-5572, DOI:10.1017/mag.2016.70, 314-317
12. **Bantchev, B.** Tighter, neater, safer C and C++. Доклади на деветата нац. конф. "Образованието в информационното общество", 2016, ISSN:1314-0752, 162-170
13. Barneva, R.P., **Brimkov, V.E.**, Carbonara, J.O., Favata, J., Sherman, B., Kanev, K. Innovative way of offering master's program on data analytics with minimal resources. Japanese Journal of Applied Physics Conference Proceedings, 4, 2016, ID 011617
14. Barneva, R.P., **Brimkov, V.E.**, Kanev, K.. Direct-access pattern interface for geometric networks modeling. Japanese Journal of Applied Physics Conference Proceedings, 4, 2016, ID 011613
15. Barneva, R.P., **Brimkov, V.E.**, Kanev, K.. Direct-access pattern interface for geometric networks modeling. Japanese Journal of Applied Physics Conference Proceedings, 4, 2016, ID 011613
16. Baylov K., **Al. Dimov.** Self-adaptation in service oriented systems. Proceedings of the 45th Spring Conference of the Union of Bulgarian Mathematicians, 2016, 171-177
17. **Bazhlekov, I, Bazhlekova, E.** Numerical approaches to unidirectional viscoelastic flows with fractional derivative models. Proc. "International Conference on Fractional Differentiation and its Applications, Novi Sad, Serbia, 2016, Serbian Soc. of Mechanics and Faculty of Techn. Sci. Novi Sad, 2016, ISBN:978-86-7892-830-7, 851-853
18. **Bazhlekova, E.** Fractional Jeffreys' fluids: thermodynamic constraints, Stokes' first problem and subordination. Proc. "International Conference on Fractional Differentiation and its Applications, Novi Sad, Serbia, 2016", Serbian Soc. of Mechanics and Faculty of Techn. Sci. Novi Sad, 2016, ISBN:978-86-7892-830-7, 501-504
19. Beluhov N., **Kolev E.** Search for a moving target in a graph. Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory June, 2016, Albena, Bulgaria., 2016, 47-52

20. Bikov D., **Bouyukliev I.**, Stojanova A.. Benefit of Using Shared Memory in Implementation of Parallel FWT Algorithm with CUDA C on GPUs. Proceedings of 7th International Conference Information Technologies and Education Development, Zrenjanin, Serbia, 2016, ISBN:978-86-7672-285-3, 250-256
21. **Bogdanova G.**. New interdisciplinary methods and technologies in the field of cultural and historical heritage. Online Science Series, Cultural and Historical Heritage: Preservation, Presentation, Digitalization, 2, Regional Public Library P. R. Slaveykov - Veliko Tarnovo, 2016, ISSN:2367-8038, 14-29
22. **Bogdanova Galina.** Preservation and presentation of cultural heritage of Veliko Tarnovo region with synergy of interdisciplinary technologies, knowledge and cooperation. Conference May readings - Science Days 2015, USB branch Veliko Tarnovo, 2016, ISSN:1314-2283, 38-51
23. **Borisov, M., Dimitrova, N.,** Simeonov, I.. Mathematical Modelling of Anaerobic Digestion with Hydrogen and Methane Production. Preprints of the 6th IFAC Conference on Foundations of Systems Biology in Engineering The International Federation of Automatic Control Magdeburg, Germany, October 9-12, 2016, e-version, IFAC, 2016
24. **Boyvalenkov P.,** M. Stoyanova, T. Marinova. New nonexistence results for binary orthogonal arrays. Proc. 15th International Workshop on Algebraic and Combinatorial Coding Theory, Albena, Bulgaria, June 18-24, 2016, IMI-BAS, 2016, 90-95
25. Chebanyuk E., **Markov K.**. About mathematical foundations for software model to model transformation approaches.. Proceedings of the “The Seventh World Congress “Aviation in the XXI-st Century”, Safety in Aviation and Space Technologies, Kyiv, Ukraine., NAU, 2016, 1.13.30-1.13.33
26. Chebanyuk E., **Markov Kr.**. An approach to class diagrams refinement according to SOLID Design Principles. Proceedings of 4th International conference on Model-Driven Engineering and software Development, MODELSWARD 2016, Rome, Italy., SCITEPRESS – Science and Technology Publications, Lda.; Portugal, 2016, ISBN:978-989-758-168-7, 435-411
27. Chebanyuk E., **Markov Kr.**. Model of problem domain “model-driven architecture formal methods and approaches”.. International Journal "Information Content and Processing", Volume 3, Number 3, ITHEA, 2016, ISSN:ISSN 2367-5128 (printed), ISSN 2367-5152 (online), 303-322
28. Cibulka, R, **Dontchev, AL, Krastanov, MI, Veliov, VM.** Metrically Regular Differential Generalized Equations. Research Report 2016-07 of the Technical University of Vienna, 2016, 1-28
29. Dzhondzhorov D., **Dimov A.**. Detection of Security Threats for Software Intensive Systems. Proceedings of the International Scientific Conference UNITECH, 2, 2016, II-292-II-297
30. E.V. Chebanyuk, **K.K. Markov.** Model-Driven Approaches in Agile methodology. III Міжнародна науково-практична конференція «Інформаційні технології та взаємодії» (IT & I), Taras Shevchenko National University, Kyiv, Ukraine., 2016, 67-69
31. Frank Ball, Miguel Gonzalez, Rodrigo Martinez, **Maroussia Slavtchova-Bojkova.** Total progeny of Crump—Mode—Jagers branching processes: an application to vaccination in epidemic modelling.. 219, Springer Verlag, 2016, ISBN:978-3-319-31641-3, 11, 257-267
32. **Georgieva, I.,** C. Hofreither. On the Best Uniform Approximation by Low-Rank Matrices. NuMa Report Series, Institute of Computational Mathematics, Johannes Kepler University Linz, NuMa-Report.2016-10, 2016

