

ПРИЛОЖЕНИЕ 1. СПИСЪК НА ПУБЛИКАЦИИ НА ИИКТ-БАН ЗА 2013 г.

1. Списъци на излезлите от печат през 2013 г. от всеки вид публикации (273)

1.1. Списък на публикациите, които са реферирани и индексирани в световната система за реферирание, индексирание и оценяване (в световни вторични литературни източници) 170)

1. Ahmed, S., M. Nedjalkov, D. Vasileska. Comparative Study of Various Self-Consistent Event Biasing Schemes for Monte Carlo Simulations of Nanoscale MOSFETs. In: *Theory and Applications of Monte Carlo Simulations*, V. Chan (ed.). Intech Open Access Publisher, 2013, 109 – 133, ISBN: 978-953-51-1012-5. Doi: 10.5772/53113
2. Aleksandrov L., Djidjev H., Maheshwari A., Sack J.-R. An Approximation Algorithm for Computing Shortest Paths in Weighted 3-d Domains. *Discrete and Computational Geometry* 50 (1), 2013, 124-184, ISSN: 0179-5376.
3. Alexiev, K., I. Nikolova, An Algorithm for Error Reducing in IMU, *2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, 19-21 June 2013, Albena, Bulgaria, IEEE Xplore©, 1-6ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577663
4. Алексиев, К. Инерциални сензори и инерциални навигационни системи, *Автоматика и Информатика*, бр.1, 2013, 45-50, ISSN 0861-7562
5. Amoroso, S., L. Gerrer, A. Asenov, J. M. Sellier, I. T. Dimov, M. Nedjalkov, S. Selberherr. Quantum Insights in Gate Oxide Charge-Trapping Dynamics in Nanoscale MOSFETs. In: *Proceedings of the 18th International Conference on Simulation of Semiconductor Processes and Devices*, 2013, 25 – 28, ISBN: 978-1-4673-5733-3.
6. Andreev, A., M. Racheva. Nonconforming Rectangular Morley Finite Elements. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) In: *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 158 – 165, ISSN: 0302-9743
7. Angelova, G. Automatic information extraction from patient records in Bulgarian Language. Keynote Lecture at CompSysTech 2013, Ruse, In: *Proceedings of CompSysTech-2013*, 11-14, ACM New York, NY, USA ©2013, ISBN: 978-1-4503-2021-4.
8. Angelova, D., L. Mihaylova, N. Petrov, A. Gning, A Convolution Particle Filtering Approach for Tracking Elliptical Extended Objects, In: *Proceedings of the International Conf. on Information Fusion*, Istanbul, Turkey, 2013, 1542-1549, IEEE 2013 ISBN 978-605-86311-1-3.
9. Ardis M., S. Bohner, L. Camilloni, D. Vallespir, S. Ilieva. Using GSWE2009 in the Creation and Modification of Graduate Software Engineering Programs and Related Curricula, In: *Proceedings of CSEE&T 2013*, San Francisco, CA, USA, 19-21 May 2013, IEE Explore, 109 – 118, ISSN 1093-0175.
10. Atanassova V., S. Fidanova, I. Popchev, P. Chountas. Chapter 5: Generalized Nets, ACO Algorithms, and Genetic Algorithms, In: (Sabelfeld, K., I. Dimov, Eds.), *Monte Carlo Methods and Applications, Proceedings of the 8th IMACS Seminar on Monte Carlo Methods*, Borovets, Bulgaria De Gruyter, 39-46, 2013, eBook ISBN: 9783110293586.

11. Atanassova V. From fuzzy to intuitionistic fuzzy: Easy and lazy, *Notes on Intuitionistic Fuzzy Sets*, vol. 19, №3, 51–55, 2013, ISSN 1310-4926.
12. Atanassova, L., On the intuitionistic fuzzy form of the classical implication $(A \rightarrow B) \vee (B \rightarrow A)$, *Notes on Intuitionistic Fuzzy Sets*, Vol. 19, 2013, No 4, 1-4, ISSN 1310-4926.
