

E 03/1.1:

Научни публикации, които са реферираны и индексирани в световната система за рефериране, индексиране и оценяване - излезли от печат

- **Звено: (ИИКТ) Институт по информационни и комуникационни технологии**
 - **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
 - **Реферира се:**
 - ZentralBlatt
 - MathSciNet
 - ВИНИТИ
 - SCOPUS
 - Web of Science
 - Друга база (напишете името ѝ в "Забележката")
 - **Година на публикуване:** 2015 ÷ 2015
-
1. **Alexandrov, A.**. Ad-hoc Kalman Filter Based Fusion Algorithm for Real Time Wireless Sensor Data Integration. Advances in Intelligent Systems and Computing, vol. 400: Flexible Query Answering Sistems 2015, 400, Springer, 2015, ISBN:978-3-319-26153-9, DOI:10.1007/978-3-319-26154-6_12, 151 - 160
 2. Alexandrov, V., Esquivel-Flores, O., **Ivanovska, S.**, **Karaivanova, A.**. On the Preconditioned quasi-Monte Carlo Algorithm for Matrix Computations. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_17, 163 - 171. SJR:0.339
 3. **Alexiev K.**, Shishkov G., Popova N.. Human Activity Registration Using Multisensor Data Fusion. Special Issue of CIT, 15, 7, IICT - BAS, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0093, 99 - 108. SJR:0.17
 4. **Andreev, A.B.**, Racheva, M.R.. On a Type of Nonconforming Morley Rectangular Finite Element. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:978-3-319-15584-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_32, 287 - 294. SJR:0.32
 5. **Andreev, A.B.**, Racheva, M.R.. The Effect of a Postprocessing Procedure to Upper Bounds of the Eigenvalues. Lecture Notes in Computer Science, 8962, Springer, 2015, ISSN:03029743, DOI:10.1007/978-3-319-15585-2_31, 273 - 281. SJR:0.339
 6. **Angelova, G.** Automatic Ontology Acquisition from Text: How Far Can We Progress?. Dynamic Being - Essays in Process-Relational Ontology, by Vesselin Petrov and Adam C. Scarfe Edited, Cambridge Scholars Publishing, 2015, ISBN:978-1-4438-7695-7, 19, 364 - 382

7. **Atanassov, E., Dimitrov, D., Gurov, T.**. Evaluation of stochastic algorithms for financial mathematics problems from point of view of energy-efficiency. AIP Conference Proceedings, 1684, AIP Publishing, 2015, ISBN:978-0-7354-1331-3, DOI:<http://dx.doi.org/10.1063/1.4934300>, SJR:0.152
8. **Atanassov, E., Gurov, T., Karaivanova, A.**. Energy Performance Evaluation of Quasi-Monte Carlo Algorithms on Hybrid HPC. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_18, 172 - 181. SJR:0.339
9. **Atanassov, E., Gurov, T., Karaivanova, A.**. Parallel Grid Applications. in: Grid Computing: Techniques and Future Prospects, eds. Jorge G. Barbosa and Inês Dutra,, Nova Science Publishers, 2015, ISBN:978-1-63117-704-0, 129 - 155
10. **Atanassov, E., Gurov, T., Karaivanova, A.**. Energy aware performance study for a class of computationally intensive Monte Carlo algorithms. Computers and Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:<http://dx.doi.org/10.1016/j.camwa.2015.07.014>, 2719 - 2725. SJR:1.121, ISI IF:1.697
11. Atanassov, K., Atanassova, V., **Gluhchev, G.**. InterCriteria analysis: ideas and problems. Notes on Intuitionistic Fuzzy Sets, 21, 1, 2015, ISSN:1310-4926, 81 - 88
12. Atanassova V., **Doukovska, L., Karastoyanov, D.**, Čapkovič F.. InterCriteria Decision Making Approach to EU Member States Competitiveness Analysis: Trend Analysis. Mathematical Foundations, Theory, Analyses, 1, 322, Springer International Publishing, 2015, ISBN:978-3-319-11312, ISSN:2194-5357, DOI:10.1007/978-3-319-11313-5, 107 - 115
13. **Atanassova, L.**. Remark on Dworniczak's intuitionistic fuzzy implications. Part 1. Notes on Intuitionistic Fuzzy Sets, 21, 3, 2015, ISSN:1310-4926, 18 - 23
14. Atanassova, V., **Doukovska, L.**, Mavrov, D., Atanassov, K.. InterCriteria Decision Making Approach to EU Member States Competitiveness Analysis: Temporal and Threshold Analysis. Mathematical Foundations, Theory, Analyses, 1, 322, Springer International Publishing, 2015, ISBN:978-3-319-11312, ISSN:2194-5357, DOI:10.1007/978-3-319-11313-5, 95 - 106
15. Atanassova, V., Vardeva, I., Sotirova, E., **Doukovska, L.**. Traversing and Ranking of Elements of an Intuitionistic Fuzzy Set in the Intuitionistic Fuzzy Interpretation Triangle. Novel Developments in Uncertainty Representation and Processing, K. Atanassov, O. Castillo, J. Kacprzyk, M. Krawczak, P. Melin, S. Sotirov, E. Sotirova, E. Szmidt, G. De Tre, S. Zadrożny (Eds.), Springer International Publishing, 2015, ISBN:978-3-319-26210, DOI:10.1007/978-3-319-26211-6_14, 161 - 174
16. **Balabanov, A.**. Fast decentralized optimal control algorithm on the basis of Bass' relation for vehicles in a platoon. 7th Balkan Conference in Informatics, Craiova, Romania, 2-4 September 2015, 29, ACM New York, NY, USA ©2015, 2015, ISBN:978-1-4503-3335-1, DOI:10.1145/2801081.2801106
17. **Balabanov, T., Zankinski, I., Barova, M.**. Distributed Evolutionary Computing Migration Strategy by Incident Node Participation. Large-Scale Scientific Computing, Lecture Notes in Computer Science, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/203 - 209. SJR:0.339

18. **Balabanov, T., Zankinski, I., Shumanov, B.**. Slot Machine RTP Optimization and Symbols Wins Equalization with Discrete Differential Evolution. Large-Scale Scientific Computing, Lecture Notes in Computer Science, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/210 - 217. SJR:0.339
19. **Balabanov, T., Zankinski, I., Shumanov, B.**. Slot Machines RTP Optimization with Generic Algorithms. Numerical Methods and Applications, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/210 - 217. SJR:0.339
20. Bartczuk, Ł., Przybył, A., **Koprinkova-Hristova, P.**. New Method for Non-linear Correction Modelling of Dynamic Objects with Genetic Programming. Lecture Notes in Computer Science, 9120, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-19369-4_29, 318 - 329. SJR:0.339
21. Belehaki A., Tsagouri I., Kutiev I., **Marinov P.**, Zolesi B., Pietrella M., Themelis K., Elias P., Tziotziou K.. The European Ionosonde Service: Nowcasting and forecasting ionospheric conditions over Europe for the ESA Space Situational Awareness services. Journal of Space Weather and Space Climate, 5, 2015, ISSN:2115-7251, DOI:10.1051/swsc/2015026, A.25p1 - A25p22. SJR:1.11, ISI IF:2.558
22. Blaheta, R., Kolcun, A., Jakl, O., Soucek, K., Stary, J., **Georgiev, I.**. HPC in Computational Micromechanics of Composite Materials. Proceedings of the Second International Workshop on Sustainable Ultrascale Computing Systems (NESUS 2015), 2015, ISBN:978-84-608-2581-4, 143 - 146
23. Boiadjiev A., **Boiadjiev T.**. A Model of Knee Joint Rehabilitation Device. Experimental Data. Journal Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 43 - 52
24. **Boiadjiev T.**, Boiadjiev G., Delchev K., Kastelov R., Zagurski K.. Eliminating of Far Pedicle Cortex Perforation by automatic spine drilling.. Int. Journal Applied Mechanics and Materials, Vol. 799-800, Vol. 799-800, 2015, ISBN:13:978-3-03835-631-8, ISSN:1662-7482, DOI:10.4028, 505 - 508
25. **Borissova D.**, Tabakova, E., **Grigorova, V.**. An Architecture of Web-based Application for Thyroid Disease Identifying. Trends Journal of Sciences Research, 2, 1, 2015, ISSN:2377-8091, 46 - 49
26. **Borissova, D., Mustakerov, I.**. E-learning tool for visualization of shortest paths algorithms. Trends Journal of Sciences Research, 2, 3, 2015, ISSN:2377-8091, 84 - 89
27. **Borissova, D., Mustakerov, I.**. Open job shop scheduling via enumerative combinatorics. Journal of Mathematical Models and Methods in Applied Sciences, 9, 2015, ISSN:1998-0140, 120 - 127
28. **Borissova, D.**. An Optimal Staffing and Scheduling Approach in Open Shop Environment. Comptes rendus de l'Academie bulgare des Sciences, 68, 10, 2015, ISSN:1310-1331, 1295 - 1300. ISI IF:0.284
29. **Boytsheva, S., Angelova, G.**, Angelov, Z., Tcharaktchiev, D.. Text Mining and Big Data Analytics for Retrospective Analysis of Clinical Texts from Outpatient Care. Cybernetics and Information Technologies, 15, 4, Institute of Information and Communication Technologies - BAS, 2015, ISSN:13144081, DOI:10.1515/cait-2015-0055, 58 - 77. SJR:0.17

30. Bozhkov, L., **Koprinkova-Hristova, P.**, Georgieva, P.. Learning to decode human emotions with Echo State Networks. Neural Networks, Special Issue 2015, Elsevier, 2015, ISSN:0893-6080, DOI:10.1016/j.neunet.2015.07.005, SJR:1.303, ISI IF:2.708
31. Cervenka J. , P. Ellinghaus, **Nedjalkov M.**, Langer E.. Optimization of the Deterministic Solution of the Discrete Wigner Equation. Lecture Notes in Computer Science, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-2651, DOI:doi:10.1007/978-3-319-26520-9_29., SJR:0.31
32. Cervenka J., Ellinghaus P., **Nedjalkov M.**. Deterministic Solution of the Discrete Wigner Equation. Lecture Notes in Computer Science, 8962, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-1558, DOI:doi:10.1007/978-3-319-15585-2_17., SJR:0.339
33. Chernogorova, T., **Dimov, I. T.**, Vulkov, L.. A splitting numerical method for primary and secondary pollutant models. Lecture Notes in Computer Science, 9374, Springer Berlin Heidelberg, 2015, ISBN:978-3-319-26519-3; O, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_35, 303 - 311. SJR:0.31
34. **Chikurtev D.**. Improving and Optimizing the Navigation for Mobile Robot for Inspection by Using Robot Operating System. Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 63 - 74
35. **Chyrka, Iu.** A NARROWBAND SOUND SIGNAL FREQUENCY ESTIMATION WITH IMPULSIVE NOISE FILTERING. Proceedings of the Balkan Conference on Informatics: Advances in ICT, BCI-2015, 2–4 September 2015, Craiova, Romania, 1427, CEUR Workshop Proceedings, 2015, ISSN:1613-0073, 40 - 44
36. Costigan, S., **Tagarev, T.**. Good Practices and Challenges in Organizing for Cybersecurity. Information & Security: An International Journal, 32, 1, Procon, 2015, ISSN:0861-5160, DOI:10.11610/isij.3200, 5 - 8
37. Dezert, J., **Tchamova, A.**, Han, D., Tacnet, J.-M. Why Dempster rule doesnot behave as Bayes rule with Informative Priors, Part 1, Chapter 23. Advances and Aplications of DSmT for Information Fusion (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 189 - 195
38. Dezert, J., **Tchamova, A.**, Han, D., Tacnet, J.-P.. Why Dempster fusion rule is not a generalization of Bayes fusion rule, Part 1, Chapter 24. Advances and Applications of DSmT for Information Fusion (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 195 - 203
39. Dezert, J., **Tchamova, A.**, Han, D.. A Real Z-box Experiment for Testing Zadeh Example. Proceedings of 18th Internation Conference on Information Fusion FUSION 2015, 6-9 July 2015, Washington, DC, 2015, DOI:10.13140/RG.2.1.1418.6322, 407 - 412
40. Dezert, J., Wang, P., **Tchamova, A.**. On the Validity of Dempster-Shafer Theory, Part 1, Chapter 19. Advances and Application of DSmT for Information Fusion (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 163 - 169

41. Dichev, Ch., Dicheva, D., **Agre, G.**, **Angelova, G.**. Trends and Opportunities in Computer Science OER Development. *Cybernetics and Information Technologies*, 15, 3, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0045, 114 - 126. SJR:0.17
42. Dicheva, D., Dichev, Ch., **Agre, G.**, **Angelova, G.**. Gamification in Education: A Systematic Mapping Study. *Educational Technology & Society*, 18, 3, 2015, ISSN:1176-3647, ISI IF:1.376
43. **Dimitrov S.**, **Boneva Y.**, **Stoilov T.**, **Stoilova K.**. Identification of inexplicit relations between spare parts of vehicles. *Journal of the technical University of Sofia, Plovdiv Branch Fundamental Sciences and Applications*, 21, 2, Технически университет, 2015, ISSN:1310-8271, 139 - 144
44. **Dimov, I. T.**, Maire, S., **Sellier, J. M.**. A New Walk on Equations Monte Carlo Method for Linear Algebraic Problems. *Applied Mathematical Modelling*, 39, 15(2015), 2015, ISSN:0307-904X, 4494 - 4510. ISI IF:2.251
45. **Dimov, I. T.**, **Nedjalkov, M.**, **Sellier, J. M.**, Selberherr, S.. Boundary conditions and the Wigner equation solution. *Journal of Computational Electronics*, 14, 4(2015), 2015, ISSN:1569-8025 (print version), 1572-8137 (Online), DOI:10.1007/s10825-015-0720-2, 859 - 863. ISI IF:1.52
46. **Dimov, I. T.**, **Sellier, J. M.**, **Ivanova, D.Y.**. Molecular descriptors and quasi-distribution functions. *Computers and Mathematics with Applications*, 70, 11(2015), 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.06.037, 2726 - 2731. ISI IF:1.697
47. **Dimov, I. T.**, **Sellier, J. M.**, **Nedjalkov, M.**, Selberherr, S. A Comparison of Approaches for the Solution of the Wigner Equation. *Mathematics and Computers in Simulations*, 107, 2015, ISSN:0378-4754, DOI:10.1016/j.matcom.2014.06.001, 108 - 119. ISI IF:1.033
48. **Dimov, I. T.**, **Sellier, J. M.**. A sensitivity study of the Wigner Monte Carlo method. *Journal of Computational and Applied Mathematics*, 277, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2014.09.010, 87 - 93. ISI IF:1.672
49. **Dimov, I.**, **Sellier, J. M.**. Toward solotronics design in the Wigner formalism. *Physica A: Statistical Mechanics and its Applications*, 417, 2015, ISSN:0378-4371, DOI:10.1016/j.physa.2014.09.057, 287 - 296. ISI IF:1.722
50. Dobreva, M., **Angelova, G.**, **Agre, G.**. Bridging the Gap between Digital Libraries and eLearning. *Cybernetics and Information Technologies*, 15, 4, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0057, 92 - 110. SJR:0.17
51. **Dobrinkova N.**, Dobrinkov G.. Input Data Preparation for Fire Behavior Fuel Modeling of Bulgarian Test Cases (Main Focus on Zlatograd Test Case).. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:1611-3349, DOI:10.1007/978-3-319-26520-9, 335 - 342. SJR:0.339
52. **Dobrinkova, N.**, **Andreev, R.**, Valentin Marinov. Svilengrad Test Area in Smart Water Project. *ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY-A Applied Sciences and Engineering*, 15, 1, Anadolu University, Turkey, 2015, ISSN:2146-0205, 33 - 40