33. **Harizanov, S.**, Lirkov, I., **Georgiev, I.**, Skordev, Al.. Denoising and segmentation of digital radiographic images. Scientific Proceedings "NDT days 2016", 1, 187, 2016, ISSN:1310-3946, 438-440
34. **Horozov, E.**. Generalized Gould-Hopper polynomials. 2016
35. **Horozov, E.**. Vector orthogonal polynomials with Bochner's property,. 2016
36. Hyrien, O., Mitov, K. M., **Yanev, N. M.**. Supercritical Sevastyanov Branching Processes with Non-Homogeneous Poisson Immigration. Lecture Notes in Statistics, 219, Springer-Verlag, 2016, 151-166
37. **Iliev, A.**, **Kyurkchiev, N.**, **Markov, S.**. On the Hausdorff Distance Between the Shifted Heaviside Step Function and the Transmuted Stannard Growth Function. BIOMATH, 5, 2, Forum Biomath, 2016, ISSN:1314-684X, DOI:ttp://dx.doi.org/10.11145/j.biomath.2016.09.041, 1-6
38. **Ivanova K.B.**, I. Ivanov, M. Dimitrova, **Kr. Markov**, Stefan Karastanev. "A Method for Evaluation of Informational Services - Step 2: Computing the Informational Services' Performance Proportionality Constants". International Journal "Information Models and Analyses", Volume 5, Number 3, ITHEA, 2016, ISSN:ISSN 1314-6416 (printed), ISSN 1314-6432 (Online), 203-214
39. **Ivanova K.B.**, **Kr. Markov**, Stefan Karastanev. A Method for Evaluation of Informational Services - Step 3: Rank-Based Multiple Comparison.. International Journal "Information Content and Processing", Vol.3, Number 4, ITHEA, 2016, ISSN:ISSN 2367-5128 (printed), ISSN 2367-5152 (online), 303-321
40. Ivanova, N., H. Ruohomaa, **K. Ivanova**. Knowledge Market for Education in the Digital World: Problems, Challenges, or Opportunities?. Proc. of the 11th Annual MIBES Int. Conf., Heraklion, Greece, 2016, ISBN:978-960-93-8332-5, 194-204
41. **Kalina Sotirova**, Katrina Koleva, Elena Naidenova. Digitization of Documentation at the Scientific Archive of the National Institute of Archeology with Museum. Digital Presentation and Preservation of Cultural and Scientific Heritage, VI/2016, VI/2016, IMI-BAS, 2016, ISSN:1314-4006, 275-280
42. **Kenderov, P.**, **Chehlarova, T.** Extending the Class of Mathematical Problems Solvable in School. IMI-BAS, 9, 3-4, 2015, 2016, ISSN:1312-6555, 191-206
43. **Kenderov, P.**, **Чехларова, Т.**, **Сендова, Е.** Квалификационен курс за учители "Изследователски подход в образованието по математика (добри практики)". 45. Пролетна математическа конференция на СМБ, 2016, ISSN:1313-3330, 303-306
44. **Kenderov, P.**, **Sendova, E.**, **Chehlarova, T.**. EDUCATION IN MATHEMATICS AND ICT IN RELATION WITH THE WORLD OF WORK – THE LAST YEAR OF THE MASCIL PROJECT. 45, СМБ, 2016, ISSN:1313-3330, 269-277
45. **Kolev E. M.**. Optimal binary t-deletion-correcting codes. Proceedings of the Forty Fifth Spring Conference of the Union of Bulgarian Mathematicians, 2016, 135-139
46. **Kolev, E.**. Deletion-correcting codes and dominant vectors. Serdica Mathematical Journal, 42, 2016
47. **Krastanov, MI**, **Ribarska, NK**. On the geometry of the Pontryagin maximum principle in infinite dimensional spaces. Mathematics and Education in Mathematics, 2016, 58-65

48. **Kyurkchiev, N., Iliev, A.** A note on some growth curves arising from Box-Cox transformation. *Int. J. of Engineering Works*, 3, 6, 2016, ISSN:2409-2770, 47-51
49. **Kyurkchiev, N., Iliev, A.** On some growth curve modeling: approximation theory and applications. 3, 3, *Int. J. of Trends in Research and Development*, 2016, ISSN:2394-9333, 466-471
50. **Kyurkchiev, N., Iliev, A.** On the Hausdorff distance between the Heaviside function and some transmuted activation functions. *Mathematical Modelling and Applications*, 2, 1, 2016, 1-5
51. **Kyurkchiev, N., Iliev, A.** On the Hausdorff distance between the shifted Heaviside function and some generic growth functions. *Int. J. of Engineering Works*, 3, 10, 2016, ISSN:2409-2770, 73-77
52. **Kyurkchiev, N., Markov, S., Iliev, A.** A note on the Schnute growth model, *Int. J. of Engineering Research and Development*. 12, 6, 2016, ISSN:2278-067X, 47-54
53. **Kyurkchiev, N., Markov, S.** Approximation of the cut function by some generic logistic functions and applications. *Advances in Applied Sciences*, 1, 2, 2016, 24-29
54. **Kyurkchiev, N., Markov, S.** Hausdorff approximation of the sign function by a class of parametric activation functions. *Biomath Communications*, 3, 2, 2016, DOI:10.11145/bmc.2016.12.217
55. **Kyurkchiev, N.** A family of recurrence generated sigmoidal functions based on the Verhulst logistic function. Some approximation and modeling aspects. *Biomath Communications*, 3, 2, 2016, 1-18
56. **Kyurkchiev, N.** On the numerical solution of the general "ligand-gated neuroreceptors model" via CAS Mathematica. *Pliska Stud. Math. Bulgar.*, 26, 2016, 133-142
57. **Kyurkchiev, N.** Uniform Approximation of the Generalized Cut Function by Erlang Cumulative Distribution Function. Application in Applied Insurance Mathematics. *International Journal of Theoretical and Applied Mathematics*, 2, 2, 2016, 40-44
58. **Landjev, I., Rousseva, A.** Linear Codes Close to the Griesmer Bound and the Related Geometric Structures. *Proceedings of the XV International Workshop on ACCT*, 2016, 206-208
59. Landjeva S, Korzun V, Börner A, **Palejev D**, Karceva T, Chamurlijski P, Tsenov N, Koutev V, Rodeva R, Georgiev G, Ganeva G. Diversity within Bulgarian old bread wheat germplasm. *Proceedings of the 16th International EWAC Conference*, Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung, Gatersleben, Germany and Institute of Plant Genetics, Breeding and Biotechnology, University of Life Sciences, Lublin, Poland, 2016, 35-42
60. **Lazarov, B. & Papancheva, R.** Computer Supported Evolution Inside Van Hiele Levels 1 and 2. *Proceedings of the 8th International Conference on Computer Supported Education*, 2, SCITEPRESS, 2016, ISBN:978-989-758-179-3, DOI:10.5220/0005903001860 192, 186-192
61. **Lazarov, B., Severinova, D.** Introducing business education in early middle school – math perspective. *MEST Journal*, 4, 1, MESTE NGO – Belgrade; SZ & Associates, Toronto, Canada, 2016, ISSN:2334-7058, DOI:10.12709/mest.04.04.01.07, 65-74
62. **Maneva, N.** A Decision Making Support Method in Agile Software Development. *Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ*, 2016, ISBN:978-954-8986-45-8, 205-214