13. Atanassova, L., On the intuitionistic fuzzy implications $\rightarrow'_{@}$ and $\rightarrow''_{@}$, *New Trends in Fuzzy Sets, Intuitionistic Fuzzy Sets, Generalized Nets and Related Topics. Vol. 1: Foundations*, SRI, Polish Academy of Sciences, 2013, 9-15, ISBN 83-894-7546-4
14. Atanassova, L., On the modal form of the intuitionistic fuzzy implications $\rightarrow_{@}$ and $\neg_{@}$, *Issues in Intuitionistic Fuzzy Sets and Generalized Nets*, Vol. 10, 2013, 5-11, ISBN 978-83-61551-08-9.
15. Atanassov, E. M. Durchova, Generation of the Scrambled Halton Sequence Using Accelerators, In: *Proceedings of the 36th International Convention MIPRO 2013*, IEEE, 197-201, ISSN: 1847-3946.
16. Atanassov, E., T. Gurov, A. Karaivanova, Message Oriented Framework with Low Overhead for Efficient High-Performance Monte Carlo Simulations, *Proceedings of the 36th IEEE International Convention MIPRO 2013*, 2013, 189-191, ISSN: 1847-3946.
17. Atanassov, E., S. Ivanovska, Computation and Analysis of Sobol Coefficients for Air Pollution Concentrations over the Territory of Bulgaria, In: *Proceedings of the 36th IEEE, International Convention MIPRO 2013*, 2013, 254-257, ISSN: 1847-3946.
18. Axelsson, O., P. Boyanova, M. Kronbichler, M. Neytcheva, and X. Wu, Numerical and computational efficiency of solvers for two-phase problems, *Computers and Mathematics with Applications*, 65(3), 2013, 301-314, ISSN: 0898-1221
19. Bakanov, A., Bakanova, N., Tashev, T. About an approach to model development of man-computer interaction. *International Journal "Information Technologies & Knowledge"*, Volume 7, Number 4, 2013. ITHEA[®], Sofia, Bulgaria. 392-397. ISSN 1313-0455.
20. Behar, V., Chr. Kabakchiev, I. Garvanov, Simple Algorithms for Target Detection in FSR using Local Statistics, In: *Proceedings of the 14th Interetional Radar Symposium ISR'2013*, June 19-21,2013, Dresden, Germany, 631-636, ISBN: 978-3-95404-223-4
21. Behar, V., Chr. Kabakchiev, I. Garvanov. Sound Source Localization in a Security System using a Microphone Array, In: *Proceedings of the 2nd International Conference on Telecommunications & Remote Sensing - ICTRS'2013*, 11-12 July, 2013, 85-94, Noordwijkerhout, the Netherlands, ISBN: 978-989-8565-57-0
22. Bocheva, N., D. Angelova, M. Stefanova, Age-related changes in fine motion direction discriminations. *Experimental Brain Research*, Springer, July 2013, Volume 228, Issue 3, 257-278, ISSN: 0014-4819.
23. Boiadjiev G., Delchev K., Boiadjiev T., Zagurski K., Kastelov R., Vitkov V., Controlled Trust Force Influence on Automatic Bone Drilling Parameters in the Orthopedic Surgery, *Int. Journal of Pure and Applied Mathematics IJPAM*, 2013, vol 88, No.4, 577 – 592, ISSN 1311-8080
24. Boiadjiev G., Kastelov R., Boiadjiev T., Kotev V., Delchev K., Zagurski K., Vitkov V, Design and performance study of an orthopaedic surgery robotized module for automatic bone drilling, *Journal of Medical Robots and Computer Assisted Surgery*, 26 Feb. 2013, Wileyonlinelibrary.com, DOI:10.1002/rcs.1479, ISSN 1478-596X

25. Boiadjiev G., Kotev V., Delchev K., Boiadjiev T., Modeling and Development of a Robotized Hand-Hold Bone Cutting Device OCRO, Proceedings of the Int. Conf. ICMAM 2012, Dec. 5-6, Hong Kong, *Int. Journal Applied Mechanics and Materials*, Vols 300-301, 2013, 479-483, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/ AMM.300-301.479, ISSN 1662-7482
26. Boiadjiev G., Kotev V., Zagurski K., Delchev K., Boiadjiev T., Kastelov R., Robotized System for Bone Drilling and Cutting in Orthopedic Surgery, *Int. Journal Advanced Materials Research*, Vol 740, 2013, 92-98, Trans Tech Publications, Switzerland, doi:10.4028 /www.scientific.net/ AMR.740-92, ISSN 1662-8985
27. Borissova D., I. Mustakerov, E. Bantutov. Web-based architecture of a system for design assessment of night vision devices. *International Journal of Information Science and Engineering*, Vol.7, No7, 2013, 62-67, ISSN 2010-376X, eISSN 2010-3778.