53. **Doukovska, L.**, Atanassova, V.. InterCriteria Decision Making Approach in Radar Detection Threshold Analysis. Notes on Intuitionistic Fuzzy Sets (NIFS), 21, 4, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-4926, 129 - 135
54. **Doukovska, L.**. Conventional Hough Detector in Presence of Randomly Arriving Impulse Interference. Proc. of the International Radar Symposium – IRS'15, Dresden, Germany, 1, IEEEExplore, 2015, ISBN:978-3-95404-853, 487 - 492
55. **Doukovska, L.**. Track-Before-Detect Procedure using Hough Velocity Estimation Technique. Comptes rendus de l'Academie bulgare des Sciences, 68, 9, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 1153 - 1160. SJR:0.21, ISI IF:0.284
56. **Dzhambov, V.**. On the fast computing of some constants. High precision computation with .net framework c# and x-mpir. Problems of Engineering Cybernetics and Robotics, 66, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:0204-9848, 75 - 82
57. **Dzhambov, V.**. Solving Nonlinear Ordinary Differential Equations in .NET Framework Environment with X-MPIR. Journal Information Technologies and Control, 2, The John Atanasoff Society of Automatics and Informatics, 2015, ISSN:1312-2622, 2 - 8
58. Ellinghaus P., **Nedjalkov M.**, Selberherr, S. Optimized Particle Regeneration Scheme for the Wigner Monte Carlo Method. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:978-3-319-15584-5, DOI:doi:10.1007/978-3-319-15585-2_3., 27 - 33. SJR:0.339
59. Ellinghaus P., **Nedjalkov M.**, Selberherr, S. The Influence of Electrostatic Lenses on Wave Packet Dynamics. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-2651, DOI:doi:10.1007/978-3-319-26520-9_30, 277 - 284. SJR:0.339
60. Ellinghaus P., **Nedjalkov M.**. Improved Drive-Current into Nanoscaled Channels using Electrostatic Lenses. Proceedings of the 20th International Conference on Simulation of Semiconductor Processes and Devices (SISPAD), 2015, ISBN:978-1-4673-7860-4, DOI:doi:10.1109/SISPAD.2015.7292249., 24 - 27
61. Ellinghaus P., **Nedjalkov M.**. Memory-efficient Particle Annihilation Algorithm for Wigner Monte Carlo Simulations. Proceedings of the 2015 International Workshop on Computational Electronics (IWCE), 2015, ISBN:ISBN: 978-0-692-5152, DOI:doi:10.1109/IWCE.2015.7301955.
62. Ellinghaus, P., Weinbub, J., **Nedjalkov M.**, Selberherr, S, **Dimov I.**. Distributed-Memory Parallelization of the Wigner Monte Carlo Method Using Spatial Domain Decomposition. Journal of Computational Electronics, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-014-0635-3., 151 - 162. ISI IF:1.52
63. **Fidanova S., Ilcheva Z.**. Application of Ants Ideas on Image Edge Detection. Lecture Notes in Computer Science, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9, 218 - 225. SJR:0.339
64. **Fidanova S.**, Mucherino A., Ganzha M.. Ant Colony Optimization with Environment Changes: An Application to GPS Surveying. FedCSIS'2015, EEE Xplorer, 2015, ISBN:ISBN 978-83-60810-66, ISSN:2300-5963, DOI:DOI 10.15439/2015F33, 495 - 500

65. **Fidanova S.**, Pop P.. An Ant Algorithm for the Partitioned Graph Coloring Problem. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:ISBN 978-3-319-15584, ISSN:ISSN 0302-9743, DOI:10.1007/978-3-319-15585-2_78 - 84. SJR:0.339
66. Ganzha, M., **Georgiev, K.**, Lirkov, I., Paprzycki, M.. An application of partition method for solving 3D Stokes equation. Computers & Mathematics with Applications, 70, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.04.025, 2762 - 2772. SJR:1.121, ISI IF:1.697
67. Gegov,A., Sanders,D., **Vatchova,B.**. Complexity management methodology for fuzzy systems with feedforward rule bases. International Journal of Knowledge-based and Intelligent Engineering Systems, vol.19, 2, IOS Press Content Library, 2015, ISSN:1327-2314 (P) ISSN 1875-8827 (E), DOI:10.3233/KES-150310, 83 - 95. SJR:0.246
68. Genova, K., **Kirilov, L..**, Guliashki, V.. A Survey of Solving Approaches for Multiple Objective Flexible Job Shop Scheduling Problems. Cybernetics and Information Technologies, 2, BAS, Institute of Information and Communication Technologies, 2015, ISSN:1311-9702, 3 - 22. SJR:0.212
69. **Georgiev, I.**, Harizanov, S., Vutov, Y.. Supervised 2-Phase Segmentation of Porous Media with Known Porosity. Lecture Notes in Computer Science, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_38, 343 - 351. SJR:0.339
70. **Georgiev, I.**, Ivanov, E., **Margenov, S.**, Vutov, Y.. Numerical Homogenization of Epoxy-Clay Composite Materials. LNCS, 8962, Springer, 2015, ISBN:978-3-319-15585-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_15, 130 - 137. SJR:0.34
71. Georgieva, P., **Popchev, I.**, Stoyanov, S.. A Multi-Step Procedure for Asset Allocation in Case of Limited Resources. Cybernetics and Information Technologies, 15, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0040, 41 - 51. SJR:0.17
72. **Gluhchev, G.**, Ignatov, I., Karadzhov, S., Miloshev, G., Ivanov, N., Mosin, O.. Electrochemically Activated Water. Biophysical and Biological Effects of Anolyte and Catholyte as Types of Water. Journal of Medicine, Physiology and Biophysics, 10, 2015, ISSN:2422-8427 (Online), 1 - 17
73. **Gluhchev, G.**, Ignatov, I., Karadzhov, S., Miloshev, G., Ivanov, N., Mosin, O.. Studying the Virucidal and Biocidal Effects of Electrochemically Activated Anolyte and Catholyte Types of Water on Classical Swine Fever Virus (CSF) and Bacterium E. coli DH5. Journal of Medicine, Physiology and Biophysics, 13, 2015, ISSN:2422-8427, 1 - 18
74. **Gluhchev, G.**, Ignatov, I., Karadzhov, S., Miloshev, G., Ivanov, N., Mosin, O.. Biocidal Effects of the Electrochemically Activated Water. Journal of Health, Medicine and Nursing, 11, 2015, ISSN:2422-8419 (Online), 1 - 18
75. **Goranov, I..** Comparative Analysis of the Electoral Distribution Methods in Bulgarian Voting Legislation. International Conference on Information Technologies „InfoTech - 2015”, 1, 29, 2015, ISSN:1314-1023, 61 - 68
76. **Guliashki, V.**, **Kirilov, L...** A Reference Point Genetic Algorithm for Multi-Criteria Job Shop Scheduling Problems. Proceedings of the International Conference Information Technologies

(InfoTech 2015), 29-th issue, (Editor Prof. Radi Romanski), 17-18. September, 2015, Varna – St. St. Constantine and Elena resort, Bulgaria, 2015, ISSN:1314-1023, 10 - 18

77. **Harizanov, S., Margenov, S.**, Zikatanov, L.. Fast Constrained Image Segmentation Using Optimal Spanning Trees. Lecture Notes in Computer Science, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_2, 15 - 29. SJR:0.339
78. Ignatov, I., **Gluhchev, G.**, Karadzhov, S., Miloshev, G., Ivanov, N., Mosin, O.. Preparation of Electrochemically Activated Water Solutions (Catholyte/Anolyte) and Studying Their Physical-Chemical Properties. Journal of Medicine, Physiology and Biophysics, 11, 2015, ISSN:2422-8427(Online), 1 - 22
79. Ignatov, I., Mosin, O., **Gluhchev, G.**, Karadzhov, S., Miloshev, G., Ivanov, N.. The Evaluation of the Mathematical Model of Interaction of Electrochemically Activated Water Solutions (Anolyte and Catholyte) with Water. , 4, 2, Russian Federation European Reviews of Chemical Research, 2015, ISSN:2312-7708, DOI:10.13187/ercr.2015.4.72, UDC 631.531.027: 635.63, 72 - 86
80. **Ilchev S., Ilcheva Z.**. Modular Data Hiding Methods for Improved Security and Information Exchange on the Internet. Indian Journal of Applied Research, 5, 3, 2015, ISSN:2249-555X, DOI:10.15373/2249555X, 513 - 515
81. **Ilcheva ZI.**, Lazarov N.. Reversible Data Hiding Using a Histogram Modification. Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 11 - 20
82. **Ilcheva ZI.**. Comparison of Various Space-Filling Curves for Lossless Data Hiding Using a Modified Histogram. Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 21 - 32
83. **Ilieva, N.**, Dai, J., Sieradzan, A., Niemi, A.. Solitons And Protein Folding: An In Silico Experiment. AIP Conference Proceedings, 1684, AIP Publishing, 2015, ISSN:0094-243X, DOI:10.1063/1.4934290, 030006-1 - 030006-10. SJR:0.152
84. **Ivanov VI.**. The use of an embedded microprocessor for color light effects at homes of the future. Information Technologies and Control, 11, 4, 2015, ISSN:1312-2622, DOI:10.1515/ict-2015-0004, 34 - 37
85. **Ivanov VI.**. Using a PicoBlaze Processor to Traffic Light Control. Cybernetics and Information Technologies, 15, 5, Marin Drinov, 2015, ISSN:Print ISSN: 1311-9702 Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0023, 131 - 139. SJR:0.212
86. Ivanov, P.M., **Atanassov, E.J.**, Jaime, C.. Computational study on the intramolecular self-organization of the macrorings of some 'giant' cyclodextrins (CD(n), n = 40, 70, 85, 100). Org. Biomol. Chem., 13, 6, The Royal Society of Chemistry, 2015, ISSN:1477-0520, DOI:<http://dx.doi.org/10.1039/C4OB02218A>, 1680 - 1689. ISI IF:3.562
87. **Kanishcheva O., G. Angelova**. A Pipeline Approach to Image Auto-Tagging Refinement. The 7th Balkan Conference on Informatics Conference, ACM, 2015, ISSN:978-1-4503-3335-1, DOI:10.1145/2801081.2801108

88. **Kanishcheva O., G. Angelova.** About Emotion Identification in Visual Sentiment Analysis. Recent Advances in Natural Language Processing, Shoumen, Bulgaria, 2015, ISSN:1313-8502, 258 - 265
89. **Kapanova, K.G., Dimov, I., Sellier, J.M..** On randomization of neural networks as a form of post-learning strategy. Soft Computing, Springer, 2015, ISSN:1433-7479, DOI:10.1007/s00500-015-1949-1, ISI IF:1.271
90. **Karaivanova, A., Ivanovska, S., Gurov, T..** Monte Carlo Method for Density Reconstruction Based on Insufficient Data. Procedia Computer Science, 51, Elsevier, 2015, ISSN:1877-0509, DOI:10.1016/j.procs.2015.05.390, 1782 - 1790. SJR:0.503
91. **Kiril Alexiev, Dimo Dimov.** Handheld Devices for Educational Purposes. Proc. of International Conference on eLearning (e-Learning'15), 11-12 September 2015, University of Applied Sciences, Berlin, Germany, 2015, ISSN:2367-6698, 185 - 189
92. **Kirilov, L., Guliashki, V., Genova, K., Zhivkov, P., Staykov, B., Vatov, D..** Interactive Environment WebOptim for Solving Multiple-Objective Problems Using Scalarising and Evolutionary Approaches. International Journal for Reasoning-based Intelligent Systems, Vol. 7, 1/2, 2015, ISSN:1755-0564 (online), 1755-0556 (print), DOI:10.1504/IJRIS.2015.070907, 4 - 15. SJR:0.109
93. **Kolchakov, K., Monov, V..** A comparison study of an algorithm for non conflict schedule with diagonal activation of joint sub matrices in a large scale switching matrix. Information Technologies and Control, 2, 2015, ISSN:Print 1312-2622, On-line 2367-5357, 31 - 35
94. **Kolchakov, K., Monov, V..** Adaptive algorithm for management by weight coefficients of the traffic in crossbar commutator. International Journal “Information Models and Analyses”, 4, 1, 2015, ISSN:1314-6416(print), 1314-6432(online), 53 - 60
95. Kolev, A., **Dimov, D..** Augmented Reality as a Method for Expanded Presentation of Objects of Digitized Heritage. Serdica Journal of Computing, 8, 4, IMI-BAS, 2015, ISSN:ISSN 1312-6555, 355 - 362
96. **Koprinkova-Hristova, P., Alexiev, K..** ACD with ESN for Tuning of MEMS Kalman Filter. Lecture Notes in Computer Science, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_24, 226 - 233. SJR:0.339
97. **Koprinkova-Hristova, P., Bozhkov, L., Georgieva, P..** Echo state networks for feature selection in affective computing. Lecture Notes in Artificial Intelligence, 9086, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-18944-4_11, 131 - 141. SJR:0.339
98. **Koprinkova-Hristova, P., Kostov, G., Popova, S..** Intelligent Optimization of a Mixed Culture Cultivation Process. Int. J. Bioautomation, 19, s1, 2015, ISSN:13141902, S113 - S124. SJR:0.228
99. **Koprinkova-Hristova, P..** Hebbian versus gradient training of ESN actors in closed-loop ACD. Lecture Notes in Computer Science, 8962, Springer, 2015, ISSN:03029743, DOI:10.1007/978-3-319-15585-2_11, 95 - 102. SJR:0.339
100. **Koprinkova-Hristova, P..** On effects of IP improvement of ESN reservoirs for reflecting of data structure. Proc. of the International Joint Conference on Neural Networks (IJCNN), July 12 - 17,

Killarney, Ireland, IEEE, 2015, ISBN:978-147991960-4, DOI:10.1109/IJCNN.2015.7280703, Article No - 7280703. SJR:0.18