63. **Markov, S.** On the Algebra of Intervals. *Reliable Computing*, 21, 21, University of Louisiana, usa, 2016, ISSN:1573-1340, 80-108
64. **Maroussia Slavtchova-Bojkova.** On two-type decomposable branching processes in continuous time and time to escape extinction. 219, Springer Verlag, 2016, ISBN:978-3-319-31641-3, 11, 319-329
65. **Milousheva, V., Aleksieva, Y.** Rotational Surfaces with Constant Mean Curvature in Pseudo-Euclidean 4-Space with Neutral Metric. *Mathematics and Education in Mathematics, Proceedings of Forty Fifth Spring Conference of the Union of Bulgarian Mathematicians*, 2016, ISSN:1313-3330, 105-112
66. **Mitov, I., A. Rizov, K. Ivanova, M. Vlachkov.** Ergonomic Design of the Graphical User Interface of Integrated Software Systems for Business Management. *Proc. of the 11th Annual MIBES Int. Conf., Heraklion, Greece*, 2016, ISBN:978-960-93-8332-5, 317-330
67. **Mushkarov, O.** Partial integrability of almost complex structures. *Математика и математическо образование-Сборник доклади 45 ПК на СМБ, Плевен, Април 6-10, 2016, СМБ, 2016, ISSN:1313-3330, 48-57*
68. **Noev N., Bogdanova G.** Online Platform for Presentation of Bell Objects in the Field of Cultural and Historical Heritage. *Online Science Series, Cultural and Historical Heritage: Preservation, Presentation, Digitalization*, 2, 2, Regional Public Library P. R. Slaveykov - Veliko Tarnovo, 2016, ISSN:2367-8038, 40-49
69. **Paneva-Konovska, J.** Series in 3-parameter Mittag-Leffler functions – various convergence theorems. *Proceedings of ICFDA'16, Novi Sad, Serbia, Serbian Society of Mechanics and Faculty of Technical Sciences Novi Sad*, 2016, ISBN:ISBN 978-86-7892-830, 786-789
70. **Pashkouleva, D.** Some Results about a Subclass of Close-to-Convex Functions. *Journal of Computer Science and Applied Mathematics*, 2, 1, Research Publication, 2016, ISSN:1857-9582, 15-17
71. Peneva, J., St. Ivanov, **Kr. Ivanova, P. Stanchev.** Challenges to the Support of Bulgarian Open Institutional Repositories. *Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ*, 2016, ISBN:978-954-8986-45-8
72. **Popivanov P., G. Boyadzhiev, Y. Markov.** Solvability in classical sense of quasi-linear non-cooperative elliptic systems and application. *Pliska Studia Mathematica Bulgarica*, 26, Institute of Mathematics and Informatics, 2016, ISSN:ISSN 0204-9805
73. **Popova, E. D.** Interval Model of Equilibrium Equations in Mechanics. S. Freitag, R. L. Muhanna, R. L. Mullen (Eds) *Proceedings of REC'2016, Ruhr University Bochum*, 2016, 241-255
74. **Poryazov, S., Saranova, E.** Generalized Aggregation Functions and Quality Indicators in Overall Telecommunication Network Models. *8th European Symposium on Computational Intelligence and Mathematics, Sofia (Bulgaria), October 5th–8th, 2016*, 1, Universidad de Cádiz (Dept. Matemáticas), Spain, 2016, ISBN:978-84-617-5119-8
75. **Rangelov T., Dineva P.** Dynamic behaviour of a crack at macro- and nano- scale in anisotropic plane by BIEM. *Pliska Stud. Math. Bulgar.*, 26, 2016, ISSN:0204-9805, 177-186