28. Borissova D., I. Mustakerov. K-best night vision devices by multi-criteria mixed-integer optimization modeling. *International Journal of Information Science and Engineering*, Vol. 7, No 10, 2013, 205-210, ISSN 2010-376X, eISSN 2010-3778.
29. Borissova D., I. Mustakerov. A concept of intelligent e-maintenance decision making system. In: *Proc. of IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, 19-21 June 2013, IEEE Xplore©, Print ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577668
30. Borissova, D., I. Mustakerov. An algorithm for an optimal staffing problem in open shop environment. *World Academy of Science, Engineering and Technology*, Vol. 76, 2013, 46-50, ISSN 2010-376X, eISSN 2010-3778.
31. Boshnakov K., L. Doukovska, E. Mihailov, V. Petkov, S. Vassileva, S. Kojnov. Predictive Maintenance Model-Based Approach for Objects Exposed to Extremely High Temperatures, In: *Proceedings of the Signal Processing Symposium – SPS'13*, Jachranka Village, Poland, art. no. 6623621, IEEE, 2013, ISBN 978-1-4673-6319-8-13-2013.
32. Boyanov K, Boyanov L, On the Measurement of Quantity of Information and its Link with Information Processing, *International Journal of Advanced Computer Science (IJACS)*, Vol. 03, No 9, September 2013, 448-452), ISSN: 2251-6379.
33. Boyanova, P., M. Neytcheva, Efficient numerical solution of discrete multi-component Cahn-Hilliard systems, *Computers and Mathematics with Applications*, 10.1016/j.camwa.2013.10.013, ISSN: 0898-1221
34. Cantoni, V., D.T. Dimov, Structural Blocks Retrieval in Macromolecules: Saliency and Precision Aspects, ICIAP Workshops, *Lecture Notes in Computer Science*, volume 8158, 2013, 372-380, Springer, ISSN 0302-9743, ISBN 978-3-642-41189-2, DOI 10.1007/978-3-642-41190-8
35. Dezert, J., Tchamova, A., Han, D., Tacnet, J. Why Dempster's rule doesn't behave as Bayes rule with informative priors, *IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, Albena, Bulgaria, 19-21 June, 2013, 1-5, IEEE Xplore©, ISBN:978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577631
36. Dezert, J., A. Tchamova, D. Han, J.Tacnet.; Why Dempster's fusion rule is not a generalization of Bayes fusion rule, *16th International Conference on Information Fusion (FUSION)*, Istanbul, 9-12 July 2013, 1127 – 1134, ISBN: 978-605-86311-1-3

37. Dichev, Ch., D. Dicheva, G. Agre, G. Angelova. Current Practices, Trends and Challenges in K-12 Online Learning. *Cybernetics and Information Technologies, Vol. 13, № 3*, Sofia, 2013, 91-110, ISSN 1311-9702.
38. Dimitrov S., T. Stoilov. Loading Test of the Apache HTTP Server by video file and usage measurements of the hardware components. In: *Proceedings of the International Conference Computer Systems and Technologies, CompSysTech'13*, 28-29 June 2013, Russe, ACM Conference Proceeding Series, 59-66, ISBN: 978-1-4503-2021-4.
39. Dimov, I. T., K. Atanasov. Interpretation of a Monte Carlo Approach of a Finite Difference Scheme by a Game Method for Modelling. In: *Proc. Jangjeon Math. Soc.* 16 (3), 2013, 381-388, ISSN: 1598-7264.
40. Dimov, I. T., R. Georgieva. Multidimensional Sensitivity Analysis of Large-scale Mathematical Models. O.P. Iliev et al. (eds.), *Numerical Solution of Partial Differential Equations: Theory, Algorithms, and Their Applications, Springer Proceedings in Mathematics & Statistics 45*, Springer Science+Business Media, New York, 2013, 137 – 156. ISBN: 978-1-4614-7171-4 (Print) 978-1-4614-7172-1 (Online). DOI 10.1007/978-1-4614-7172-1 8.