101. **Korsemov Ch., Toshev Hr.**. Optimal Planning of the Production of Corpus Details on Metal Cutting Machines with the Help of Computer Numeric Control. Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 33 - 42
102. **Korsemov, Ch., Toshev, H. I.**. Optimal Cutting of the Glass and the Profiles for Joinery Work. Problems of Engineering Cybernetics and Robotics, 66, Bulgarian Academy of Sciences, 2015, ISSN:0204-9848, 3 - 10
103. **Kosturski, N., Lirkov, I., Margenov, S., Vutov, Y.**. Thermoelectrical Tick Removal Process Modeling. Lecture Notes in Computer Science, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_41, 369 - 376. SJR:0.339
104. **Kosturski, N., Margenov, S., Popov, P., Simeonov, N., Vutov, Y..** Performance Analysis of Block AMG Preconditioning of Poroelasticity Equations. Lecture Notes in Computer Science, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_42, 377 - 384. SJR:0.339
105. **Kudriashov, V.V., Garbar, A.Y., Lukin, K.A., Maslikowski, L., Samczynski, P., Kulpa, K.S..** Fusion of Images Generated by Radiometric and Active Noise SAR. Cybernetics and Information Technologies, 15, 7, Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0089, 58 - 66. SJR:0.17
106. **Kudriashov, V.V..** A Modified Maximum Likelihood Method for Estimation of Mutual Delay and Power of Noise Signals by Bistatic Radiometer. Comptes Rendus - Academie Bulgarie des Sciences, 68, 5, Издателство на БАН - Проф. МАРИН ДРИНОВ, 2015, ISSN:1310–1331, 631 - 640. SJR:0.21, ISI IF:0.284
107. **Kudriashov, V.V..** Non-stationary Random Wiener Signal Detection Criterion Variants for Case of Monostatic Reception. Proceedings of 7th Balkan Conference in Informatics, Article No. 30; 2-4 September 2015; Craiova, Romania, 2015, ISBN:978-1-4503-3335-1, DOI:10.1145/2801081.2801089
108. Lazarov N., **Ilcheva Z..** Comparison of Various space-Filling Corves for Lossless Data Hiding Using a Histogram Modification. Problems of Engineering Cybernetics and Robotics, 66, Проф. М. Дринов, 2015, ISSN:0204-9848, 21 - 32
109. Lazarov N., **Ilcheva Z..** Reversible Data Hiding Using a Histogram Modification. Problems of Engineering Cybernetics and Robotics, 66, Проф. Марин Дринов, 2015, ISSN:0204-9848, 11 - 20
110. Liapis A., A. Kostaridis, A. Ramfos,, Hall, I., A. Degaetano, N. Koutras,, **Dobrinkova N., Leventakis G., A. Olunczek, G. Seynaeve,, Boustras G. , K. Gogosis.** A Position Paper on Improving Preparedness and Response of Health Services in Major Crises. Lecture Notes in Business Information, Springer, 2015, ISBN:978-3-319-24399-3, ISSN:1865-1356, DOI:10.1007/978-3-319-24399-3, 205 - 216

111. **Lilkova, E.**, Petkov, P., **Ilieva, N.**, Litov, L.. Towards Molecular Modelling of the Impact of Heparin-Derived Oligosaccharides on hIFN-g Binding. AIP Conference Proceedings, 1684, AIP Publishing, 2015, ISSN:0094-243X, DOI:10.1063/1.4934292, 030008-1 - 030008-10. SJR:0.152
112. Liolios, An., Elenas, A., Liolios, A., Radev, S., **Georgiev, K.**, **Georgiev, I.**. Tall RC buildings environmentally degraded and strengthened by cables under multiple earthquakes: A numerical approach.. Lecture Notes in Computer Science (LNCS), 8962, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_46, 187 - 195. SJR:0.31
113. Liolios, An., Karabintis, A., Liolios A., Radev, S., **Georgiev, K.**, **Georgiev, I.**. A computational approach for the seismic damage response under multiple earthquakes excitations of adjacent RC structures strengthened by ties.. Computers and Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.08.012, 2742 - 2751. ISI IF:1.697
114. Lukin, K., Vyplavin, P., Palamarchuk, V., Lukin, S., **Kudriashov, V.**, Mischenko, E.. Radar tomography via time-division MIMO noise radar. Proceedings of Signal Processing Symposium (SPSympo) 2015; 10-12 June 2015; Debe, Poland, Institute of Electrical and Electronics Engineers Inc., 2015, ISBN:978-837798160-3, DOI:10.1109/SPS.2015.7168282, 1 - 4
115. Lukin, K.A., **Kudriashov, V.V.**, Vyplavin, P.L., Palamarchuk, V.P., Lukin, S.K.. Coherent radiometric imaging using antennas with beam synthesizing. International Journal of Microwave and Wireless Technologies, 7, Spec.Iss. 3-4, Cambridge University Press, 2015, ISSN:1759-0787, DOI:10.1017/S1759078715000550, 453 - 458. ISI IF:0.348
116. Lukin, K.A., Vyplavin, P.L., Palamarchuk, V.P., **Kudriashov, V.V.**, Kulpa, K., Gajo, Z., Misiurewicz, J., Kulpa, J.. Phase measurement accuracy in noise waveform synthetic aperture radar. IEEE Transactions on Aerospace and Electronic Systems, 51, 4, Institute of Electrical and Electronics Engineers Inc., 2015, ISSN:0018-9251, DOI:10.1109/TAES.2015.140537, 3364 - 3373. SJR:1.727, ISI IF:1.757
117. **Marinchev, I.**, **Agre, G.**. On speeding up the implementation of nearest neighbour search and classification. CompSysTech '15 International Conference on Computer Systems and Technologies, 1008, ACM New York, NY, USA, 2015, ISBN:978-1-4503-3357-3, DOI:10.1145/2812428.2812464, 207 - 213
118. **Marinov P.**, Kutiev I., Belehaki A., Tsagouri I.. Modeling the plasmasphere to topside ionosphere scale height ratio. J. Space Weather Space Clim.,, 5, A27, 2015, ISSN:2115-7251, DOI:DOI: 10.1051/swsc/2015028, A27p1 - A27p12. ISI IF:2.558
119. Mihajlovic, M., Bongo, L. A., Cieglis, R., Frasher, N., Kimovski, D., Kropf, P., **Margenov, S.**, Neytcheva, M., Rauber, T., Runger, G., Trobec, R., Wuylts, R., Wyrzykowski, R., Gong, J.. Applications for ultrascale computing. Supercomputing frontiers and innovations, 2, 1, 2015, ISSN:2313-8734, DOI:10.14529/jsfi1501, 19 - 48
120. **Minchev, Z.**, **Boyanov, L.**. Interactive Virtual Avatars. Design & Application Challenges for Future Smart Homes. Proceedings of ICAICTSEE – 2014, UNWE Publishing House, 2015, ISSN:2367-7643, DOI:10.13140/RG.2.1.5024.8161, 553 - 560

121. **Minchev, Z.**, Kelevedjiev, E., Gatev, P.. Audio-Visual Entrainment Influence on Postural Dynamics. Proceedings of International Workshop “Posture, Balance and the Brain”, Procon Ltd., 2015, ISBN:978-954-92521-7-0, DOI:10.11610/posture.08, 55 - 60
122. **Minchev, Z.**. Challenges to Future Training with Interactive Intelligent Avatars. UNESCO International Workshop ‘QED’ 14’, Za Bukvite, 2015, ISBN:978-619-185-163-8, DOI:10.13140/RG.2.1.3664.4969, 157 - 163
123. **Minchev, Z.**. Challenges to Human Factor for Advanced Persistent Threats Proactive Identification in Modern Social Networks. Information & Security: An International Journal, 34, Procon, 2015, DOI:10.11610/isij.3304
124. **Minchev, Z.**. Chapter 17. Human Factor Role for Cyber Threats Resilience. In: Metodi Hadji-Janev & Mitko Bogdanoski (Eds.). Handbook of Research on Civil Society and National Security in the Era of Cyber Warfare, IGI Global, Disseminator of Knowledge, 2015, ISBN:978146668793, DOI:10.4018/978-1-4666-8793-6.ch017, 548, 377 - 422
125. **Minchev, Z.**. Human Factor Dual Role in Modern Cyberspace Social Engineering. Proceedings of NATO ATC “Terrorist Use of Cyberspace”, 42, IOS Press, 2015, ISBN:978-1-61499-527-2, DOI:10.3233/978-1-61499-528-9-116, 116 - 128
126. **Minchev, Z.**. Modern Terrorism as Hybrid Threat and Digital Challenge. Journal of Defense Management, 5, 2, OMICS Publishing Group, 2015, ISSN:2167-0374, DOI:10.4172/2167-0374.1000129, I-1 - I-2
127. **Minchev, Z.**. Multiple Human Biometrics Fusion in Support of Cyberthreats Identification. International Journal 'Cybernetics & Information Technologies', 15, 4, IICT-BAS, 2015, ISSN:1314-4081, DOI:10.1515/cait-2015-0090, 67 - 76. SJR:0.212
128. Mirronova, M., Ivanova, M., Naidenov, V., **Georgiev, I.**, Stary, J.. Advanced study of fiber-reinforced self-compacting concrete. AIP Conf. Proc., 1684, AIP, 2015, DOI:10.1063/1.4934293, 030009-1 - 030009-8. SJR:0.15
129. **Monov V., Tashev T., Alexandrov A.**. Software implementation of several production scheduling algorithms. Proceedings of the Fifth International Symposium on Business Modeling and Software Design, SCITEPRESS - Science and Technology Publications, 2015, ISBN:978-989-758-111-3, 205 - 212
130. **Mustakerov, I., Borissova, D.**. Combinatorial optimization modeling approach for one-dimensional cutting stock problems. Int. Journal of systems applications, engineering & development, 9, 2015, ISSN:2074-1308, 13 - 18
131. **Nedjalkov M.**, Weinbub J. , P. Ellinghaus, S. Selberherr. The Wigner Equation in the Presence of Electromagnetic Potentials. Journal of Computational Electronics, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-015-0732-y., ISI IF:1.52
132. **Nikolov, A., Dimov, D.**. 2D Video Stabilization for Industrial High-Speed Cameras. Cybernetics and Information Technologies, 15, 7, IICT-BAS, 2015, ISSN:1311-9702, 23 - 34. SJR:0.212

133. **Nikolova, I.**, Zamanov, I., Kraeva, M., Hateva, N., Yovcheva, I., **Angelova, G.**. Voltron: A Hybrid System For Answer Validation Based On Lexical And Distance Features. Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015), Association for Computational Linguistics, 2015, ISBN:ISBN 978-1-941643-40, 242 - 246
134. **Osenova, P.**, **Simov, K.**. Modeling Lexicon-Syntax Interaction with Catenae. Journal of Cognitive Science, 16, 3, Seoul National University, College of Humanities, 2015, ISSN:ISSN: 1598-2327, DOI:10.17791, 287 - 322
135. **Osenova, P.**, **Simov, K.**. Semantic Role Annotation in BulTreeBank. Markus Dickinson, Erhard Hinrichs Agnieszka Patejuk and Adam Przepiórkowski (eds.) Proceedings of the Fourteenth International Workshop on Treebanks and Linguistic Theories (TLT14), Institute of Computer Science, Polish Academy of Sciences, 2015, ISBN:978-83-63159-18-4, 148 - 156
136. **Osenova, P.**, **Simov, K.**. Universalizing BulTreeBank: a Linguistic Tale about Glocalization. Proceedings of the 5th Workshop on Balto-Slavic Natural Language Processing, 2015, ISBN:978-954-452-033-5, 81 - 89
137. **Ostromsky, Tz.**, **Dimov, I. T.**, Alexandrov, V., Zlatev, Z.. Preparing Input Data for Sensitivity Analysis of an Air Pollution Model by using High-Performance Supercomputers and Algorithms. Computers & Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.07.020, 2773 - 2782. SJR:1.121, ISI IF:1.697
138. **Pavlov, Yu. P.**. Rational Portfolio investment based on Consumer's Preferences: Black-schools Model and Stochastic Control. Journal of Communication and Computer, 12, David Publishing, USA, 2015, DOI:10.17265/1548-7709/2014.05.001.
139. Petrova-Antanova D, **Ilieva S.**, Manova D.. TASSA: Testing Framework for web service orchestrations. Automation of Software Test (AST), 2015 IEEE/ACM 10th International Workshop, IEEE, 2015, DOI:10.1109/AST.2015.9, 8 - 12
140. Petrova-Antanova D., **Ilieva S.**, Kuncheva K.. Automatic Generation of Test Data for XML Schema-based Testing of Web Services. Proceedings of the 10th International Conference on Software Engineering and Applications, SCITEPRESS digital library, 2015, ISBN:978-989-758-114-4, DOI:10.5220/0005500602770284, 277 - 284
141. Popova, N., Shishkov, G., **Koprinkova-Hristova, P.**, **Alexiev, K.**. 3D Visualization of Sound Fields Perceived by Acoustic Camera. Cybernetics and Information Technologies, Special Issue on Information Fusion, 15, 7, БАН, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0088, 45 - 57. SJR:0.17
142. **Ratchev, V.**, Petkov, V., **Tagarev, T.**. Evolving Security Concepts: The Premium on Governance in the Case of Bulgaria. Information & Security: An International Journal, 33, 2, Procon, 2015, ISSN:0861-5160, DOI:10.11610/isij.3304, 83 - 107
143. Ribarics, R., Kenn, M., Karch, R., **Ilieva, N**, Schreiner, W.. Geometry Dynamics of α -Helices in Different Class I Major Histocompatibility Complexes. Journal of Immunology Research, 2015, Article ID 173593, Hindawi Publishing Corporation, 2015, ISSN:2314-8861, DOI:10.1155/2015/173593, ISI IF:2.934

144. Ribeiro, P., **Stoykov, S.**. Forced periodic vibrations of cylindrical shells in laminated composites with curvilinear fibres. *Composite Structures*, 131, Elsevier, 2015, ISSN:0263-8223, DOI:10.1016/j.compstruct.2015.05.050, 462 - 478. ISI IF:3.5
145. Roeva O., **Fidanova S.**, Paprzycki M.. Population Size Influence on the Genetic and Ant Algorithms Performance in Case of Cultivation Process Modelling. *Recent Advances in Computational Optimization: Results of the Worcsop on Computational Optimization WCO 2013*, Studies in Computational Intelligence, 580, Springer, 2015, ISBN:978-3-319-12630-2, ISSN:1860-949X, DOI:10.007/978-3-319-12631-9_7, 107 - 120. SJR:0.235
146. Roeva O., Vassilev P., **Fidanova S.**, Gepner P.. InterCriteria Analysis of a Model Parameters Identification Using Genetic Algorithm. *FedCSIS'2015*, EEE Xplorer, 2015, ISBN:978-83-60810-66-1, ISSN:2300-5963, DOI:10.15439/2015F233, 501 - 506
147. **Savov, S., Popchev, I.**. Robust Stability Analysis for a Perturbed Single-Area Power System Model. *Cybernetics and Information Technologies*, 15, 4, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0053, 42 - 49. SJR:0.17
148. **Savov, S., Popchev, I.**. Upper Bound for the Maximal Singular Value of a Squared Affine Parameter - Depent Matrix. *Comptes rendus de l'Academie bulgare des Sciences*, 68, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 367 - 374. SJR:0.21, ISI IF:0.284
149. Schreiner, W., Karch, R., Ribarics, R., Cibena, M., **Ilieva, N.**. Relative Movements of Domains in Large Molecules of the Immune System. *Journal of Immunology Research*, 2015, Article ID 210675, Hindawi Publishing Corporation, 2015, DOI:10.1155/2015/210675, ISI IF:2.934
150. **Sellier, J. M., Dimov, I. T.**. On the simulation of indistinguishable fermions in the many-body Wigner formalism. *Journal of Computational Physics*, 280, 2015, ISSN:0021-9991, 287 - 294. SJR:1.921, ISI IF:3.184
151. **Sellier, J. M., Dimov, I. T.**. Wigner functions, signed particles, and the harmonic oscillator. *Journal of Computational Electronics*, 14, 4(2015), 2015, ISSN:1569-8025, 907 - 915. ISI IF:1.52
152. **Sellier, J. M., Nedjalkov, M., Dimov, I. T.**. An introduction to applied quantum mechanics in the Wigner Monte Carlo formalism. *Physics Reports*, 577, 2015, ISSN:0370-1573, DOI:10.1016/j.physrep.2015.03.001, 1 - 34. ISI IF:22.91
153. **Sellier, J. M., Svierscoski, R. F., Dimov, I. T.**. On the Wigner Monte Carlo Method Coupled to Pseudopotential Models. *Journal of Computational and Applied Mathematics*, 293, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2015.01.033, 217 - 222. ISI IF:1.266
154. **Sgurev, V., Drangajov, St.**. Intelligent Control of flows with Risk on a Network. Proc. of the 7-th IEEE International Conference Intelligent Systems - IS'2014, 2, Springer International Publishing, 2015, ISBN:978-3-319-11309-8, ISSN:2194-5357, DOI:10.1007/978-3-319-11310-4, 27 - 37
155. **Sgurev, V.**. An Essay on Real Imaginary and Complex Sets. *Comptes rendus de l'Academie bulgare des Sciences*, 68, 7, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 833 - 842. SJR:0.21, ISI IF:0.284