76. **Roumyana Yordanova**, Jordan Ganev, Kalin Stoynov, Milena Stoyanova, Toni Donchev. Stress factors as predictors of burnout syndrome in the hospital staff of Military Medical Academy-Sofia. *Bulgarian Journal of Psychiatry*. 2016, Vol 1(2):135-141., 1, 2, 2016, 135-141
77. Rousseva, A., **Landjev, I.** Characterization of Highly Divisible Arcs. *Proceedings of the XV International Workshop on ACCT*, 2016, 267-271
78. **Sapundjiev, V., D. Luchev.** Interactive Environment for Creating and Preservation of Fashion Objects Integrated with Electronic Storage of Learning Resources. *Doctoral Conference in Mathematics and Informatics, MIDOC 2015, October 15-18, 2015, Sofia, Bulgaria. Proceedings, "St. Kliment Ohridski" University Press*, 2016, ISBN:978-954-07-4186-4, 108-114
79. **Saranova E.**, Zamiatina E., **Poryazov S.** Generalized Performance characteristics in Overall Telecommunication Networks with QoS Guarantees. *Математика программных систем: Межвузовский сборник научных трудов, Вып.13, Национальный исследовательский университет – Пермь*, 2016, ISBN:978-5-7944-1742-12, ISSN:978-5-7944-1741-8, 4-11
80. **Sendova, E., Chehlarova, T., Kenderov, P.** Two Recent Events in Bulgaria in the Frames of SCIENTIX. 45, *СМБ*, 2016, ISSN:1313-3330, 278-282
81. Senka, G., Plota, S., Monova-Zheleva, M., Zhelev, Y., **Luchev, D., Paneva-Marinova, D.** Technology-enhanced Teaching of Exact Science through Art. *Proceedings of "Cultural heritage - conservation, presentation and digitization", National Library "P. Slaveykov", Veliko Tarnovo*, 2016, ISSN:2367-8038, 75-79
82. **Shishkov, B.B.** Digitization of Cultural Heritage – a Service-Oriented Approach. *Proceedings of the Sixth UNESCO International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, Veliko Tarnovo, Bulgaria, September 26-28, 2016, Institute of Mathematics and Informatics-BAS*, 2016, ISSN:1314-4006, 2936
83. **Shishkov, B.B.** SDBC-Based Technology-Independent Functionality Models (Applications in Emergency Medical Response). *Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев*, 2016, ISBN:978-954-8986-45-8, 194-204
84. **Slavova, A.**, Tetzlaff, R.. Dynamics of hysteresis CNN with memristor synapses. *PLISKA Studia Mathematica*, 26, IMI, 2016, ISSN:0204-9805, 203-214
85. **Stoimenova, E.** Comparison of partially ranked lists. *Computer Data Analysis and Modeling. Proceedings of the 11-th Intern. Conf., Publ. center of BSU, Minsk*, 2016, ISBN:978-985-553-366-6, 68-73
86. **Todorov T., G. Bogdanova, N.Noey.** Information Management: Database Design for a Cultural Artifact Repository. In chapter “Information Management“ of “Encyclopedia of Information Systems and Technology”, Two Volume Set, 1-2, Taylor & Francis Inc, 2016, ISSN:978-1466560772
87. Todorova M., **Bogdanova G.** New digital media and their impact on consumers and communications. *XIV-National Conference with international participation "Libraries - reading - communications", 14, VT University "St. St. Cyril and Methodius", National Library "P.R.Slaveykov"*, 2016, ISSN:1313-813, 192-210

88. **Topalova, S., Zhelezova, S.** Parallelisms of PG(3,4) with automorphisms of order 3. Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory June 18-24, 2016, Albena, Bulgaria, 2016, 272-277
89. **Tsenkov, R., Borissov, Y.** Narrow Sense Linear Cryptanalysis of a Family of Modified DES Ciphers with Even Weight S-boxes. ACCT - 2016 June 18-24, Albena Bulgaria, 2016
90. **Valchev, T.** ON SOLITON EQUATIONS IN CLASSICAL DIFFERENTIAL GEOMETRY. Pliska Studia Mathematica Bulgarica, 26, Institute of Mathematics and Informatics, BAS, 2016, ISSN:ISSN 0204-9805, 253-262
91. **Zhelezova S.** On regular parallelisms of PG(3,5) with automorphisms of order 5. Proceedings of the 4th International Conference on Technics. Technologies. Education. Safety, Information Technologies, Natural and Mathematical Sciences, 2:, 2016, 72-74
92. **Zhelezova S.** On regular partial parallelisms of PG(3,7) with automorphisms of order 5. Сборник Юбилейна конференция „25 години ВТУ“, Издателство Фабер, 2016, 91-94
93. Балчев, В., Минев, Д., **Врагов, Г.** Цифровизирани колекции на Пловдивски културни институции. Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ, 2016, ISBN:978-954-8986-45-8, 165-172
94. **Богданова Г., Събев Н., Томов Ж.** Наръчник и онлайн въпросник за уеб достъпност. първо, 1, Фондация „Хоризонти“, 2016, 1-105
95. **Брънзов, Т., Самева, А.** Инициативи онлайн за преподаватели и ученици във VIVA Cognita. МАТЕМАТИКА И МАТЕМАТИЧЕСКО ОБРАЗОВАНИЕ, Доклади на Четиридесет и петата пролетна конференция на Съюза на математиците в България, 2016, ISSN:1313-3330, 288-291
96. **Георгиев Мл.** Оптимизиране на процесите по интеграция между информационните системи и изграждане на единен потребителски профил. Сб. доклади на Нац. конференция по информатика, посветена на 80г от рождението на проф. П. Бърнев, 2016
97. **Димитрова, Л.** Компютърната лингвистика в ИМИ - история, проекти и резултати. Национална конференция по информатика, посветена на 80 г. от рождението на проф. П. Бърнев, 12-13 ноември 2015 г. София, ИМИ-БАН със съдействието на АРИО, 2016, ISBN:978-954-8986-45-8, 37-57
98. **Ескенази, А., Станчев, П.** 80 години от рождението на професор Петър Бърнев. Сборник доклади от 45. Пролетна конференция на СМБ, СМБ, 2016, ISSN:1313-3330, 14-24
99. **Ескенази, А., Станчев, П.** 80 години от рождението на професор Петър Бърнев. Сборник доклади на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, Институт по математика и информатика – БАН, 2016, ISBN:978-954-8986-45-8, 11-20
100. **Ескенази, А., Станчев, П.** Професор Петър Бърнев - 80 години от рождението му. сп. Наука, 26, 1, СУБ, 2016, ISSN:0861 3362, 63-68
101. **Ескенази, А.** За въздействието на информатиката върху един съществен фактор в икономиката и обществото. Сб. Доклади на межд. научна конференция „Предизвикателства

пред информационните технологии в контекста на Хоризонт 2020“, Стопанска академия Свищов, 2016, ISBN:978-954-23-1188-1, 12-18