41. Dimov, I. T., R. Georgieva, Tz. Ostromsky, Z. Zlatev. Sensitivity Studies of Pollutant Concentrations Calculated by UNI-DEM with Respect to the Input Emissions. *Central European Journal of Mathematics, Numerical Methods for Large Scale Scientific Computing* 11 (8), 2013, 1531 – 1545, ISSN: 1895-1074. Doi: 10.2478/s11533-013-0256-2.
42. Dimov, I. T., R. Georgieva, Tz. Ostromsky, Z. Zlatev. Advanced Algorithms for Multidimensional Sensitivity Studies of Large-scale Air Pollution Models based on Sobol Sequences. *Special issue of Computers and Mathematics with Applications 65 (3), "Efficient Numerical Methods for Scientific Applications"*. Elsevier, 2013, 338 – 351, ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005.
43. Dimov, I. T. R., Georgieva, Tz. Ostromsky, Z. Zlatev. Variance-based Sensitivity Analysis of the Unified Danish Eulerian Model According to Variations of Chemical Rates. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 247 – 254. ISSN: 0302-9743.
44. Dimov, D., S. Nedkov, Emotion Recognition by Face Dynamics, In: *CompSysTech'13 Proceedings of the 14th International Conference on Computer Systems and Technologies*, ACM ICPS Vol. 767, ACM Inc., NY, USA, 2013, 128-136, ISBN: 978-1-4503-2021-4
45. Doukovska L., S. Vassileva. Knowledge-based Mill Fan System Technical Condition Prognosis, *Journal of the World Scientific and Engineering Academy and Society. WSEAS Transactions on Systems, Special Issue on Knowledge-based Modeling and Control of Multi-factorial Processes*, 398-408, 2013, Print ISSN 1109-2777, eISSN 2224-2678.
46. Elvesæter B., Benguria G., and Ilieva S., A Comparison of the Essence 1.0 and SPEM 2.0 Specifications for Software Engineering Methods, In: *Proc. of the Third Workshop on Process-based approaches for Model-Driven Engineering (PMDE 2013)*, Montpellier, France, 2013. ACM, art.n. 2, ISBN: 978-1-4503-2047-4, doi>10.1145/2489833.2489835.
47. Farago, I., K. Georgiev, A. Havasi and Z. Zlatev, Efficient numerical methods for scientific applications: Introduction, *Computers and Mathematics with Applications*, Vol. 65 (3), 2013, Elsevier. ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005, 297 - 300

48. Fidanova S. Application of HPD Model for Predicting Protein Mutations. *Int. J. Cybernetics and Information Technologies* 13 (4), 2013, 95 – 103, ISSN: 1311-9702.
49. Fidanova, S., P. Marinov. Ant Colony Optimization Start Strategies Performance According Some of the Parameters. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.). *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 287-294, ISSN: 0302-9743.
50. Fidanova S., Roeva O., Hybrid Bat Algorithm for Parameter Identification of an E. coli Cultivation Process Model. *Biotechnology & Biotechnological Equipment* 27 (6), DIAGNOSIS PRESS Ltd, 2013, 4323-4326, ISSN:1310-2818.
51. Fidanova S., Roeva O., Ganzha M., ACO and GA for Parameter Settings of E.coly Fed-Batch Cultivation Model, In: *Recent Advancece in Computational Optimizattion, Studies in Computational Intelligence* 470, S. Fidanova (editor), Book chapter 4, Springer, 2013, 51 – 71, ISBN: 978-3-319-00409-9.
52. Fidanova, S., O. Roeva. Metaheuristic Techniques for Optimization of an E. coli Cultivation Model. *Biotechnology & Biotechnological Equipment* 27(3). DIAGNOSIS PRESS Ltd, 2013, 3870 – 3876, ISSN: 1310-2818. .
53. Fidanova, S., M. Shindarov, P. Marinov. Multi-Objective Ant Algorithm for Wireless Sensor Network Positioning. *Proceedings of the Bulgarian Academy of Sciences* 66(3), 2013, 353 – 360, ISSN: 1310-1331.