156. **Sgurev, V.**. Features of Equivalence in the Complex S-logic. Comptes rendus de l'Academie bulgare des Sciences, 68, 11, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 1357 - 1364. SJR:0.21, ISI IF:0.284
157. Shishkov, G., Popova, N., **Alexiev, K., Koprinkova-Hristova, P.**. Investigation of some parameters of a neuro-fuzzy approach for dynamic sound fields visualization. 2015 IEEE International Symposium on Innovations in Intelligent Systems and Applications, September, 2-4, Madrid, Spain, IEEE, 2015, DOI:10.1109/INISTA.2015.7276769, 1 - 8
158. **Simov, K.**, Kiryakov, A.. Accessing Linked Open Data via A Common Ontology. Proceedings of the Second Workshop on Natural Language Processing and Linked Open Data, 2015, ISBN:978-954-452-035-9, 33 - 41
159. **Simov, K., Osenova, P.**. Catena Operations for Unified Dependency Analysis. Proceedings of the Third International Conference on Dependency Linguistics (Depling 2015), Uppsala University, Department of Linguistics and Philology, 2015, ISBN:978-91-637-8965-6, 320 - 329
160. **Simov, K., Popov, A., Osenova, P.**. Improving Word Sense Disambiguation with Linguistic Knowledge from a Sense Annotated Treebank. Proceedings of Recent Advances in Natural Language Processing, 2015, ISSN:1313-8502, 596 - 603
161. **Simov, K.**, Simova, I., **Todorova, V., Osenova, P.**. Factored models for Deep Machine Translation. Proceedings of the 1st Deep Machine Translation Workshop (DMTW 2015), Charles University in Prague, Faculty of Mathematics and Physics, Institute of Formal and Applied Linguistics, 2015, ISBN:978-80-904571-7-1, 97 - 105
162. **Staykov, B.**. Solving multicriteria optimization problems with WebOptim software system. Cybernetics and Information Technologies, 15, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0049, 165 - 177. SJR:0.212
163. **Stoilov T., Stoilova K.**, Papageorgiou M., Papamichail I.. Bi-Level Optimization in a Transport Network. Cybernetics and Information Technologies, 15, 5, Marin Drinov, 2015, ISSN:Print ISSN: 1311-9702 Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0023, 37 - 49. SJR:0.212
164. **Stoimenov, N.**. Advanced computing for energy efficiency of milling processes. Problems of Engineering Cybernetics and Robotics, 66, 2015, ISSN:0204-9848, 83 - 91
165. **Stoyanova, Kr.**. Optimization Model of Loan Portfolio. Sixth International Scientific Conference – FMNS2015 South-West University, Faculty of Mathematics and Natural Sciences 10 – 14 June 2015, 1, South-West University, Blagoevgrad, Bulgaria, 2015, ISSN:ISSN 1314-0272, 38 - 43
166. **Stoykov, S., Harizanov, S., Margenov, S.**. Space discretization by B-Splines on discontinuous problems in structural mechanics. Proceedings of the 7th Balkan Conference on Informatics, ACM, 2015, ISBN:978-1-4503-3335-1, DOI:10.1145/2801081.2801113, 31:1 - 31:7
167. **Stoykov, S., Hofreither, C., Margenov, S.**. Isogeometric Analysis for Nonlinear Dynamics of Timoshenko Beams. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:978-3-319-15584-5, DOI:10.1007/978-3-319-15585-2_16, 138 - 146. SJR:0.34

168. **Stoykov, S.**, Litak, G., Manoach, E.. Vibration energy harvesting by a Timoshenko beam model and piezoelectric transducer. *The European Physical Journal Special Topics*, 224, 14, Springer, 2015, ISSN:1951-6355, DOI:10.1140/epjst/e2015-02587-3, 2755 - 2770. ISI IF:1.399
169. **Stoykov, S.**, Manoach, E., **Margenov, S.**. An efficient 3D numerical beam model based on cross sectional analysis and Ritz approximations. *ZAMM - Journal of Applied Mathematics and Mechanics*, Wiley, 2015, ISSN:1521-4001, DOI:10.1002/zamm.201400139, ISI IF:1.162
170. **Stoykov, S.**, **Margenov, S.**. Scalability of Shooting Method for Nonlinear Dynamical Systems. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_45, 401 - 408. SJR:0.34
171. **Sviercoski, R.**, Efendiev, Y., Mohanty, B., Yuan, Y.. Upscaling the coupled water flow and heat transfer in the subsurface – Comparison between numerical and field data. *Application of Mathematics in Technical and Natural Sciences*, 1684, American Institute of Physics, 2015, ISBN:978-0-7354-1331-3, ISSN:0094243X, DOI:10.1063/1.4934294, 030010 - 030010. SJR:0.152
172. Sviercoski, R., Popov, P., **Margenov, S.**. An analytical coarse grid operator applied to a multiscale multigrid method. *Journal of Computational and Applied Mathematics*, 287, 15, Elsevier, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2015.03.001, 207 - 219. SJR:1.104, ISI IF:1.266
173. **Tagarev, T.**, Sharkov, G.. Multi-stakeholder Approach to Cybersecurity and Resilience. *Information & Security: An International Journal*, 34, Procon, 2015, ISSN:0861-5160, DOI:10.11610/isij.3406
174. **Tashev T.**, **Monov V.**, Marinov M.. Computer simulation of the throughput of crossbar switch with modified Chang's model for load traffic. *Материалы Восемнадцатой Международной Научной Конференции Распределенные компьютерные и телекоммуникационные сети: Управление, вычисление, связь (DCCN-2015)*, ИПУ РАН, 2015, ISBN:978-5-91450-170-6, 337 - 344
175. **Tashev T.**, **Monov V.**, Tasheva R.. Load optimization in a grid structure for parallel simulations of the throughput of a packet switch node. *Journal "Information Technology and Control"*, 2, John Atanasoff Society of Automatics and Informatics, 2015, ISSN:1312-2622, DOI:10.1515/itc-2015-0013, 23 - 30
176. **Tashev T.**, **Monov V.**. A numerical study of the upper bound of the throughput of a crossbar switch utilizing MiMa-algorithm. *Numerical Methods and Applications*, 8962, Springer International Publishing, 2015, ISBN:978-3-319-15584-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_33, 295 - 303. SJR:0.339
177. Tashev, S., **Philipov, Ph.**, Tashev, T.. Emulation and Analytical Model of PIM Supplemental Computing Element via HDL. *Information Technologies and Control*, YEAR XII, 2/2014, John Atanasoff Society of Automatics and Informatics, 2015, ISSN:Print ISSN: 1312-2622; Online ISSN: 2367-5357, DOI:10.1515/itc-2015-0012, 19 - 22
178. **Tchamova, A.**, Dezert, J., Bocheva, N., Konstantinova, P.. Human Integration of Motion and Texture Information in Visual Slant Estimation, Part 2, Chapter 12. *Advances and Applications of*

DSmT for Information Fusion (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 387 - 393

179. **Tchamova, A.**, Dezert, J., Konstantinova, P.. The Impact of the Quality Assessment of Optimal Assignment for Data Association in a Multitarget Tracking Context. *Cybernetics and Information Technologies Journal, Special Issue on Control in Transportation Systems*, 15, 7, БАН, 2015, ISSN:Print ISSN: 1311-9702; Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0013, 88 - 98. SJR:0.212
180. **Tchamova, A.**, Dezert, J.. Intelligent Alarm Prioritization based on DSmT, Part 2, Chapter, Chapter 11. *Advances and Applications of DSmT for Information Fusion* (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 381 - 387
181. **Tchamova, A.**, Dezert, J.. On the Behavior of Dempster Rule of Combination and the Foundations of Dempster-Shafer Theory, Part 1, Chapter 21. *Advances and Applications of DSmT for Information Fusion* (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 177 - 183
182. **Tchamova, A.**, Dezert, J.. Tracking applications with fuzzy-based fusion rules, Part 2, Chapter 14. *Advances and Applications of DSmT for Information Fusion* (Eds. Smarandache, F., J. Dezert), 4, American Research Press, 2015, ISBN:978-1-59973-324-1, 403 - 409
183. Tcharaktchiev, D., **Boytcheva, S.**, Angelov, Z., **Nikolova, I.**, **Angelova, G.**. Towards Integrated Analysis of Risk Factors and Diabetes Prevention using Big Data and Natural Language Processing. *Proceedings of the Seventh International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED 2015)*, 1, IARIA XPS Press, 2015, ISBN:978-1-61208-384-1, ISSN:2308-4359, 124 - 129
184. **Terzieva, V.**, **Todorova K.**, **Kademova-Katzarov P.**. Big Data – Opportunities and Challenges for Education. Сборник от доклади от 8 Национална Конференция "Образованието и изследванията в информационното общество", 2015, ISSN:1314-0752, 136 - 145
185. **Terziyska, M.**, **Doukovska, L.**, Petrov, M.. Implicit Generalized Predictive Controller Based on Semi Fuzzy Neural Network Model. *Mathematical Foundations, Theory, Analyses*, 1, 322, Springer International Publishing, 2015, ISBN:978-3-319-11312, ISSN:2194-5357, DOI:10.1007/978-3-319-11313-5, 695 - 706
186. **Terziyska, M.**. A Distributed Adaptive Neuro-Fuzzy Network for Chaotic Time Series Prediction. *Cybernetics and Information Technologies*, 15, 1, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1314-4081, DOI:10.1515/cait-2015-0003, 24 - 33. SJR:0.212
187. **Todorov, Y.**, Miteva, D., Dimov, K., Nacheva, I., Doneva, M., Metodieva, P., Tsvetkov, Tsv.. Prolongation of the storage and quality preservation of potato semi-finished foods by specific technological treatment. *Bulgarian Journal of Agricultural Science*, 21, 1, Agricultural Academy, Bulgaria, 2015, ISSN:1310-0351, 174 - 177. SJR:0.196
188. **Todorov, Y.**, **Terziyska, M.**, **Doukovska, L.**. Distributed Fuzzy-Neural State-Space Predictive Control. *Proceedings of 16th IEEE Conference on "Process Control"*, IEEEXplore, 2015, DOI:10.1109/PC.2015.7169934, 31 - 36

189. **Todorov, Y., Terziyska, M., Doukovska, L.** Neo-fuzzy Neural Network for modeling of nonlinear MIMO dynamics. Journal of Technical University- Sofia, branch Plovdiv, 21, 1, Technical University- Sofia, branch Plovdiv, 2015, ISSN:1310-8271, 65 - 71
190. **Todorov, Y., Terziyska, M.**, Nacheva, I., Doneva, M., Metodieva, P.. Analysis of the particle distributuon in granular functional food. Fundamental Sciences and Applications, Journal of Technical University-Sofia, branch Plovdiv, 21, 1, Technical University-Sofia, branch Plovdiv, 2015, ISSN:1310-8271, 361 - 366
191. **Todorov, Y., Terziyska, M.**. Comparative Study on the Efficiency of Hybrid Learning Procedures Used for Training of Fuzzy-Neural Networks. Mathematics in Industry, Cambridge Scholars Publising, 2015, ISBN:978-1-4438-6401-5, 246 - 257
192. **Todorov, Y., Terziyska, M.**. NEO-Fuzzy State-Space Predictive Control. IFAC Papers On-line, Volume 48, Issue 24, Elsevier, 2015, ISSN:2405-8963, 99 - 104
193. **Todorov, Y., Terziyska, M.**. Simple heuristic approach for training of Type-2 NEO-Fuzzy Neural Network. Proc. of the IEEE International Conference Process Control - PC'15, IEEEXplore, 2015, DOI:10.1109/PC.2015.7169976, 278 - 283
194. **Todorova, V., Simov, K.**. Training Automatic Transliteration Models on DBpedia Data. Proceedings of Recent Advances in Natural Language Processing, 2015, ISSN:1313-8502, 654 - 662
195. **Trichkova, E.**. ISO 9126 based quality assessment approach for e-Learning system. Journal of Information Technology and Control, Volume 12, Issue 1, 2015, ISSN:1312-2622, DOI:10.1515/itc-2015-0008, 21 - 29
196. Valkanov, V., Stoyanova-Doycheva, S., Doychev, S., Stoyanov, S., **Popchev, I., Radeva, I.**. AjTempura –First Software Prototype of C3A Model. Proc. of the 7th IEEE International Conference Intelligent Systems IS'2014, September 24–26, 2014, Warsaw, Poland, Volume 1: Mathematical Foundations, Theory, Analyses. Senies. Advances in Intelligent Systems and Computing., 322, 1, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-11312-5, ISSN:2194-5357, 427 - 438
197. Van-Hieu Vu, Hai-Son Le, **O. Kanishcheva, G. Angelova**. Fine-tuning SIMPLE based Content Based Image Retrieval system. The Sixth International Symposium on Information and Communication Technology (SoICT 2015), ACM New York, NY, USA, 2015, ISBN:978-1-4503-3843-1, DOI:10.1145/2833258.2833273, 231 - 238
198. Vollmer, M., **Tagarev, T.**, Frech, I.. Analysing organisational, legal, and political framework conditions to support the implementation of new crisis management solutions. 10th Future Security 2015. Security Research Conference. Proceedings, Fraunhofer Verlag, 2015, ISBN:978-3-8396-0908-8, 145 - 152
199. Wang L. , A. Brown, **Nedjalkov M.**, Alexander C, B. Cheng, C. Millar, A. Asenov:. Impact of Self-Heating on the Statistical Variability in Bulk and SOI FinFETs. IEEE Transactions on Electron Devices, 2015, ISSN:0018-9383, DOI:doi:10.1109/TED.2015.2436351, ISI IF:2.47