102. **Замятина, Е.Б., Мальцев, Г.А., Порязов, С.А., Саранова, Э.Т.** .. Опыт моделирования алгоритмов маршрутизации, разработанных для SDN и SON сетей. Математика программных систем: Межвузовский сборник научных / под ред. А.И. Микова и Л.Н. Лядовой, Вып.13, Национальный исследовательский университет – Пермь, 2016, ISBN:978-5-7944-1742-12, ISSN:978-5-7944-1741-8, 22-38
103. **Зарева, Ц, Чехларова, Т.** Грешки при намиране на равнинно сечение на тяло в аксонометрия и средства за преодоляването им. Педагогически форум, 3, Тракийски университет, 2016, ISSN:1314-7986, DOI:10.15547/PF.2015.057
104. **Иванов М., Кр. Иванова, И. Митов, Е. Великова.** Реклами, реклами... – намиране без взирание. Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ, 2016, 239-248
105. **Иванова Кр.** Бойчо Кокинов и развитието на когнитивната наука в България. Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ, 2016, ISBN:978-954-8986-45-8, 68-82
106. **Илиев Ал.** Параметрични вектори за разпознаване на емоциите в говора. Национална конференция по информатика, посветена на 80 г от рождението на проф. П. Бърнев, ИМИ, 2016, ISBN:978-954-8986-45-8, 225-238
107. **К. Сотирова.** Стандарти при дигитализация на художествено наследство - музей, цвят, реклама. Цвят и Език, 2, 2/2016, 2016, ISSN:1314 – 3883, 165-179
108. **Калоянова К., А. Антонов.** Приложение на итеративни принципи и обектно-ориентиран подход при разработката на образователен софтуер. Сб. доклади на Национална конференция по информатика, посветена на 80 г от рождението на проф. П. Бърнев, ИМИ, 12-13 ноември, 2015, 2016, ISBN:978-954-8986-45-8, 95-101
109. **Келеведжиев, Е., Дженкова, З.** Международното състезание "Бобър" в България. 45, СМБ, 2016, ISBN:1313-3330, 236-241
110. **Кюркчиев, Н., С. Марков.** Математически анализ на данни за образованието от епохата на Възраждането. Д. Благоева (съст.), Нестор Марков и неговият принос в лексикографията и образованието,, ИК "Стилует", София, 2016, 69-74
111. **Лазаров, Б., Василева, А.** Възрастово-обособени разлики при работа по една тема. Математика и математическо образование, Доклади на Четиридесет и петата пролетна конференция на Съюза на математиците в България, 2016, ISSN:1313-3330, 242-247
112. **Лазаров, Б., Луканкин, А.** Интеграционен подход как тренд на съвременната школна стратегия. 3-я Международна научно-практическа конференция. Доклади и съобщения., Московский региональный социально-экономический институт, 2016, ISBN:978-5-91422-055-3, 134-139
113. **Лазаров, Б., Северинова, Д.** Определящата поведението среда като средство за управление. Образование и технологии, 7, 1, 2016, ISSN:1314-1791, 8-15

114. **Милушева, В.** Риман - живот и творчество (1826 – 1866). In: Mathematics and Education in Mathematics, Proceedings of Forty Fifth Spring Conference of the Union of Bulgarian Mathematicians, 2016, ISSN:1313-3330, 25-35
115. **Несторова, Р.** Чевиана и симедиана. Теорема на Стюарт. Математика и информатика, 3, 2016, 269-281
116. **Панайотова, Г., Христова, С., Табов, Й.** Количествен хронологичен анализ на приписките в българските ръкописи X-XVIII век. Годишна научна сесия в ИМИ (2016), 2016
117. **Периклиев, Вл.** Едновременни антоними и синоними. сп. Български език, 63, 2, Българска академия на науките, 2016, ISSN:0005-4283, 105-107
118. **Периклиев, Вл.** Синонимия и семантична промяна. сп. Български език, 63, 3, Българска академия на науките, 2016, ISSN:0005-4283, 89-96
119. **Пиперков, Паскал.** Проучвания на места, свързани със св. Иван Рилски. Хронология на Поклонническия поход "Св. Иван Рилски" 2015. Културно-историческо наследство: опазване, представяне, дигитализация, 2, РНБ "П. Р. Славейков" - Велико Търново, 2016, ISSN:2367-8038, 117-126
120. **Радев Р., А. Ескенази, Н. Манева, В. Ангелова.** Софтуерни технологии в ИМИ. Сб. доклади на Нац. конференция по информатика, посветена на 80г от рождението на проф. П. Бърнев, ИМИ, 2016, ISBN:ISBN 978-954-8986-45, 21-29
121. **Ризов А., И. Митов, Кр. Иванова.** Моделиране на бизнес-процеси чрез СУБД с външна логика на данните. Сборник трудове на Национална конференция по информатика посветена на 80-годишнината от рождението на проф. Петър Бърнев, ИМИ, 2016, ISBN:978-954-8986-45-8, 173-184
122. **Сендова, Е, Х. Стайков.** Компютърно творчество – вчера, днес и утре. Национална конференция по информатика, посветена на 80 г от рождението на проф. П. Бърнев, ИМИ, 12-13 ноември, 2015, Институт по математика и информатика - БАН, 2016, ISBN:978-954-8986-45, 129-142
123. **Сотирова, К.** Онтологичен модел за музейна документация. Национална конференция по информатика, посветена на 80 г от рождението на проф. П. Бърнев, ИМИ, 12-13 ноември, 2015, 2016
124. **Сотирова, К.** От типология на артефактите към онтология на наследството. Трета научна конференция с международно участие “ Съвременни технологии в КИН“ , Октомври 2015, Технически университет, София, 2016
125. **Спиридонова М., А. Геров, М. Нишева.** Развитие и приложение на системи за компютърна алгебра в ИМИ на БАН. Сборник доклади на Конференция по информатика, посветена на 80 годишнината от рождението на проф. Петър Бърнев, 12-13.11.2015, София, ИМИ-БАН, 2016, 30-38
126. **Събев Н.** Пътешествие без монитор и мишка. Научна конференция с международно участие КИН2016, Народна библиотека "П.Р.Славейков", 2016