54. Ganzha, M., Ivan Lirkov, Marcin Paprzycki, Comparative analysis of high performance solvers for solving Stokes equation, *Application of Mathematics in Technical and Natural Sciences, AMiTaNS 2013*, Michail D. Todorov ed., AIP Conference Proceedings, 1561, 347–354, 2013. ISBN 978-0-7354-1189-0
55. Garvanov , Chr. Kabakchiev ,V. Behar, Sound Parameter Estimation in a Security System, *Proc. of the 2nd Intern., Conf. on Telecommunications & Remote Sensing - ICTRS'2013*,11-12 July, 2013, 140-144, Noordwijkerhout, the Netherlands, ISBN: 978-989-8565-57-0.
56. Gadzhev, G., Ganev, K., Prodanova, M., Syrakov, D., Atanasov, E., Miloshev, N. Multi-scale Atmospheric Composition Modelling for Bulgaria. *NATO Science for Peace and Security Series C: Environmental Security* 137, 381-385, 2013, ISSN: 1874-6519.
57. Genova K., Kirilov L., Guliashki V. New Reference – Neighborhood Scalarization Problem for Multiobjective Integer Programming. *Cybernetics and Information Technologies*, Vol. 13, No 1, 2013, 104-114, ISSN: 1311-9702.
58. Georgieva P., I. Popchev. Fuzzy Logic Q-measure Model for Managing Financial Investments, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №5, 651-658, ISSN 1310-1331, 2013.
59. Georgieva, I., C. Hofreither, Interpolation of harmonic functions based on Radon projections, *Numerische Mathematik*, 2013. DOI:10.1007/s00211-013-0592-y, ISSN: 0029-599X.
60. Georgiev, K., N. Kosturski, S. Margenov, Y. Vutov, Parallel algorithms for adaptive time-stepping in radiofrequency liver ablation simulation: implementation on an IBM Blue Gene/P computer, *Preprints of Position Papers of the Federated Conference on Computer Science and Information Systems*, M. Ganzha, L. Maciaszek, M. Paprzycki (editors), 23–26, 2013, ISSN 2300-5963, ISBN 978-83-60810-55-2 (Web), 978-83-60810-56-9 (USB).

61. Georgiev, S., and Z. Minchev, An Evolutionary Prototyping for Smart Home Inhabitants Wearable Biomonitoring', In: *Proceedings of Conjoint Scientific Seminar 'Modelling & Control of Information Processes'*, IMI-BAS, November 19, 2013, 21-30, ISSN 1314-2771
62. Георгиев, С. Колев, Х., Обрешков, Н., Лалев, Е. Система за сигурност в домовете на бъдещето, *Сборник материали национална конференция с международно участие, HOME/2010/CIPS/AG/019, Част втора*, София, България, юни 4, 2013, 91-100, ISBN 978-954-92552-7-0
63. Gerdjikov, S., Mihov, S., Mitankin, P., Schulz, K.U., WallBreaker. Overcoming the wall effect in similarity search. In: *Proceeding EDBT '13, Proceedings of the Joint EDBT/ICDT 2013 Workshops*, 366-369, ACM, ISBN: 978-1-4503-1599-9, doi 10.1145/2457317.2457385
64. Gerdjikov, S., Mihov, S., Nenchev, V., Extraction of Spelling Variations from Language Structure for Noisy Text Correction, In: *12th International Conference on Document Analysis and Recognition (ICDAR)*, 2013, 324 - 328, ISSN: 1520-5363, DOI: 10.1109/ICDAR.2013.72
65. Guliashki V., Kirilov L., Genova K. An Interactive Evolutionary Algorithm for Multiple Objective Integer Problems. *International Journal on Information Technologies and Security*, No 2, 2013, 45-54, ISSN: 1313-8251.
66. Hadjiski M., L. Doukovska. CBR approach for Technical Diagnostics of Mill Fan System, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №1, 93-100, 2013, ISSN 1310-1331.
67. Hristov V, G. Agre. A Software System for Classification of Archaeological Artefacts Represented by 2D Plans. *Cybernetics and Information Technologies*, Vol. 13, № 2, Sofia, 2013, 82-96, ISSN 1311-9702.