200. Wang L. , A. R. Brown, **Nedjalkov M.**, Alexander C., B. Cheng, C. Millar, A. Asenov.. 3D Electro-Thermal Simulations of Bulk FinFETs with Statistical Variations. Proceedings of the 20th International Conference on Simulation of Semiconductor Processes and Devices (SISPAD), 2015, ISBN:978-1-4673-785, DOI:DOI: 10.1109/SISPAD.2015.7292271
201. Wang I., T. Sadi, **Nedjalkov M.**, Brown A.R., C. Alexander, B. Cheng, C. Millar, A. Asenov.. An Advanced Electro-Thermal Simulation Methodology For Nanoscale Device. Proceedings of the 2015 International Workshop on Computational Electronics (IWCE), 2015, ISBN:ISBN: 978-0-692-5152, DOI:DOI: 10.1109/IWCE.2015.7301989
202. Wasielewska, K., Ganzha, M., Paprzycki, M., Bădică, C., Ivanovic, M., **Lirkov, I.**. Semantic Technologies in a Decision Support System. Application of Mathematics in Technical and Natural Sciences, 1684, American Institute of Physics, 2015, ISSN:0094-243X, DOI:10.1063/1.4934301, 060002-1 - 060002-12. SJR:0.152
203. Weinbub J., Ellinghaus P., **Nedjalkov M.**. Domain Decomposition Strategies for the Two-Dimensional Wigner Monte Carlo Method. Journal of Computational Electronics, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-015-0730-0, ISI IF:1.52
204. Zlatev, Z., **Georgiev, K.**, **Dimov, I.**. Selecting Explicit Runge-Kutta Methods with Improved Stability Properties. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISSN:978-3-319-26519-3; Online ISBN978-3-319-26520-9, DOI:10.1007/978-3-319-26520-9_46, 409 - 416. SJR:0.34
205. Баканов А., **Ташев Т.**. Использование интеллектуальных агентов при разработке программного обеспечения систем управления крупномасштабными системами. Материалы Восьмой Международной конференции Управление развитием крупномасштабных систем MLSD'2015, II, ИПУ Российской Академии Наук, 2015, ISBN:978-5-91450-169-0, 269 - 271
206. Marinov M., Джамийков Т., Цербе Ф., **Ташев Т.**. Изследване на точността на сензори за въглероден диоксид в системи за вентилация, управявани според потребностите. Списание Инженерни науки, LII, 4, Институт по металознание, съоръжения и технологии "Акад. А.Балевски" с Център по хидро- и аеродинамика, БАН., 2015, ISSN:1312-5702, 15 - 27
207. **Стоянова, Кр.**. Биоинформатика-наука на новото време. Варненски медицински форум, 4, 2, 2015, ISSN:2367-5519, 7 - 14
208. Чаръкчиев, Д ., Захариева , С ., **Ангелова, Г .**, **Бойчева, С в .**, Ангелов, Ж .. Изграждане на национален регистър на болните от захарен диабет. Социална медицина, 1, 2, Научно дружество по социална медицина, информатика и здравен мениджмънт, 2015, ISSN:1310–1757, 19 – 21

E03/2.1:

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

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 - Статия в тематичен сборник
- **Статус на изданието:** С импакт фактор/ранг
- **Година на публикуване:** 2015 ÷ 2015

1. Alexandrov, V., Esquivel-Flores, O., **Ivanovska, S.**, Karaivanova, A.. On the Preconditioned quasi-Monte Carlo Algorithm for Matrix Computations. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_17, 163 - 171. SJR:0.339
2. **Alexiev K.**, Shishkov G., Popova N.. Human Activity Registration Using Multisensor Data Fusion. Special Issue of CIT, 15, 7, IICT - BAS, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0093, 99 - 108. SJR:0.17
3. **Andreev, A.B.**, Racheva, M.R.. On a Type of Nonconforming Morley Rectangular Finite Element. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:978-3-319-15584-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_32, 287 - 294. SJR:0.32
4. **Andreev, A.B.**, Racheva, M.R.. The Effect of a Postprocessing Procedure to Upper Bounds of the Eigenvalues. Lecture Notes in Computer Science, 8962, Springer, 2015, ISSN:03029743, DOI:10.1007/978-3-319-15585-2_31, 273 - 281. SJR:0.339
5. **Atanassov, E.**, **Dimitrov, D.**, **Gurov, T.**. Evaluation of stochastic algorithms for financial mathematics problems from point of view of energy-efficiency. AIP Conference Proceedings, 1684, AIP Publishing, 2015, ISBN:978-0-7354-1331-3, DOI:<http://dx.doi.org/10.1063/1.4934300>, SJR:0.152
6. **Atanassov, E.**, **Gurov, T.**, **Karaivanova, A.**. Energy Performance Evaluation of Quasi-Monte Carlo Algorithms on Hybrid HPC. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_18, 172 - 181. SJR:0.339
7. **Atanassov, E.**, **Gurov, T.**, **Karaivanova, A.**. Energy aware performance study for a class of computationally intensive Monte Carlo algorithms. Computers and Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:<http://dx.doi.org/10.1016/j.camwa.2015.07.014>, 2719 - 2725. SJR:1.121, ISI IF:1.697

8. **Balabanov, T., Zankinski, I., Barova, M.**. Distributed Evolutionary Computing Migration Strategy by Incident Node Participation. Large-Scale Scientific Computing, Lecture Notes in Computer Science, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/203 - 209. SJR:0.339
9. **Balabanov, T., Zankinski, I., Shumanov, B.**. Slot Machine RTP Optimization and Symbols Wins Equalization with Discrete Differential Evolution. Large-Scale Scientific Computing, Lecture Notes in Computer Science, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/210 - 217. SJR:0.339
10. **Balabanov, T., Zankinski, I., Shumanov, B.**. Slot Machines RTP Optimization with Generic Algorithms. Numerical Methods and Applications, 9374, Springer International Publishing Switzerland, 2015, ISBN:978-3-319-26520-9, DOI:10.1007/210 - 217. SJR:0.339
11. Bartczuk, Ł., Przybył, A., **Koprinkova-Hristova, P.**. New Method for Non-linear Correction Modelling of Dynamic Objects with Genetic Programming. Lecture Notes in Computer Science, 9120, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-19369-4_29, 318 - 329. SJR:0.339
12. Belehaki A., Tsagouri I., Kutiev I., **Marinov P.**, Zolesi B., Pietrella M., Themelis K., Elias P., Tziotziou K.. The European Ionosonde Service: Nowcasting and forecasting ionospheric conditions over Europe for the ESA Space Situational Awareness services. Journal of Space Weather and Space Climate, 5, 2015, ISSN:2115-7251, DOI:10.1051/swsc/2015026, A.25p1 - A25p22. SJR:1.11, ISI IF:2.558
13. **Borissova, D.**. An Optimal Staffing and Scheduling Approach in Open Shop Environment. Comptes rendus de l'Academie bulgare des Sciences, 68, 10, 2015, ISSN:1310-1331, 1295 - 1300. ISI IF:0.284
14. Bozhkov, L., **Koprinkova-Hristova, P.**, Georgieva, P.. Learning to decode human emotions with Echo State Networks. Neural Networks, Special Issue 2015, Elsevier, 2015, ISSN:0893-6080, DOI:10.1016/j.neunet.2015.07.005, SJR:1.303, ISI IF:2.708
15. Cervenka J. , P. Ellinghaus, **Nedjalkov M.**, Langer E.. Optimization of the Deterministic Solution of the Discrete Wigner Equation. Lecture Notes in Computer Science, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-2651, DOI:doi:10.1007/978-3-319-26520-9_29., SJR:0.31
16. Cervenka J., Ellinghaus P., **Nedjalkov M.**. Deterministic Solution of the Discrete Wigner Equation. Lecture Notes in Computer Science, 8962, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-1558, DOI:doi:10.1007/978-3-319-15585-2_17., SJR:0.339
17. Chernogorova, T., **Dimov, I. T.**, Vulkov, L.. A splitting numerical method for primary and secondary pollutant models. Lecture Notes in Computer Science, 9374, Springer Berlin Heidelberg, 2015, ISBN:978-3-319-26519-3; O, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_35, 303 - 311. SJR:0.31
18. Dichev, Ch., Dicheva, D., **Agre, G.**, **Angelova, G.**. Trends and Opportunities in Computer Science OER Development. Cybernetics and Information Technologies, 15, 3, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0045, 114 - 126. SJR:0.17

19. Dicheva, D., Dichev, Ch., **Agre, G.**, **Angelova, G.**. Gamification in Education: A Systematic Mapping Study. *Educational Technology & Society*, 18, 3, 2015, ISSN:1176-3647, ISI IF:1.376
20. **Dimov, I. T.**, Maire, S., **Sellier, J. M.**. A New Walk on Equations Monte Carlo Method for Linear Algebraic Problems. *Applied Mathematical Modelling*, 39, 15(2015), 2015, ISSN:0307-904X, 4494 - 4510. ISI IF:2.251
21. **Dimov, I. T.**, **Nedjalkov, M.**, **Sellier, J. M.**, Selberherr, S.. Boundary conditions and the Wigner equation solution. *Journal of Computational Electronics*, 14, 4(2015), 2015, ISSN:1569-8025 (print version), 1572-8137 (Online), DOI:10.1007/s10825-015-0720-2, 859 - 863. ISI IF:1.52
22. **Dimov, I. T.**, **Sellier, J. M.**, **Ivanova, D.Y.**. Molecular descriptors and quasi-distribution functions. *Computers and Mathematics with Applications*, 70, 11(2015), 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.06.037, 2726 - 2731. ISI IF:1.697
23. **Dimov, I. T.**, **Sellier, J. M.**, **Nedjalkov, M.**, Selberherr, S. A Comparison of Approaches for the Solution of the Wigner Equation. *Mathematics and Computers in Simulations*, 107, 2015, ISSN:0378-4754, DOI:10.1016/j.matcom.2014.06.001, 108 - 119. ISI IF:1.033
24. **Dimov, I. T.**, **Sellier, J. M.**. A sensitivity study of the Wigner Monte Carlo method. *Journal of Computational and Applied Mathematics*, 277, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2014.09.010, 87 - 93. ISI IF:1.672
25. **Dimov, I.**, **Sellier, J. M.**. Toward soltronics design in the Wigner formalism. *Physica A: Statistical Mechanics and its Applications*, 417, 2015, ISSN:0378-4371, DOI:10.1016/j.physa.2014.09.057, 287 - 296. ISI IF:1.722
26. Dobreva, M., **Angelova, G.**, **Agre, G.**. Bridging the Gap between Digital Libraries and eLearning. *Cybernetics and Information Technologies*, 15, 4, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0057, 92 - 110. SJR:0.17
27. **Dobrinkova N.**, Dobrinkov G.. Input Data Preparation for Fire Behavior Fuel Modeling of Bulgarian Test Cases (Main Focus on Zlatograd Test Case).. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:1611-3349, DOI:10.1007/978-3-319-26520-9, 335 - 342. SJR:0.339
28. **Doukovska, L.**. Track-Before-Detect Procedure using Hough Velocity Estimation Technique. *Comptes rendus de l'Academie bulgare des Sciences*, 68, 9, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 1153 - 1160. SJR:0.21, ISI IF:0.284
29. Ellinghaus P., **Nedjalkov M.**, Selberherr, S. Optimized Particle Regeneration Scheme for the Wigner Monte Carlo Method. *Lecture Notes in Computer Science*, 8962, Springer, 2015, ISBN:978-3-319-15584-5, DOI:doi:10.1007/978-3-319-15585-2_3., 27 - 33. SJR:0.339
30. Ellinghaus P., **Nedjalkov M.**, Selberherr, S. The Influence of Electrostatic Lenses on Wave Packet Dynamics. *Lecture Notes in Computer Science*, 9374, Springer International Publishing, 2015, ISBN:ISBN: 978-3-319-2651, DOI:doi:10.1007/978-3-319-26520-9_30, 277 - 284. SJR:0.339

31. Ellinghaus, P., Weinbub, J., **Nedjalkov M.**, Selberherr, S., **Dimov I.**. Distributed-Memory Parallelization of the Wigner Monte Carlo Method Using Spatial Domain Decomposition. *Journal of Computational Electronics*, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-014-0635-3., 151 - 162. ISI IF:1.52
32. **Fidanova S.**, **Ilcheva Z.**. Application of Ants Ideas on Image Edge Detection. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.007/978-3-319-26520-9, 218 - 225. SJR:0.339
33. **Fidanova S.**, Pop P.. An Ant Algorithm for the Partitioned Graph Coloring Problem. *Lecture Notes in Computer Science*, 8962, Springer, 2015, ISBN:ISBN 978-3-319-15584, ISSN:ISSN 0302-9743, DOI:0.1007/978-3-319-15585-2, 78 - 84. SJR:0.339
34. Ganzha, M., **Georgiev, K.**, Lirkov, I., Paprzycki, M.. An application of partition method for solving 3D Stokes equation. *Computers & Mathematics with Applications*, 70, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.04.025, 2762 - 2772. SJR:1.121, ISI IF:1.697
35. Gegov,A., Sanders,D., **Vatchova,B.**. Complexity management methodology for fuzzy systems with feedforward rule bases. *International Journal of Knowledge-based and Intelligent Engineering Systems*, vol.19, 2, IOS Press Content Library, 2015, ISSN:1327-2314 (P) ISSN 1875-8827 (E), DOI:10.3233/KES-150310, 83 - 95. SJR:0.246
36. Genova, K., **Kirilov, L..**, Guliashki, V.. A Survey of Solving Approaches for Multiple Objective Flexible Job Shop Scheduling Problems. *Cybernetics and Information Technologies*, 2, BAS, Institute of Information and Communication Technologies, 2015, ISSN:1311-9702, 3 - 22. SJR:0.212
37. **Georgiev, I.**, Harizanov, S., Vutov, Y.. Supervised 2-Phase Segmentation of Porous Media with Known Porosity. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_38, 343 - 351. SJR:0.339
38. **Georgiev, I.**, Ivanov, E., **Margenov, S.**, Vutov, Y.. Numerical Homogenization of Epoxy-Clay Composite Materials. *LNCS*, 8962, Springer, 2015, ISBN:978-3-319-15585-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_15, 130 - 137. SJR:0.34
39. Georgieva, P., **Popchev, I.**, Stoyanov, S.. A Multi-Step Procedure for Asset Allocation in Case of Limited Resources. *Cybernetics and Information Technologies*, 15, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0040, 41 - 51. SJR:0.17
40. **Harizanov, S.**, **Margenov, S.**, Zikatanov, L.. Fast Constrained Image Segmentation Using Optimal Spanning Trees. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_2, 15 - 29. SJR:0.339
41. **Ilieva, N.**, Dai, J., Sieradzan, A., Niemi, A.. Solitons And Protein Folding: An In Silico Experiment. *AIP Conference Proceedings*, 1684, AIP Publishing, 2015, ISSN:0094-243X, DOI:10.1063/1.4934290, 030006-1 - 030006-10. SJR:0.152
42. **Ivanov VI.**. Using a PicoBlaze Processor to Traffic Light Control. *Cybernetics and Information Technologies*, 15, 5, Marin Drinov, 2015, ISSN:Print ISSN: 1311-9702 Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0023, 131 - 139. SJR:0.212