127. **Събева-Колева, Н. Ж.** От права на Симсън до права на Табов: маршрут за изследователи.. Proceedings of the Forty Fifth Spring Conference of the Union of Bulgarian Mathematicians, April 6–10, 2016, 2016, ISSN:1313 3330, 262-266
128. **Табов Й.** Надпись «Кана Маламира» или «Мала(го) Мирче» ?. Linguistique balkanique, LV, 1, Издателство на БАН, 2016, ISSN:ISSN: 0324-1653, 115-124
129. **Тодорова М., Г. Богданова, Т. Тодоров.** Инструменти и методи за оценка и анализ на присъствие в новите дигитални медии и онлайн методи за обучение. Сборник с доклади на Юбилейна международна научна конференция 25 години Факултет “Математика и информатика”, ВТУ, 2016, 41-46

E03/4.1:

Научни монографии в България - публикувани

- **Звено: (ИМИ)** Институт по математика и информатика
 - **Тип на публикацията:** Научна монография
 - **Обхват на изданието:** Национален в България
 - **Година на публикуване:** 2016 ÷ 2016
 - **Тип записи:** Всички записи
1. **Rusev, P.** An Invitation to Bessel Functions. Prof. M. Drinov Publ. House of B.A.S, 2016, ISBN:978-954-322-871-3, 182

E03/5.1:

Научни монографии в чужбина - публикувани

- **Звено: (ИМИ)** Институт по математика и информатика
 - **Тип на публикацията:** Научна монография
 - **Обхват на изданието:**
Национален - другаде
Международен
 - **Година на публикуване:** 2016 ÷ 2016
 - **Тип записи:** Всички записи
1. **Kyurkchiev, N.** Mathematical Concepts in Insurance and Reinsurance. Some Moduli in Programming Environment MATHEMATICA. 1, LAP LAMBERT Academic Publishing, 2016, ISBN:978-3-659-96906-5, 136
2. Manolis G., Dineva P., **Rangelov T.**, Wuttke F.. Seismic wave propagation in non-homogeneous elastic media by boundary elements. Solid Mechanics and its Applications, volume 240, Springer International Publishing, Switzerland, 2016, ISBN:978-3-319-45205-0, 294
3. **Paneva-Konovska J.** From Bessel to Multi-Index Mittag Leffler Functions: Enumerable Families, Series in them and Convergence. World Scientific Publishing, London, 2016, ISBN:ISBN-13: 978-1786340, 228

E03/6.1:
Учебници, учебни помагала - излезли от печат

- **Звено: (ИМИ) Институт по математика и информатика**
- **Тип на публикацията:**
 - Учебник за студенти
 - Учебник за ученици
 - Учебно помагало за студенти
 - Учебно помагало за ученици
- **Година на публикуване:** 2016 ÷ 2016
- **Тип записи:** Всички записи

1. **Силвия Бумова, Николай Манев.** Математически анализ 2. 2016
2. **Събева, Н. Ж., Колев, Е.,** Петкова, Б., Василева, Цв.. Тетрадка по математика за 5. клас. Булвест 2000, 2016, ISBN:978-954-18-0967-9, 80
3. **Събева, Н., Колев. Е..** Математика за напреднали. Фастумпринт, 2016, ISBN:619722319-4, 96
4. **Събева-Колева, Н. Ж., Колев. Е.,** Данова, Д., Тодорова, М.. Математика. Учебник за 5. клас. Булвест 2000, 2016, 272
5. **Толев, Д.** Лекции по елементарна и аналитична теория на числата. 1 и 2, Университетско издателство "Св. Климент Охридски", 2016
6. **Чехларова, Т.** Изследователски подход в началното математическо образование (помагало за обучение на обучители). Макрос, 2016, ISBN:978-954-561-412-5, 64
7. **Чехларова, Т.** Изучаване на математика с динамични конструкции в началното училище. Макрос, 2016, ISBN:978-954-561-404-0, 48

E03/7.1:

Сборници, броеве на списания, енциклопедии, речници, справочници - излезли от печат

- **Звено: (ИМИ) Институт по математика и информатика**
- **Тип на публикацията:**
 Тематичен сборник
 Сборник трудове от научен форум
 Брой от списание
 Енциклопедия
 Речник
 Справочник
- **Година на публикуване: 2016 - 2016**

№	вид на продукта	Категория	Наименование	Характеристики	Участници	Забележка
1	Брой от списание	Национално в чужбина	PLISKA Studia Mathematica	Издателство: IMI, IMI, ISSN: 0204-9805	PLISKA Studia Mathematica - Гост-редактор	
2	Сборник трудове от научен форум	Международно	Methods and Applications in Image Analysis	Издателство: Research Publishing Services, Singapore	Brimkov, V.E. - Редактор	
3	Тематичен сборник	Международно	Културно-историческо наследство: Опазване, представяне, дигитализация	Издателство: Народна библиотека „П.Р. Славейков” – Велико Търново, Велико Търново, ISSN: 2367-8038	Галина Богданова - Редактор Николай Ноев - Технически редактор Паскал Пиперков - Технически редактор	Volume2 Сборник с доклади от научна конференция с межд. участие KIN2016 / приет март 2016 - издаден през декември 2016 /
4	Сборник трудове от научен форум	Международно	LNBIP 257, Business Modeling and Software Design	Издателство: Springer, ISBN: 978-3-319-40511-7, ISSN: 1865-1348	Boris Shishkov - Редактор	
5	Сборник трудове от научен форум	Международно	Proceedings of the Fifth International Conference on Telecommunications and Remote	Издателство: SCITEPRESS, ISBN: 978-989-758-200-4	Boris Shishkov - Редактор	