68. Hristova, R., G. Goranov, User-level Framework for Performance Monitoring of HPC Applications, *AMITANS 2013, AIP Conference Proceedings*, 1561, 144-152, 2013, doi: 10.1063/1.4827223, ISSN: 0094-243X.
69. Ilchev, S., Accurate Data Embedding in JPEG Images for Image Authentication, *Comptes rendus de l'Acad'emie bulgare des Sciences*, vol. 66, no. 9, 1247-1254, Sep. 2013, ISSN 1310-1331.
70. Ilieva S., I. Krasteva, G. Benguria, B. Elvesæter, Enhance your Model-driven Modernization Process with Agile Practices, In: *Proceedings of the 1st International Workshop in Software Evolution and Modernization – SEM 2013*, Ricardo Perez-Castillo (Ed.), Angers Loire Valley, France, July 2013, 95-102, SCITEPRESS, ISBN 978-989-8565-66-2.
71. Ivanov, V. A program for an automatic PicoBlaze type embedded system generation .In; *Proc. of 14-th International Conference on Computer Systems and Technologies CompSysTech'13*, 28-29 June 2013, Ruse, Bulgaria, 91-97, ACM, ISBN: 978-1-4503-2021-4.
72. Ivanov V. On the approach for automatic generation of small embedded PicoBlaze system, In: *Proc. of the 13th International Conference on ACSD*, Barcelona, Spain, 2013, 257-260, ISBN 978-0-7695-5035-0, ISSN 1550-4808.

73. Jotsov V., S. Koynov. Applications of Knowledge Discovery Methods in Education, *International Journal „Information Technologies & Knowledge”* vol. 7, №2, 103-117, ITHEA[®], 2013, ISSN 1313-0455 (printed), ISSN 1313-048X (online).
74. Kabakchiev, Chr., I. Garvanov, V. Behar, H. Rohling. The Experimental Study of Possibility for Radar Target Detection in FSR using L1-Based Non-Cooperative Transmitter, *Proc. of the 14th Intern. Radar Symposium ISR'2013*, June 19-21, 2013, Dresden, Germany, 625-630, ISBN: 978-3-95404-223-4
75. Kabakchiev, Chr., I. Garvanov, V. Behar, A. Lazarov, H. Rohling, The Experimental Study of Target FSR Shadow Detection using GPS Signals, *Proc. of the 3rd Intern. Symposium on Radio Systems and Space Plasma (ISRSSP'2013)*, 28-29 August, 2013, Sofia, Bulgaria, 64-73, ISBN: 978-619-90124-1-3
76. Kabakchieva, D., Chr. Kabakchiev, V. Behar, I. Garvanov, FSR Marine Target Classification with Data Mining Approach, *Proc. of the 2nd Intern., Conf. on Telecommunications & Remote Sensing - ICTRS'2013*, 11-12 July, 2013, Noordwijkerhout, the Netherlands, 145-152, ISBN: 978-989-8565-57-0
77. Kandeва M., Ivanova B., Karastoyanov D., Composite Coatings to Improve Durability of the Working Body of the Drill., In: *Proc. of 5th World tribology congress WTC 2013*, September 8-13 2013, Torino, Italy, 61-62, ISBN 978-88-908-185
78. Kandeва M., Karastoyanov D., Ivanova B., Friction and Wear of Ni Coatings with Nanosize Particles of SiC., In: *Proc. of 5th World tribology congress WTC 2013*, September 8-13 2013, Torino, Italy, 63-64, ISBN 978-88-908-185
79. Karaivanova, A., E. Atanasov, and T. Gurov, Monte Carlo Simulation of Ultrafast Carrier Transport: Scalability Study, *ICCS 2013*, Published by Elsevier B.V., *Procedia Computer Science*, vol. 18, 2298-2306, 2013, ISSN: 1877-0509, doi:10.1016/j.procs.2013.05.401.