43. Ivanov, P.M., **Atanassov, E.J.**, Jaime, C.. Computational study on the intramolecular self-organization of the macrorings of some 'giant' cyclodextrins (CD(n), n = 40, 70, 85, 100). *Org. Biomol. Chem.*, 13, 6, The Royal Society of Chemistry, 2015, ISSN:1477-0520, DOI:<http://dx.doi.org/10.1039/C4OB02218A>, 1680 - 1689. ISI IF:3.562
44. **Kapanova, K.G., Dimov, I., Sellier, J.M.**. On randomization of neural networks as a form of post-learning strategy. *Soft Computing*, Springer, 2015, ISSN:1433-7479, DOI:10.1007/s00500-015-1949-1, ISI IF:1.271
45. **Karaivanova, A., Ivanovska, S., Gurov, T.**. Monte Carlo Method for Density Reconstruction Based on Insufficient Data. *Procedia Computer Science*, 51, Elsevier, 2015, ISSN:1877-0509, DOI:10.1016/j.procs.2015.05.390, 1782 - 1790. SJR:0.503
46. **Kirilov, L., Guliashki, V.**, Genova, K., Zhivkov, P., **Staykov, B.**, Vatov, D.. Interactive Environment WebOptim for Solving Multiple-Objective Problems Using Scalarising and Evolutionary Approaches. *International Journal for Reasoning-based Intelligent Systems*, Vol. 7, 1/2, 2015, ISSN:1755-0564 (online), 1755-0556 (print), DOI:10.1504/IJRIS.2015.070907, 4 - 15. SJR:0.109
47. **Koprinkova-Hristova, P., Alexiev, K.**. ACD with ESN for Tuning of MEMS Kalman Filter. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_24, 226 - 233. SJR:0.339
48. **Koprinkova-Hristova, P.**, Bozhkov, L., Georgieva, P.. Echo state networks for feature selection in affective computing. *Lecture Notes in Artificial Intelligence*, 9086, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-18944-4_11, 131 - 141. SJR:0.339
49. **Koprinkova-Hristova, P.**, Kostov, G., Popova, S.. Intelligent Optimization of a Mixed Culture Cultivation Process. *Int. J. Bioautomation*, 19, s1, 2015, ISSN:13141902, S113 - S124. SJR:0.228
50. **Koprinkova-Hristova, P.**. Hebbian versus gradient training of ESN actors in closed-loop ACD. *Lecture Notes in Computer Science*, 8962, Springer, 2015, ISSN:03029743, DOI:10.1007/978-3-319-15585-2_11, 95 - 102. SJR:0.339
51. **Koprinkova-Hristova, P.**. On effects of IP improvement of ESN reservoirs for reflecting of data structure. *Proc. of the International Joint Conference on Neural Networks (IJCNN)*, July 12 - 17, Killarney, Ireland, IEEE, 2015, ISBN:978-147991960-4, DOI:10.1109/IJCNN.2015.7280703, Article No - 7280703. SJR:0.18
52. **Kosturski, N., Lirkov, I., Margenov, S., Vutov, Y.**. Thermoelectrical Tick Removal Process Modeling. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_41, 369 - 376. SJR:0.339
53. **Kosturski, N., Margenov, S.**, Popov, P., Simeonov, N., Vutov, Y.. Performance Analysis of Block AMG Preconditioning of Poroelasticity Equations. *Lecture Notes in Computer Science*, 9374, Springer, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_42, 377 - 384. SJR:0.339
54. **Kudriashov, V.V., Garbar, A.Y., Lukin, K.A., Maslikowski, L., Samczynski, P., Kulpa, K.S.**. Fusion of Images Generated by Radiometric and Active Noise SAR. *Cybernetics and Information*

Technologies, 15, 7, Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0089, 58 - 66. SJR:0.17

55. **Kudriashov, V.V.**. A Modified Maximum Likelihood Method for Estimation of Mutual Delay and Power of Noise Signals by Bistatic Radiometer. Comptes Rendus - Academie Bulgarie des Sciences, 68, 5, Издателство на БАН - Проф. МАРИН ДРИНОВ, 2015, ISSN:1310–1331, 631 - 640. SJR:0.21, ISI IF:0.284
56. **Lilkova, E.**, Petkov, P., **Ilieva, N.**, Litov, L.. Towards Molecular Modelling of the Impact of Heparin-Derived Oligosaccharides on hIFN-g Binding. AIP Conference Proceedings, 1684, AIP Publishing, 2015, ISSN:0094-243X, DOI:10.1063/1.4934292, 030008-1 - 030008-10. SJR:0.152
57. Liolios, An., Elenas, A., Liolios, A., Radev, S., **Georgiev, K.**, **Georgiev, I.**. Tall RC buildings environmentally degraded and strengthened by cables under multiple earthquakes: A numerical approach.. Lecture Notes in Computer Science (LNCS), 8962, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_46, 187 - 195. SJR:0.31
58. Liolios, An., Karabintis, A., Liolios A., Radev, S., **Georgiev, K.**, **Georgiev, I.**. A computational approach for the seismic damage response under multiple earthquakes excitations of adjacent RC structures strengthened by ties.. Computers and Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.08.012, 2742 - 2751. ISI IF:1.697
59. Lukin, K.A., **Kudriashov, V.V.**, Vyplavin, P.L., Palamarchuk, V.P., Lukin, S.K.. Coherent radiometric imaging using antennas with beam synthesizing. International Journal of Microwave and Wireless Technologies, 7, Spec.Iss. 3-4, Cambridge University Press, 2015, ISSN:1759-0787, DOI:10.1017/S1759078715000550, 453 - 458. ISI IF:0.348
60. Lukin, K.A., Vyplavin, P.L., Palamarchuk, V.P., **Kudriashov, V.V.**, Kulpa, K., Gajo, Z., Misiurewicz, J., Kulpa, J.. Phase measurement accuracy in noise waveform synthetic aperture radar. IEEE Transactions on Aerospace and Electronic Systems, 51, 4, Institute of Electrical and Electronics Engineers Inc., 2015, ISSN:0018-9251, DOI:10.1109/TAES.2015.140537, 3364 - 3373. SJR:1.727, ISI IF:1.757
61. **Marinov P.**, Kutiev I., Belehaki A., Tsagouri I.. Modeling the plasmasphere to topside ionosphere scale height ratio. J. Space Weather Space Clim.,, 5, A27, 2015, ISSN:2115-7251, DOI:DOI: 10.1051/swsc/2015028, A27p1 - A27p12. ISI IF:2.558
62. **Minchev, Z.**. Multiple Human Biometrics Fusion in Support of Cyberthreats Identification. Interantional Journal 'Cyberetics & Information Technologies', 15, 4, IICT-BAS, 2015, ISSN:1314-4081, DOI:10.1515/cait-2015-0090, 67 - 76. SJR:0.212
63. Mirronova, M., Ivanova, M., Naidenov, V., **Georgiev, I.**, Stary, J.. Advanced study of fiber-reinforced self-compacting concrete. AIP Conf. Proc., 1684, AIP, 2015, DOI:10.1063/1.4934293, 030009-1 - 030009-8. SJR:0.15
64. **Nedjalkov M.**, Weinbub J. , P. Ellinghaus, S. Selberherr. The Wigner Equation in the Presence of Electromagnetic Potentials. Journal of Computational Electronics, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-015-0732-y., ISI IF:1.52

65. **Nikolov, A., Dimov, D.**. 2D Video Stabilization for Industrial High-Speed Cameras. *Cybernetics and Information Technologies*, 15, 7, IICT-BAS, 2015, ISSN:1311-9702, 23 - 34. SJR:0.212
66. **Ostromsky, Tz., Dimov, I. T.**, Alexandrov, V., Zlatev, Z.. Preparing Input Data for Sensitivity Analysis of an Air Pollution Model by using High-Performance Supercomputers and Algorithms. *Computers & Mathematics with Applications*, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.07.020, 2773 - 2782. SJR:1.121, ISI IF:1.697
67. Popova, N., Shishkov, G., **Koprinkova-Hristova, P., Alexiev, K.**. 3D Visualization of Sound Fields Perceived by Acoustic Camera. *Cybernetics and Information Technologies, Special Issue on Information Fusion*, 15, 7, БАН, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0088, 45 - 57. SJR:0.17
68. Ribarics, R., Kenn, M., Karch, R., **Ilieva, N.**, Schreiner, W.. Geometry Dynamics of α -Helices in Different Class I Major Histocompatibility Complexes. *Journal of Immunology Research*, 2015, Article ID 173593, Hindawi Publishing Corporation, 2015, ISSN:2314-8861, DOI:10.1155/2015/173593, ISI IF:2.934
69. Ribeiro, P., **Stoykov, S.**. Forced periodic vibrations of cylindrical shells in laminated composites with curvilinear fibres. *Composite Structures*, 131, Elsevier, 2015, ISSN:0263-8223, DOI:10.1016/j.compstruct.2015.05.050, 462 - 478. ISI IF:3.5
70. Roeva O., **Fidanova S.**, Paprzycki M.. Population Size Influence on the Genetic and Ant Algorithms Performance in Case of Cultivation Process Modelling. *Recent Advances in Computational Optimization: Results of the Worshop on Computational Optimization WCO 2013, Studies in Computational Intelligence*, 580, Springer, 2015, ISBN:978-3-319-12630-2, ISSN:1860-949X, DOI:10.007/978-3-319-12631-9_7, 107 - 120. SJR:0.235
71. **Savov, S., Popchev, I.**. Robust Stability Analysis for a Perturbed Single-Area Power System Model. *Cybernetics and Information Technologies*, 15, 4, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0053, 42 - 49. SJR:0.17
72. **Savov, S., Popchev, I.**. Upper Bound for the Maximal Singular Value of a Squared Affine Parameter - Depent Matrix. *Comptes rendus de l'Academie bulgare des Sciences*, 68, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 367 - 374. SJR:0.21, ISI IF:0.284
73. Schreiner, W., Karch, R., Ribarics, R., Cibena, M., **Ilieva, N.**. Relative Movements of Domains in Large Molecules of the Immune System. *Journal of Immunology Research*, 2015, Article ID 210675, Hindawi Publishing Corporation, 2015, DOI:10.1155/2015/210675, ISI IF:2.934
74. **Sellier, J. M., Dimov, I. T.**. On the simulation of indistinguishable fermions in the many-body Wigner formalism. *Journal of Computational Physics*, 280, 2015, ISSN:0021-9991, 287 - 294. SJR:1.921, ISI IF:3.184
75. **Sellier, J. M., Dimov, I. T.**. Wigner functions, signed particles, and the harmonic oscillator. *Journal of Computational Electronics*, 14, 4(2015), 2015, ISSN:1569-8025, 907 - 915. ISI IF:1.52

76. **Sellier, J. M., Nedjalkov, M., Dimov, I. T.**. An introduction to applied quantum mechanics in the Wigner Monte Carlo formalism. Physics Reports, 577, 2015, ISSN:0370-1573, DOI:10.1016/j.physrep.2015.03.001, 1 - 34. ISI IF:22.91
77. **Sellier, J. M., Sviercoski, R. F., Dimov, I. T.**. On the Wigner Monte Carlo Method Coupled to Pseudopotential Models. Journal of Computational and Applied Mathematics, 293, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2015.01.033, 217 - 222. ISI IF:1.266
78. **Sgurev, V.**. An Essay on Real Imaginary and Complex Sets. Comptes rendus de l'Academie bulgare des Sciences, 68, 7, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 833 - 842. SJR:0.21, ISI IF:0.284
79. **Sgurev, V.**. Features of Equivalence in the Complex S-logic. Comptes rendus de l'Academie bulgare des Sciences, 68, 11, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1310-1331, 1357 - 1364. SJR:0.21, ISI IF:0.284
80. **Staykov, B.**. Solving multicriteria optimization problems with WebOptim software system. Cybernetics and Information Technologies, 15, 3, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1311-9702, DOI:10.1515/cait-2015-0049, 165 - 177. SJR:0.212
81. **Stoilov T., Stoilova K., Papageorgiou M., Papamichail I.**. Bi-Level Optimization in a Transport Network. Cybernetics and Information Technologies, 15, 5, Marin Drinov, 2015, ISSN:Print ISSN: 1311-9702 Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0023, 37 - 49. SJR:0.212
82. **Stoykov, S., Hofreither, C., Margenov, S.**. Isogeometric Analysis for Nonlinear Dynamics of Timoshenko Beams. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:978-3-319-15584-5, DOI:10.1007/978-3-319-15585-2_16, 138 - 146. SJR:0.34
83. **Stoykov, S., Litak, G., Manoach, E.**. Vibration energy harvesting by a Timoshenko beam model and piezoelectric transducer. The European Physical Journal Special Topics, 224, 14, Springer, 2015, ISSN:1951-6355, DOI:10.1140/epjst/e2015-02587-3, 2755 - 2770. ISI IF:1.399
84. **Stoykov, S., Manoach, E., Margenov, S.**. An efficient 3D numerical beam model based on cross sectional analysis and Ritz approximations. ZAMM - Journal of Applied Mathematics and Mechanics, Wiley, 2015, ISSN:1521-4001, DOI:10.1002/zamm.201400139, ISI IF:1.162
85. **Stoykov, S., Margenov, S.**. Scalability of Shooting Method for Nonlinear Dynamical Systems. Lecture Notes in Computer Science, 9374, Springer, 2015, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_45, 401 - 408. SJR:0.34
86. **Sviercoski, R., Efendiev, Y., Mohanty, B., Yuan, Y.**. Upscaling the coupled water flow and heat transfer in the subsurface – Comparison between numerical and field data. Application of Mathematics in Technical and Natural Sciences, 1684, American Institute of Physics, 2015, ISBN:978-0-7354-1331-3, ISSN:0094243X, DOI:10.1063/1.4934294, 030010 - 030010. SJR:0.152
87. Sviercoski, R., Popov, P., Margenov, S.. An analytical coarse grid operator applied to a multiscale multigrid method. Journal of Computational and Applied Mathematics, 287, 15, Elsevier, 2015, ISSN:0377-0427, DOI:10.1016/j.cam.2015.03.001, 207 - 219. SJR:1.104, ISI IF:1.266

88. **Tashev T., Monov V.**. A numerical study of the upper bound of the throughput of a crossbar switch utilizing MiMa-algorithm. Numerical Methods and Applications, 8962, Springer International Publishing, 2015, ISBN:978-3-319-15584-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2_33, 295 - 303. SJR:0.339
89. **Tchamova, A.**, Dezert, J., Konstantinova, P.. The Impact of the Quality Assessment of Optimal Assignment for Data Association in a Multitarget Tracking Context. Cybernetics and Information Technologies Journal, Special Issue on Control in Transportation Systems, 15, 7, БАН, 2015, ISSN:Print ISSN: 1311-9702; Online ISSN: 1314-4081, DOI:10.1515/cait-2015-0013, 88 - 98. SJR:0.212
90. **Terziyska, M.**. A Distributed Adaptive Neuro-Fuzzy Network for Chaotic Time Series Prediction. Cybernetics and Information Technologies, 15, 1, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1314-4081, DOI:10.1515/cait-2015-0003, 24 - 33. SJR:0.212
91. **Todorov, Y.**, Miteva, D., Dimov, K., Nacheva, I., Doneva, M., Metodieva, P., Tsvetkov, Tsv.. Prolongation of the storage and quality preservation of potato semi-finished foods by specific technological treatment. Bulgarian Journal of Agricultural Science, 21, 1, Agricultural Academy, Bulgaria, 2015, ISSN:1310-0351, 174 - 177. SJR:0.196
92. Wang L. , A. Brown, **Nedjalkov M.**, Alexander C, B. Cheng, C. Millar, A. Asenov:. Impact of Self-Heating on the Statistical Variability in Bulk and SOI FinFETs. IEEE Transactions on Electron Devices, 2015, ISSN:0018-9383, DOI:doi:10.1109/TED.2015.2436351, ISI IF:2.47
93. Wasielewska, K., Ganzha, M., Paprzycki, M., Bădică, C., Ivanovic, M., **Lirkov, I.**. Semantic Technologies in a Decision Support System. Application of Mathematics in Technical and Natural Sciences, 1684, American Institute of Physics, 2015, ISSN:0094-243X, DOI:10.1063/1.4934301, 060002-1 - 060002-12. SJR:0.152
94. Weinbub J., Ellinghaus P., **Nedjalkov M.**. Domain Decomposition Strategies for the Two-Dimensional Wigner Monte Carlo Method. Journal of Computational Electronics, 2015, ISSN:1569-8025, DOI:doi:10.1007/s10825-015-0730-0, ISI IF:1.52
95. Zlatev, Z., **Georgiev, K.**, **Dimov, I.**. Selecting Explicit Runge-Kutta Methods with Improved Stability Properties. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISSN:978-3-319-26519-3; Online ISBN978-3-319-26520-9, DOI:10.1007/978-3-319-26520-9_46, 409 - 416. SJR:0.34

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- **Реферира се:** Не
- **Година на публикуване:** 2015 ÷ 2015