			Sensing			
6	Сборник трудове от научен форум	Международно	Proceedings of the Sixth International Symposium on Business Modeling and Software Design	Издателство: SCITEPRESS, ISBN: 978-989-758-190-8	Boris Shishkov - Редактор	
7	Брой от списание	Международно	Biomath Communications 3	Издателство: Forum Biomath, Sofia, ISSN: 2367-5233	Markov, S. - Редактор Anguelov, R. - Редактор	Biomath Communication s is a biannual periodic journal published since 2012
8	Брой от списание	Международно	Biomath 5	Издателство: Forum Biomath, Sofia, ISSN: 1314-684X	Anguelov, R. - Редактор Markov, S. - Редактор	Biomath is a biannual periodic journal published since 2010
9	Тематичен сборник	Международно	Conference Proceedings and Abstracts. XVII-th International Summer Conference on Probability and Statistics	Издателство: Institute of Mathematics and Informatics, Sofia, ISBN: 978-954-8986-46-5	Stoimenova, E. - Редактор Bojkova, M. - Редактор	
10	Сборник трудове от научен форум	Национално в България	Сборник доклади на Деветата Национална конференция „Образованието и изследванията в информационното общество”	Издателство: Асоциация "Развитие на информационното общество", София, ISSN: 1314-0752	Георги Врагов - Участник в колектив	
11	Сборник трудове от научен форум	Международно	Spectral Theory and Mathematical Physics	Издателство: Birkhäuser (Springer International Publishing), Basel, ISBN: 978-3-319-29990-7, ISSN: 0255-0156	Raikov, G. - Редактор	
12	Брой от списание	Международно	Serdica Journal of Computing, Vol. 9 No 2	Издателство: IMI-BAS, Sofia,	Olena Siruk - Технически	

				ISSN: 1314-7897, 1312-6555	редактор	
13	Брой от списание	Международно	Serdica Journal of Computing, Vol. 9 No 3–4	Издателство: IMI-BAS, Sofia, ISSN: 1314-7897, 1312-6555	Olena Siruk - Технически редактор	
14	Брой от списание	Международно	Serdica Journal of Computing, Vol. 9 No 1	Издателство: IMI-BAS, Sofia, ISSN: 1314-7897, 1312-6555	Olena Siruk - Технически редактор	
15	Сборник трудове от научен форум	Национално в България	Национална конференция по информатика, посветена на 80-г. от рождението на професор Петър Бърнев – сборник доклади	Издателство: ИМИ-БАН, София, ISBN: 978-954-8986-45-8	Иванова, К. - Редактор Н. Манева - Редактор	
16	Брой от списание	Международно	Fractional Calculus and Applied Analysis, Vol. 19, No 1 (2016)	Издателство: De Gruyter, Sofia-Berlin-Boston, ISSN: 1311-0454, 1314-2224	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602
17	Брой от списание	Международно	Fractional Calculus and Applied Analysis, Vol. 19, No 2 (2016)	Издателство: De Gruyter, Sofia-Berlin-Boston, ISSN: 1311-0454, 1314-2224	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602
18	Брой от списание	Международно	Fractional Calculus and Applied Analysis, Vol. 19, No3 (2016)	Издателство: De Gruyter, Sofia-Berlin-Boston, ISSN: 1311-0454, 1314-2224	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602
19	Брой от списание	Международно	Fractional Calculus and Applied Analysis, Vol. 19, No4 (2016)	Издателство: De Gruyter, Sofia-Berlin-Boston, ISSN: 1311-0454, 1314-2224	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602
20	Брой от списание	Международно	Fractional Calculus and Applied Analysis,	Издателство: De Gruyter, Sofia-Berlin-	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602

			Vol. 19, No5 (2016)	Boston, ISSN: 1311-0454, 1314-2224		
21	Брой от списание	Международно	Fractional Calculus and Applied Analysis, Vol. 19, No6 (2016)	Издателство: De Gruyter, Sofia-Berlin-Boston, ISSN: 1311-0454, 1314-2224	Kiryakova, Virginia - Редактор	IF=2.246, SJR=1.602
22	Справочник	Национално в България	Онлайн Наръчник и Въпросник за уеб достъпност - 2 част	Издателство: фондация "Хоризонти"	Галина Богданова - Редактор Негослав Събев - Друга длъжност	
23	Сборник трудове от научен форум	Международно	Digital Presentation and Preservation of Cultural and Scientific Heritage. International UNESCO Conference, Veliko Tarnovo, Bulgaria, September 26-28, 2016. Proceedings	Издателство: IMI-BAS, Veliko Tarnovo, ISSN: 1314-4006	Pavlov R. - Редактор Stanchev P. - Редактор Paneva-Marinova, D. - Технически редактор Luchev D. - Технически редактор Draganov L. - Друга длъжност	

E03/8.1:

Научно-популярни произведения - излезли от печат

- **Звено: (ИМИ) Институт по математика и информатика**

- **Тип на публикацията:**

Научно-популярна книга
Глава от научно-популярна книга
Научно-популярна статия
Каталог
Албум

- **Година на публикуване:** 2016 ÷ 2016

- **Тип записи:** Всички записи

1. Hofschuster, W., **Popova, E. D.**, Kearfott, R.B.. Bibliography of Prof. Walter Kraemer. Lecture Notes in Computer Science, 9553, Springer International Publishing, 2016, 281-290
2. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-1-2016). Fractional Calculus and Applied Analysis, 19, 1, De Gruyter, 2016, 1-19
3. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-2-2016). Fractional Calculus and Applied Analysis, 19, 2, De Gruyter, 2016, 285-289
4. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-3-2016). Fractional Calculus and Applied Analysis, 19, 3, De Gruyter, 2016, 573-579
5. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-4-2016). Fractional Calculus and Applied Analysis, 19, 4, De Gruyter, 2016, 785-788
6. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-5-2016).. Fractional Calculus and Applied Analysis, 19, 5, De Gruyter, 2016, 1059-1073
7. **Kiryakova, V.** FCAA Related News, Events and Books (FCAA-Volume 19-6-2016). Fractional Calculus and Applied Analysis, 19, 6, De Gruyter, 2016, 1347-1352
8. **Rusev, P., Kiryakova, V.** 120-th Anniversary of Birth of Academician Nikola Obrechhoff (1896-1963), Institute of Mathematics - Bulgarian Academy of Sciences. Fractional Calculus and Applied Analysis, 19, 5, De Gruyter, 2016, 1062-1068
9. **Rusev, P., Kiryakova, V.** Archive paper (transl. and ed. by P. Rusev and V. Kiryakova): N. Obrechhoff, On the summation of Taylor's series on the contour of the domain of summability (from: Ann. Univ. Sofia, 26, No 1 (1930), 53-100, In Bulg.). Fractional Calculus and Applied Analysis, 19, 5, De Gruyter, 2016, 1316-1346
10. **negi4a.** Крачка напред за уеб достъпността в Европа. Без жичка, 2016
11. **Бойваленков, П.,** Караджова, Р.. Всероссийская олимпиада 2016. Математика, 54, 4, Списание Математика ЕООД, 2016, 12-24