80. Karastoyanov D., Energy Efficient Control of Linear Micro Drives for Braille Screen., In: *Proc. of International Conference on Human and Computer Engineering ICHCE 2013*, October 14-15 2013, Osaka, Japan, 860-864, ISSN 2010-376x, eISSN 2010-3778
81. Karastoyanov, D., V. Monov, An advanced technology for renovation of extruding shafts, *World Academy of Science, Engineering and Technology*, Vol. 80, 407-410, ISSN 2010-376X, eISSN 2010-3778.
82. Karastoyanov, D., V. Monov, An intelligent system for knee and ankle rehabilitation, *World Academy of Science, Engineering and Technology*, Vol. 80, 411-416, ISSN 2010-376X, eISSN 2010-3778.
83. Karastoyanov, D., V. Monov, T. Penchev, New type electromagnetic drive for Braille screen, In: *Proceedings of the Third International IEEE Conference on Information Science and Technology*, March 23-25 2013, Yangzhou, Jiangsu, China, 178-182, ISBN 978-1-4673-5137-9.
84. Kirilov L., Guliashki V., Genova K., Vassileva M., Staykov B. Generalized scalarizing model GENS in DSS WebOptim. *International Journal of Decision Support System Technology*, Vol. 5, Issue 3, 2013, 1-11, ISSN: 1941-6296.
85. Kolchakov K. Class of Algorithms for synthesis of Non-Conflict Schedule in Communication Nodes. *International Journal “Information Theories and Applications”*, Vol. 20, Number 2, 2013, 167-172, ISSN 1313-0463.

86. Koprinkova-Hristova, P., Oubbati, M., Palm, G., Heuristic dynamic programming using echo state network as online trainable adaptive critic, *International Journal of Adaptive Control and Signal Processing*, vol.27, Issue 10, 902–914, October 2013, ISSN: 0890-6327, DOI: 10.1002/acs.2364
87. Koprinkova-Hristova P., L. Doukovska, P. Kostov. Working Regimes Classification for Predictive Maintenance of Mill Fan Systems, In: *Proceedings of the International Symposium on INnovations in Intelligent SysTems and Applications – INISTA'13*, IEE Explore, 2013, 1-5, ISBN 978-1-4799-0661-1-13-2013, DOI: 10.1109/INISTA.2013.6577632
88. Koprinkova-Hristova, P., Tontchev, N., Popova, S., Two approaches to multi-criteria optimization of steel alloys for crankshafts production, *International Journal of Reasoning-based Intelligent Systems, Special Issue on Innovations of intelligent systems and engineering*, vol. 5, No2, 2013, 96-103. ISSN:1755-0564. DOI: 10.1504/IJRIS.2013.057271
89. Koprinkova-Hristova, P., Alexiev, K., Borisova, D., Jelev, G., Atanassov, V., Recurrent neural networks for automatic clustering of multispectral satellite images, SPIE Remote sensing, Sept. 23-26, 2013, Dresden, Germany, *Proceedings of SPIE, vol. 8892, Image and Signal Processing for Remote Sensing XIX*, Editor(s): Lorenzo Bruzzone, 88920X, October 17, 2013, ISSN: 0277-786X, doi:10.1117/12. ISBN: 9780819497611.
90. Koprinkova-Hristova, P., Alexiev, K., Echo State Networks in Dynamic Data Clustering, *Artificial Neural Networks and Machine Learning – ICANN 2013, Lecture Notes in Computer Science*, Eds.: Mladenov, V., Koprinkova-Hristova, P., Palm, G., Villa, A.E.P., Appollini, B., Kasabov, N., vol.8131, 2013, 343-350, ISSN: 0302-9743, ISBN: 978-3-642-40727-7, DOI: 10.1007/978-3-642-40728-4.
91. Koprinkova-Hristova, P., Angelova, D., Borisova, D., Jelev, G., Clustering of spectral images using Echo state networks, *2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications, IEEE INISTA 2013*, June 19-21, Albena, Bulgaria, ISBN: 978-147990661-1, DOI: 10.1109/INISTA.2013.6577633
92. Korsemov Ch., Hr. Toshev, I. Mustakerov, D. Borissova, V. Grigorova. An optimal approach to design of joinery for renovation of panel buildings. *International Journal of Science and Engineering Investigations*, vol. 2(18), 2013, 123-128, ISSN: 2251-8843.