1. Aleksov, D., Paskova, M., Najdenov, N., **Marinov, P.**. Spline intersection improvement. , Fastumprint 2015, 2015, ISBN:978-619-72-73-12-5, 29 - 39
2. **Atanasova, T.**. Smart buildings, fog computing, IoT. First International Scientific Conference "Telecommunications, Informatics, Energy and Management TIEM'15", II, Висше училище по телекомуникации и пощи, 2015, ISSN:2367-8437, 110 - 113
3. Avdzheva, A, **Balabanov, T**, Evtimov, G., Kirova, D., Kostadinov, H., Tsachev, Ts., Zhelezova, S., Zlateva, N.. Optimal Cutting Problem. Problems & final report of 113-th European Study Group with Industry, 14-18.09.2015, FASTUMPRINT, Sofia, Bulgaria, 2015, ISBN:978-619-72-23-12-5, 49 - 61
4. **Balabanov, T.**. Distributed evolutional model for music composition by human-computer interaction. Proceedings of International Scientific Conference UniTech 2015, Gabrovo, 20-21.11.2015, 2, University publishing house V. Aprilov - Gabrovo, 2015, ISSN:1313-230X, 389 - 392
5. Bodurov, V., **Dimov, D.**, Evtimov, G., **Georgiev, I.**, **Harizanov, S.**, Nikolov, G., Pirinski, V.. The 2D/3D Best-Fit Problem. ESGI-113, FASTUMPRINT, Sofia,, 2015, ISBN:978-619-72-23-12-5, 62 - 73
6. **Borissova, D.**. Single- and Multicriteria Models and Algorithms for Optimal Design, Planning and Management of Engineering Systems. Abstracts of Dissertations of IICT-BAS, 4, 2015, ISSN:1314-6351, 1 - 60
7. **Boyanov K.**, Antonov V., Kisimov V.. Using of Social Networks for Education. International Journal of Research in Business Studies and management, 2, 4, 2015, ISSN:2394-5923, 99 - 108
8. **Boyanov, L.**, **Minchev, Z.**. Virtual Assisting Agents & Internet of Things. KSI Journal of Knowledge Society, 1, Knowledge Society Institute, 2015, ISSN:2367-7198, 3 - 5

9. **Chyrka, Iu.** Fast Direction-of-Arrival Estimation for Single Source. International Conference on Telecommunications and Remote Sensing, ICTRS-2015, 17–18 September 2015, Rhodes, Greece, 2015, ISBN:978-989-758-152-6, 54 - 58
10. **Dobrinkova, N., Terzieva, V., Todorova, K.** Knowledge and Data Management in “Civil Protection for ALL”. Proceedings of Int Conference, BdKCSE – Big Data, Knowledge and Control Systems Engineering, Union of Automatics and Informatics, Bulgaria, 2015, ISSN:2367-6450, 149 - 156
11. **Doukovska, L.**, Atanassova, V., S hahpazov, G., Čapkovič, F.. InterCriteria Analysis Applied to Various EU Enterprises. Proc. of the International Symposium on Business Modeling and Software Design – BMSD’15, SCITEPRESS - Science and Technology Publications, 2015, ISBN:979-989-758-111, 284 - 291
12. **Doukovska, L., Karastoyanov, D., Stoimenov, N., Kalaykov, I..** InterCriteria Decision Making Approach for Iron Powder Briquetting. Proc. of the International Symposium on Business Modeling and Software Design – BMSD’15, SCITEPRESS - Science and Technology Publications, 2015, ISBN:979-989-758-111, 292 - 296
13. Futekova, N., **Monov, V..** Preliminary assessment of the effectiveness of the implementation process of ERP-systems in Bulgarian SMEs. Economic Alternatives, 2, University of National and World Economy Publishing Complex, 2015, ISSN:1312 – 7462, 62 - 76
14. Futekova, N., **Monov, V..** Statistical study on the need for a preliminary assessment of the effectiveness of the implementation process of ERP-systems in Bulgarian SMEs. Economic Alternatives, 3, University of National and World Economy Publishing Complex, 2015, ISSN:ISSN 1312 – 7462, 46 - 63
15. **Guliashki, V., Kirilov, L...** A Promethee-based Approach to Multi-Criteria Flexible Job Shop Scheduling Problem. Proceedings of Papers of the L International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST'2015, (Editor: Assoc. Prof. Kalin Dimitrov, PhD), June 24 – 26, 2015, Sofia, Bulgaria, 2015, ISBN:978-619-167-182-3, 113 - 116
16. **Gyoshev S., Karastoyanov D., Penchev T..** Experimental study of iron metal powder compacting by controlled impact. ICSD 2015 : 17th International Conference on Soil Dynamics, 2015, ISSN:eISSN: 1307-6892, 114 - 117
17. **Gyoshev S., Karastoyanov D., Penchev T..** Study the Influence of the Type of Cast Iron Chips on the Quality of Briquettes Obtained with Controlled Impact. 17th International Conference on Soil Dynamics, 2015, ISSN:eISSN: 1307-6892, 118 - 121
18. **Gyoshev S., Karastoyanov D..** Експериментално изследване на процеса „упътняване на железен прах“. XXIV МHTK – АДП 2015 , Созопол, 26-28 юни, 2015, ISSN:1310-3946, 140 - 147
19. **Gyoshev S., Penchev T., Bodurov P..** New methods and means for high resistive nailing.. Automation and Mechatronics'15 RAM 2015, November 5, 2015, ISSN:1314-4634, 74 - 77

20. **Gyoshev S., Penchev T., Karastoyanov D.**, Bodurov P.. Управляван удар: теория. Intern. Science Conference 70 Years FIT, 11-13 September 2015, Sozopol, Bulgaria, 2015, ISBN:987-619-167-178-6, 145 - 150
21. **Gyoshev S., Penchev T., Karastoyanov D.**. Briquetting of aluminum alloy chips with controlled impact. 3rd International Conference on Sustainable Development, Rome, Italy, 6 Jun, 2015, 2015, ISBN:978-12-200-01-199, ISSN:ISSN 2239-5938 eISSN 2239-6101, 42 - 47
22. **Gyoshev S., Penchev T., Karastoyanov D.**. High speed briquetting of metal chips using rocket engine. 19th Int. Conf. on Circuits, Systems, Communications and Computers - INASE, 15.07. – 21.07., Zakynthos, Greece, 2015, ISBN:978-1-61804-321-4, ISSN:1790-5117, 172 - 177
23. **Gyoshev S., Penchev T.**. Advanced computing for high speed briquetting of metal chips and powders.. International Conference Robotics, Automation and Mechatronics'15 RAM 2015 , November 5, 2015, ISSN:1314-4634, 44 - 49
24. **Gyoshev S.**. High speed briquetting of metal chips and powders.. International Conference Robotics, Automation and Mechatronics'15 RAM 2015, November 5, 2015, ISSN:1314-4634, 55 - 59
25. Ivanov V., Stoimenov N., Karastoyanov D., Dimitrov L., Georgieva V., Klochkov L.. Експериментално изследване температурата при опресоване на dc кондензаторни секции. Част 1. Анализ на технологичния процес и разработване на методика.. International Conference “Robotics, Automation And Mechatronics” RAM 2015 , November 5, Sofia, 2015, ISSN:1314-4634, 13 - 18
26. Ivanov V., T.Balabanov. Device for improving the parameters of intersections regulated by traffic lights. Proceeding of Int. Conference “Automatics and Informatics” , 04-07.10 2015, Sofia, 2015, ISSN:1313-1869, 189 - 191
27. Ivanov V.. Use of the fine grain FPGA structure to generate the UART clock. Proceeding of Int. Conference “Automatics and Informatics” , 04-07.10 2015, Sofia, 2015, ISSN:1313-1869, 181 - 185
28. Jakimovska K., Vasilev V., Gyoshev S., Stoimenov N., Karastoyanov D.. Train control system for railway vehicles running at operational speed. 22nd International Scientific Conference on Achievements in Mechanical and Materials Engineering (AMME'2015), Zakopane (Poland), 06-09/12/, 2015, ISBN:978-83-63553-39-5, 38 - 43
29. Jovanovic, M., Ratchev, V., Tagarev, T., Petkov, V., Todorova, A., Elman, P.. Case Study on South-Eastern Europe. , 2015, DOI:10.11610/evocs.d82
30. Kandeva M., Ivanova B., Karastoyanov D., Venzl E., Asenova E.. Influence of the Metal-Plating Aditive “VALENA” on the Wear of the Spheroidal Graphite Cast Iron Micro Alloyed by Sn.. 14th International Conference on Tribology SERBIATRIB’15, 2015, ISBN:978-86-7083-857-4, 236 - 242
31. Karastoyanov D., Ivanova D., Stoimenov N.. Technology for Production of High Temperature Materials and Alloys Including nano Elements. International Conference on Circuits, Systems, Communications and Computer, CSCC'15, 15.07. – 21.07., Zakynthos, Greece, 2015, ISSN:1790-5117, 177 - 181

32. **Karastoyanov, D., Doukovska, L., Gyoshev, S.**, Kalaykov, I.. InterCriteria Decision Making Approach for Metal Chips Briquetting. Proc. of the International Symposium on Business Modeling and Software Design – BMSD'15, SCITEPRESS - Science and Technology Publications, 2015, ISBN:979-989-758-111, 297 - 301
33. **Kirilov, L., Guliashki, V.**. Generating Feasible Schedules for Flexible Job Shop Problems. Proceedings of Papers of the International Conference "Automatics and Informatics'2015", 04.-07. October 2015, Sofia, Bulgaria, 2015, ISSN:1313-1850, CD-ISSN: 1313-1869, 127 - 130
34. Kirov B, Asenovski S, **Bachvarov D, Boneva A**, Grushin V, Georgieva K., Klimov S. LANGMUIR PROBE MEASUREMENTS ABOARD THE INTERNATIONAL SPACE STATION. ТРУДЫ XIX ВСЕРОССИЙСКАЯ ЕЖЕГОДНАЯ КОНФЕРЕНЦИЯ ПО ФИЗИКЕ СОЛНЦА: СОЛНЕЧНАЯ И СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА, ГАО РАН, Санкт-Петербург, 2015, ISSN:0552-5829, 205 - 208
35. **Kolchakov, K., Monov, V.**. Comparative study of algorithms for traffic management in a crossbar commutator. International conference Robotics, Automation and Mechatronics, RAM 2015, Prof. Marin Drinov Academic Publishing House, 2015, ISSN:1314-4634
36. **Kolev V.**, Noncheva V., Valkov V., Ilieva E., Dobreva M.. Development of mathematical algorithm for direct ascription of missing values in survey research data. , FASTUMPRINT, Sofia, Bulgaria, 2015, ISBN:978-619-72-23-12-5, 40 - 49
37. **Kolev V.**. Big Data in Astroinformatics - Compression of Scanned Astronomical Photographic Plates. Proceedings of Int Conference, BdKCSE – Big Data, Knowledge and Control Systems Engineering, Union of of Automatics and Informatics, Bulgaria, 2015, 65 - 73
38. Kotev V., **Boiadzhiev T.**, Boiadzhiev G., Delchev K., Zagurski K.. Accuracy Improvement by New Sensor System for Automatic Bone Drilling in the Orthopedic Surgery. Annual of Sofia University “St. Kliment Ohridski”, Faculty of Mathematics and Informatics, 102, 2015, 271 - 279
39. **Kudriashov, V.V.**. Non-stationary Random Wiener Signal Detection with Multistatic Acoustic System. Proceedings of Fourth International Conference on Telecommunications and Remote Sensing; 17-18 September 2015; Rhodes, Greece, 2015, ISBN:978-989-758-152-6, 49 - 53
40. Lyubenova, M, **Pavlov, Yu**, Chikalanov, A, Spassov, K. A Decision Making Support Model for a Smart Forest Ecological Management System,. Proceedings of Int Conference, BdKCSE – Big Data, Knowledge and Control Systems Engineering, Union of of Automatics and Informatics, Bulgaria, 2015, ISSN:2367-6450, 119 - 131
41. Mavrov, D., **Radeva, I.**, Atanassov, K., **Doukovska, L.**, Kalaykov, I.. InterCriteria Software Design: Graphic Interpretation within the Intuitionistic Fuzzy Triangle. Proc. of the International Symposium on Business Modeling and Software Design – BMSD'15, Milan, Italy, SCITEPRESS - Science and Technology Publications, 2015, ISBN:978-989-758-111-3, 279 - 283
42. **Minchev, Z.**, Dukov, G., Ivanova, T., Mihaylov, K., Boyadzhiev, D., Mateev, P., Bojkova, M., Daskalova, N.. Cyber Intelligence Decision Support in the Era of Big Data. ESGI 113 Problems & Final Reports Book, FASTUMPRINT, 2015, ISBN:978-619-72-23-12-5, DOI:10.13140/RG.2.1.2981.5129, 92, 85 - 92

43. **Ouzounov A.** Mean-Delta Features for Telephone Speech Endpoint Detection. Proceedings of the International Conference "Automatics & Informatics", 4 - 7 October 2015, Sofia, 2015, ISSN:1313-1850, 185 - 188
44. **Pavlov, Y., Terzieva, V., Kademova-Katzarova, P.** Utility and Optimal Allocation of Financial and Material Resources in a Small Factory: Preferences Based Approach. Proceedings of International Conference on Application of Information and Communication Technology and Statistics in Economy and Education (ICAICTSEE-2014), 4, Sofia, Bulgaria, 2015, ISSN:2367-7635, 496 - 503
45. **Pavlov, Y..** Preferences and Prescriptive Utility Presentation: A Stochastic Approximation Approach. Proceedings of International Conference on Application of Information and Communication Technology and Statistics in Economy and Education (ICAICTSEE-2014), 4, Sofia, Bulgaria, 2015, ISSN:2367-7635, 569 - 576
46. **Penchev T., Altaparmakov I., Stoimenov N..** Controlled Impact: Experimental Results in plastic deformation. XXVIII International Scientific Conference of the Faculty of Industrial Technology of TU-Sofia – FIT'2015, Sozopol, Bulgaria, 11-13 September, 2015, ISBN:978-619-167-178-6, 151 - 156
47. **Ratchev, V., Tagarev, T., Minchev, Z..** Romania: Capabilities, Organisations, Policies, and Legislation in Crisis Management and Disaster Response. IT4Sec Reports, 121, Procon Ltd., 2015, ISSN:1314-5614, DOI:10.11610/it4sec.0121
48. Ruzic J., Jakimovska K., **Gyoshev S., Stoimenov N., Karastoyanov D..** Influence of mechanical alloying time on particle size of copper matrix composite. 22nd International Scientific Conference on Achievements in Mechanical and Materials Engineering (AMME'2015), 2015, ISBN:978-83-63553-39-5, 32 - 37
49. **Sgurev, V., Drangajov, St..** Optimal Control of the Flow of Risk on Networks. Proc. of the International Conference AUTOMATICS AND INFORMATICS'15, JOHN ATANASOFF SOCIETY OF AUTOMATICS AND INFORMATICS, 2015, ISSN:1313-1869, 119 - 123
50. **Staykova, K..** Linguistic and Semantic Resources for Natural Language Generation and Annotation of Bulgarian Texts. Abstracts of Dissertations - IICT BAS, 2/2015, 2015, ISSN:1314-6351, 3 - 17
51. **Stoimenov N., Ivanov V., Dimitrov L., Karastoyanov D., Georgieva V., Klochkov L..** Експериментално изследване температурата при опресоване на dc кондензаторни секции. Част 2. Реализиране изследването на температурата при опресоване на кондензаторни секции. International Conference “Robotics, Automation And Mechatronics” RAM 2015 , November 5, Sofia, 2015, ISSN:1314-4634, 19 - 24
52. **Stoimenov N., Ivanov V., Dimitrov L., Karastoyanov D., Georgieva V., Klochkov L..** Експериментално изследване температурата при опресоване на dc кондензаторни секции. Част 3. Графично представяне на отчетените температури, съдържащи се в термалните изображения. International Conference “Robotics, Automation And Mechatronics” RAM 2015 , November 5, Sofia, 2015, ISSN:1314-4634, 25 - 29