12. **Бойваленков, П., Колев, Е., Макелов, А.** 57 международна олимпиада по математика. Математика, 54, 5, Списание Математика ЕООД, 2016, 3-11
13. **Бойваленков, П., Колев, Е.** Зимен математически тулнир "Атанас Радев". Математика, 54, 2, Списание Математика ЕООД, 2016, 6-16
14. **Бойваленков, П., Колев, Е.** Пролетни математически състезания. Математика, 54, 3, Списание Математика ЕООД, 2016, 9-26
15. **Бойваленков, П., Кортезов, И., Мушкаров, О.** 33. Балканска олимпиада по математика. сп. Математика, 5, 2016, 12-15
16. **Бойваленков, П.** Седмица на олимпийската математика в ИМИ-БАН. Математика, 54, 1, Списание Математика ЕООД, 2016, 12-18
17. **Бойваленков, П.** Теорема на Уилсън и някои приложения. Математика, 54, 6, Списание Математика ЕООД, 2016, 7-10
18. **Держански, И., Златилов, В.** Коледен лингвистичен турнир. Математика+, 24/94, 2, 2016, 66-72
19. **Иванова, К., Н. Манева.** Национална конференция по информатика, посветена на 80 годишнината от рождението на професор Петър Бърнев. Доклади на деветата национална конференция "Образованието и изследванията в информационното общество", ISSN: 1314-0752, Пловдив, 2016, 251-255
20. **Кортезов, И.** 30 задачи на 30 езика. сп. Математика, 4, 2016, 59-65
21. **Кортезов, И.** Лагерни математически игри на английски език. сп. Математика, 5, 2016, 70-74
22. **Кортезов, И.** Математическа рулетка. сп. Математика, 3, 2016, 62-64
23. **Кортезов, И.** Математически щафети. сп. Математика, 2, 2016, 64-66
24. **Кортезов, И.** Теми от математически лагери. 1, 5, Фастумпринт, 2016, 175
25. **Кортезов, И.** Теми от математически лагери. 1, 6, Фастумпринт, 2016, 182
26. **Кортезов, И.** Теми от математически лагери. 1, 7, Фастумпринт, 2016, 181
27. **Радев С.** Контролиран сън. 2016, ФорКом, ISBN 978-954-464-247-1, 2016, 126
28. **Радев, С.** Граници, Посоки, Измерения. ФорКом, ISBN 978-954-464-255-6, 2016, 130
29. **Радев, Сл.** Знание Ч. ФорКом, ISBN 978-954-464-241-9, 2016, 117
30. **Савова, Б., Кортезов, И.** За едно забавно математическо състезание от програмата "Черноризец Храбър". сп. Математика, 1, 2016, 33-38
31. **Сендова, Е.** Въпроси с нееднозначни отговори. сп. Математика, ISSN: 0204-6881, 5, 2016, 75-76

32. **Сендова, Е.** За бързата муха, нетипичните влакове и Джон фон Нойман. сп. Математика, ISSN: 0204-6881, 4, 2016, 66-70
33. **Сендова, Е.** За чашите, бучките захар или защо времето не стига за учене. сп. Математика, ISSN: 0204-6881, 5, 2016, 60-62
34. **Сендова, Е.** Кой е по-бърз в сметките?. сп. Математика, ISSN: 0204-6881, 4, 2016, 71-72
35. **Сендова, Е.** Павиране с кръгли плочки. сп. Математика, ISSN: 0204-6881, 2, 2016, 67-67
36. **Сендова, Е.** Рицари или мошеници - можем ли да ги разпознаем с малко логика?. сп. Математика, ISSN: 0204-6881, 3, 2016, 60-61
37. **Сендова, Е.** Ха на куб (2). сп. Математика, ISSN: 0204-6881, 3, 2016, 71-72
38. **Сендова, Е.** Ха на куб. сп. Математика, ISSN: 0204-6881, 2, 2016, 68-68
39. Симеон Марлоков, **Георги Врагов**. Цифрови технологии за визуализиране на културно-исторически ценности. Сборник доклади на Конференция по дигитални изкуства и нови технологии „Ars Virtualis”, октомври 2016, Академия за музикално, театрално и изобразително изкуство – Пловдив, 2016
40. **Събев Н.** Новото в JAWS 18. Без жичка, 2016
41. **Събев Н>**. Крачка напред за уеб достъпността в Европа. Без жичка, 2016
42. **Събева-Колева, Н. Ж., Колев, Е.** Конкурс за малките на списание Математика. Списание Математика, ISSN 0204-6881, 5, 2016
43. **Събева-Колева, Н. Ж., Колев, Е.** Пет задачи от школата "Математика за напреднали". Списание Математика, ISSN 0204-6881, 6, 2016, 68-72
44. **Събева-Колева, Н. Ж.** Геометрични магии. Списание Математика, ISSN 0204-6881, 2, 2016, 49-50
45. **Събева-Колева, Н. Ж.** Как да попълваме тестове. Списание Математика, ISSN 0204-6881, 6, 2016, 37-41
46. **Събева-Колева, Н. Ж.** Метаполус. Списание Математика, ISSN 0204-6881, 1, 2016, 28-32
47. **Събева-Колева, Н. Ж.** Ортополус. Списание Математика, ISSN 0204-6881, 2, 2016, 29-34
48. **Събева-Колева, Н. Ж.** Средни стойности. Списание Математика, ISSN 0204-6881, 3, 2016, 52-54
49. **Събева-Колева, Н. Ж.** Тест за подготовка за външно оценяване и приеман изпит след 7. клас. Списание Математика, ISSN 0204-6881, 3, 2016, 52-57