53. **Stoimenov N., Karastoyanov D.**. Study of Movement And Interaction of Different Shape Grinding Bodies. XXIV МНТК Автоматизация на дискретното производство „АДП – 2015” 18-21 Юни, Созопол, 2015, ISSN:1310-3946, 148 - 153
54. **Stoimenov, N.**. Simulation of energy efficiency milling processes.. International Conference “Robotics, Automation And Mechatronics” RAM 2015 , November 5, Sofia, 2015, ISSN:1314-4634, 50 - 54
55. **Terzieva, V., Todorova, K., Kademova-Katzarov, P.**. Big Data for Personalization – Opportunities, Applications. Proceedings of Int Conference, BdKCSE – Big Data, Knowledge and Control Systems Engineering, Union of Automatics and Informatics, Bulgaria, 2015, ISSN:2367-6450, 89 - 99
56. **Toshev, A.**. Еволюционни изчислителни алгоритми. Series B. Natural Sciences and the Humanities, XVII, Scientific Works of the Union of Scientists Plovdiv, 2015, ISSN:1311-9192, 147 - 152
57. **Yosifova V..** Study of the energy efficiency for buildings and facilities. Insulation materials and detection of construction defects with thermal camera. International Conference RAM 2015, 2015, ISSN:1314-4634, 37 - 43
58. Čapkovič, F., **Doukovska, L.**, Atanassova, V.. Automated Control Synthesis for Discrete Event Systems. Proc. of the Conference Big Data, Knowledge and Control Systems Engineering – BdKCSE'15, 2015, ISSN:2367-6450, 139 - 148
59. **Атанасова, Т..** Анализ и Оптимизация на Бизнес Процеси за Производствен Мениджмънт. First International Scientific Conference “Telecommunications, Informatics, Energy and Management TIEM’15”, II, Висше училище по телекомуникации и пощи, 2015, ISSN:2367-8437, 126 - 129
60. **Балабанов, А., Слободянюк, И..** Применение метода резольвенты в задаче Н-бесконечность оптимизации. Интеллектуальные системы, управление и мехатроника – 2015, г. Севастополь, 13-15 мая 2015, Изд-во СевНТУ, 2015, 53 - 56
61. **Балабанов, А., Солдатенко, Е..** Применение процедур метода резольвенты при проверке устойчивости матрицы. Интеллектуальные системы, управление и мехатроника – 2015, г. Севастополь, 13-15 мая 2015, Изд-во СевНТУ, 2015, 70 - 74
62. **Балабанов, А..** Применение метода резольвенты при поиске решений некоторых частных видов матричных алгебраических уравнений Риккати. Интеллектуальные системы, управление и мехатроника – 2015, г. Севастополь, 13-15 мая 2015, Изд-во СевНТУ, 2015, 62 - 69
63. **Балабанов, Т., Занкински, И., Шуманов, Б..** Оптимизация на статистически модели с еволюция на разликите и Монте-Карло базирана оценъчна функция. Сборник с доклади от XXII Международен симпозиум Управление на енергийни, индустриски и екологични системи, 14-15.05.2015, Федрация на Научно-техническите съюзи, Съюз по автоматика и информатика, 2015, ISSN:1313-2237, 87 - 90
64. **Балабанов, Т..** Избягване на локални оптимуми при евристични популационни алгоритми в разпределена среда. Сборник с доклади от XXII Международен симпозиум Управление на енергийни, индустриски и екологични системи, 14-15.05.2015, Федрация на Научно-техническите съюзи, Съюз по автоматика и информатика, 2015, ISSN:1313-2237, 83 - 86

65. **Бонева А., Илчева З., Бъчваров Д., Ангелов С., Барух Н., Исаев Г.**. Използване на магистрала “1-wire bus” като транспортен слой при реализация на комуникационни протоколи за интелигентни устройства. Proceedings: International Conference “ROBOTICS, AUTOMATION AND MECHATRONICS ’15” (RAM 2015), Проф. Марин Дринов, 2015, ISSN:1314 - 4634, 5 - 12
66. **Боянов К.** РОЛЯТА НА БАН ЗА РАЗВИТИЕТО НА ИЗСЛЕДВАНИЯ И ПРОИЗВОДСТВИ НА КОМПЮТЪРНИ И КОМУНИКАЦИОННИ СИСТЕМИ. Списание на БАН, 2, 2015, ISSN:0007-3989, 48 - 54
67. **Бъчваров Д, Илчева Зл., Бонева А., Ангелов С., Барух Н., Исаев Г.**. RS485+: Разширение на стандартната магистрала RS485 чрез включване в топологичната ѝ структура на групи от жични и безжични (радио) модули. Proceedings: International Conference “ROBOTICS, AUTOMATION AND MECHATRONICS ’15”(RAM 2015), Проф. Марин Дринов, 2015, ISSN:ISSN 1314 -4634, 30 - 36
68. Георгиева, П., **Попчев, И.**. Ефективно разпределение на финансовите ресурси: два подхода от софт компютинг.. Сборник с доклади от юбилейната научно-практическа конференция с международно участие “Времена на несигурност и рискове: възможности и перспективи за развитие”, 1, Университетско издателство “П. Хилендарски”, Пловдив, 2015, ISBN:978-619-202-036-1, 293 - 300
69. Димитрова, Л., Късовски, В., Цветкова, И., Михайлова, С., Иванов, Н., **Глухчев, Г.**, Найденски, Х.. Бактерициден ефект на електрохимически активирана вода върху аеробна бактериална популация на биошлам. Екологично инженерство и опазване на околната среда, 4, 2015, ISSN:1311-8668
70. Дойчев, Е., Граматикова, К., Стоянова-Дойчева, А., **Попчев, И.**. Образователен портал DeLC2.0.. Научна конференция с международно участие "Хоризонти в развитието на човешките ресурси и знанието", 2, Бургас, 2015, ISBN:978-619-7126-11-2, 411 - 418
71. **Иванов Вл., Стоянов П.** Следене и управление на пътен градски трафик. Сборник с доклади от XXII Международен симпозиум Управление на енергийни, индустриски и екологични системи,14-15 май 2015г. Баня, 2015, ISSN:1313-2237, 103 - 107
72. **Иванов, Вл.**. Разработване на програмни средства за моделиране на многофункционални електронни схеми.. Автореферати на дисертации на Института по информационни и комуникационни технологии при Българската академия на науките, 1/2015, 2015, ISSN:e-1314-6351, 23 - 56
73. **Иванова, Йоана.** Симулационно моделиране на кибератака срещу управлялена структура. Военен журнал, 4, "Военно издателство" ЕООД, 2015, ISSN:0861-7392
74. **Колчаков, К., Монов, В..** Сравнителен анализ на клас алгоритми за управление на трафик в кросбар комутатор. Международна конференция "Автоматика и Информатика'15", 04-07.10.2015, София, България, Федерация на Научно-техническите съюзи, Съюз по автоматика и информатика, 2015, ISSN:1313 – 1869, 23 - 26
75. **Кънчева, Ст..** Моделиране на явлението морфологична многозначност. Изздание на Факултета по славянски филологии, 1, Парадигма, 2015, ISSN:2367-8119, 12 - 22

76. Пиринчев Д., Бижев Б., Аршинков С., **Иванов Д.** Безжичен комуникационен канал за предаване на информация в реално време от специализирано мобилно терминално устройство към сървър за събиране и обработка на данни чрез смартфон. International Conference Robotics, Automation and Mechatronics'15 RAM 2015, 2015, ISSN:1314-4634, 60 - 67
77. Попова, Н., Шишков, Г., **Копринкова-Христова, П.**. Кльстеризация на динамични звукови полета чрез невро-размит подход. Сборник доклади на XIII Национална Младежка Научно-практическа Конференция 2015, 27–28 април, София, Федерация на научно-техническите съюзи в България, 2015, ISSN:1314-8931, 89 - 94
78. **Popchev, И.**, Георгиева, М.. Наукометричен анализ в областта на BIGDATA.. Научна конференция с международно участие "Хоризонти в развитието на човешките ресурси и знанието"., 2, Бургас, 2015, ISBN:978-619-7126-11-2, 469 - 476
79. **Popchev, И.**. Реалният свят да влезе в аудиторията.. Сборник с доклади от юбилейната научно-практическа конференция с международно участие "Времена на несигурност и рискове: възможности и перспективи за развитие", Университетско издателство "П. Хилендарски", Пловдив, 2015, ISBN:978-619-202-036-1, 13 - 23
80. **Popchev, Иван Петков.** Инфраструктури за електронно обучение. Техносфера, 4(30), Marin Drinov, 2015, ISSN:1313-3861, 13 - 24
81. Стоянов, С., Орозова, Д., **Popchev, И.**, Дойчев, Е.. Виртуално пространство за продължаващо обучение.. Научна конференция с международно участие "Хоризонти в развитието на човешките ресурси и знанието"., 2, Бургас, 2015, ISBN:978-619-7126-11-2, 419 - 425
82. **Terziева В., Кадемова-Кацарова П.**. ИКТ в преподавателската практика в българското училище. сборник доклади от международна конференция "Автоматика и Информатика'2015", Съюз по Автоматика и Информатика, 2015, ISSN:1313- 1850, 209 - 212
83. Чаръкчиев, Д., **Angelova, Г.**, **Бойчева, С.**, Събев, Ж., Marinova, П., Манева, Л., Величков, А.. Анализ на разпространението на захарния диабет и неговите усложнения в децата и юношеска възраст. Сборник трудове на XVI-та национална конференция за ОПЛ и педиатри с международно участие, 2015

Научни монографии в България - излезли от печат

- **Звено:** (ИИКТ) Институт по информационни и комуникационни технологии
 - **Тип на публикацията:** Научна монография
 - **Обхват на изданието:** Национален в България
 - **Година на публикуване:** 2015 ÷ 2015
1. **Borissova, D.**. NIGHT VISION DEVICES - Modeling and Optimal Design. , Prof. Marin Drinov Publishing House, 2015, ISBN:ISBN 978-954-322-829, 195
 2. Nikolova, S., Toneva, D., **Georgiev, I.**. A case of skeletal dysplasia in bone remains from a contemporary male individual. Acta Morphologica et Anthropologica, 22, Prof. Marin Drinov Publishing House of Bulgarian Academy of Sciences, 2015, ISBN:0861-0509, 11

3. **Борисова, Д.**. Уреди за нощно виждане: Моделиране и оптимално проектиране. , ИЗДАТЕЛСТВО НА БАН „Проф. МАРИН ДРИНОВ“, 2015, ISBN:978-954-322-821-8, 202
4. **Монов, В.**, Футекова, Н.. ERP системи: Ефективност на внедрителския процес. Библиотека "Научно знание", Институт общество на знанието, 2015, ISBN:978-619-7128-06-2, 209

E03/5.1:
Научни монографии в чужбина - излезли от печат

- **Звено: (ИИКТ) Институт по информационни и комуникационни технологии**
- **Тип на публикацията:** Научна монография
- **Обхват на изданието:**
Национален - другаде
Международен
- **Година на публикуване:** 2015 ÷ 2015

1. **Bantutov, E.**. Night Vision Devices? It is simple!. , LAP LAMBERT Academic Publishing, 2015, ISBN:978-3-659-63536-6, 124

E03/7.1:

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

- **Звено: (ИИКТ) Институт по информационни и комуникационни технологии**
- **Тип на публикацията:**
Тематичен сборник
Сборник трудове от научен форум
Брой от списание
Енциклопедия
Речник
Справочник
- **Година на публикуване:** 2015 - 2015

№	вид на продукта	Категория	Наименование	Характеристики	Участници	Забележка
1	Сборник трудове от научен форум	Международно	Large-Scale Scientific Computing	Издателство: Springer International Publishing AG Switzerland, ISBN: 978-3-319-26519-3, ISSN: 0302-9743	Лирков, И. - Редактор Маргенов, С. - Редактор Waśniewski, J. - Редактор	
2	Сборник	Международно	Numerical	Издателство:	Димов, И. -	

Годишен отчет на ИИКТ-БАН за 2015 г. - Публикации

	трудове от научен форум		Methods and Applications	Springer International Publishing AG Switzerland, ISBN: 978-3-319-15584-5, ISSN: 0302-9743	Редактор Фиданова, С. - Редактор Лирков, И. - Редактор	
3	Брой от списание	Международно	Special Issue on Information Fusion, №7, 2015	Издателство: Cybernetics and Information Technologies, IICT-BAS, ISSN: 1311-9702	Алексиев, К. - Гост-редактор Агре, Г. - Гост-редактор	
4	Брой от списание	Международно	Special Issue on Control in Transportation Systems, №5, 2015	Издателство: Cybernetics and Information Technologies, IICT-BAS, ISSN: 1311-9702	Стоилов, Т. - Гост-редактор	
5	Тематичен сборник	Международно	Recent Advances in Computational Optimization, Results of the Workshop on Computational Optimization WCO 2013	Издателство: Springer, ISBN: 978-3-319-12630-2	Фиданова, С. - Гост-редактор	
6	Брой от списание	Международно	"Organizing for Cybersecurity: National Case Studies", Information & Security: An International Journal, vol. 32	Издателство: Procon, ISSN: 0861-5160	Costigan, S. - Редактор Тагарев, Т. - Редактор	темата на тома е "Organizing for Cybersecurity: National Case Studies"
7	Брой от списание	Международно	Numerical Methods for Scientific Computations and Advanced Applications	Издателство: Elsevier, ISSN: 0898-1221	Георгиев, К. - Гост-редактор Iliev, O. - Гост-редактор Minev, P. - Гост-редактор	Computers & Mathematics with Applications Volume 70, Issue 11, December 2015, Pages 2619–2620
8	Сборник	Международно	Recent Advances	Издателство:	Ангелова, Г.	Сборникът е

Годишен отчет на ИИКТ-БАН за 2015 г. - Публикации

	трудове от научен форум		in Natural Language Processing, Proceedings	Incoma Ltd, Shoumen, Bulgaria, Hissar, Bulgaria, ISSN: 1313-8502	- Редактор	публично достъпен в Антологията на Асоциацията по компютърна лингвистика, на адрес http://aclweb.org/anthology/R/R15/ Индексира се в DBLP
9	Сборник трудове от научен форум	Международно	Proceedings of International Conference "Big Data, Knowledge and Control Systems Engineering"	Издателство: Съюз по Автоматика и Информатика (САИ), София, България, ISBN: 2367-6450	Andreev, P. - Редактор	
10	Тематичен сборник	Международно	Artificial Neural Networks - Methods and Applications in Bio-/Neuroinformatics	Издателство: Book in Springer Series in Bio-/Neuroinformatics, Vol.4, 2015, ISBN: 978-3-319-09903-3, ISSN: 193-9349	Копринкова-Христова, П. - Редактор Mladenov, V. - Редактор Kasabov, N. - Редактор	

E03/6.1:
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 - Учебно помагало за ученици
- **Година на публикуване:** 2015 ÷ 2015

1. Иванова, Кр., **Атанасова, Т.**. Линейно оптимиране. Издателски комплекс-Висше училище по телекомуникации и пощи, 2015, ISBN:978-954-9332-93-3, 104