93. Kosturski, N., S. Margenov, Y. Vutov, Computer Simulation of RF Liver Ablation on an MRI Scan Data, *AIP Conf. Proc.* 1487, 2013, 120-126, ISSN: 0094-243X
94. Kotev V., Boiadjiev G., Kawasaki H., Mouri T., Delchev K., Boiadjiev T., A Design Concept of an Orthopedic Bone Drilling Mechatronics System, 2nd Int. Conf. on Mechanical Engineering and Materials, Jan. 27-28, 2013, Sanya, China, *Int. Journal Applied Mechanics and Materials*, Vol. 302, 2013, 248-251, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.302.248, ISSN 1660-9336.
95. Krasteva I., S. Stavru, S. Ilieva, Agile Model-Driven Modernization to the Service Cloud, *ICIW 2013, The Eighth International Conference on Internet and Web Applications and Services*, Rome, Italy - June 23 - 28, 2013, 1-9, ISBN: 978-1-61208-280-6
96. Kraus, J., M. Lymbery, S. Margenov, Robust Multilevel Methods for Quadratic Finite Element Anisotropic Elliptic Problems, *Numerical Linear Algebra With Applications*, 2013, DOI: 10.1002/nla.1876, ISSN: 1099-1506

97. Kraus, J., M. Lymbery, S. Margenov. Robust algebraic multilevel preconditioners for anisotropic elliptic problems. *Springer Proceedings in Mathematics and Statistics*. Vol. 45, 217-246, 2013. doi=10.1007/978-1-4614-7172-1_12. ISSN 2194-1009.
98. Kraus, J., M. Lymbery, S. Margenov. Robust multilevel methods for quadratic finite element anisotropic elliptic problems. *Numer. Linear Algebra Appl.* doi: 10.1002/nla.1876. 2013, Online ISSN: 1099-1506.
99. Manova D., Petrova-Antonova D., S. Ilieva. Testing web service's compositions following TASSA methodology *International Conference on Computer Systems and Technologies (CompSysTech 2013)*, Rousse, Bulgaria, June 28-29, 2013, 185-192, ACM New York, NY, USA ©2013, ISBN: 978-1-4503-2021-4
100. Marinov, P., Zhang, S., Kutiev, I., Comparison of topside ionosphere scale height modeled by the Topside Sounder Model and incoherent scatter radar ionospheric model, *Journal Advances in Space Research*, 52(10), 2013, 1717-1725, ISSN: 0273-1177.
101. Mihaylova, D. Angelova, A. Zvikhachevskaya, Sequential Monte Carlo Methods for Localization in Wireless Networks, *Chapter 4 in Advances in Intelligent Signal Processing and Data Mining*, P. Georgieva, L. Mihaylova, L. Jain, Editors, Springer-Verlag, 2013, 89-119, ISBN: 978-3-642-28695-7, e-ISBN: 978-3-642-28696-4.
102. Minchev, Z., L. Boyanov and S. Georgiev. Security of Future Smart Homes. Cyber-Physical Threats Identification Perspectives. In: *Proceedings of the National Conference with International Participation in Realization of the EU project "Development of Tools Needed to Coordinate Intersectorial Power and Transport CIP Activities at a Situation of Multilateral Terrorist Threat. Increase of the Capacity of Key CIP Objects in Bulgaria"*. June 2013, Sofia, Bulgaria, 165-169, ISBN 978-954-92552-7-0
103. Minchev, Z.. 2D vs 3D Visualization & Social Networks Entertainment Games. A Human Factor Response Case Study, In: *Proceedings of 12th International Conference, ICEC 2013*, São Paulo, Brazil, October 16-18, 2013 (Editors: Junia C. Anacleto, Esteban W. G. Clua, Flavio S. Correa da Silva, Sidney Fels, Hyun S. Yang), *Lecture Notes in Computer Science*, Vol. 8215 2013, 107-113, ISBN 978-3-642-41105-2 (Print) 978-3-642-41106-9 (Online)
104. Monov, V., D. Karastoyanov, T. Penchev, Advanced control methods and technologies for two industrial processes, In: *Proceedings of the Third International IEEE Conference on Information Science and Technology*, March 23-25 2013, Yangzhou, Jiangsu, China, 187-194, ISBN 978-1-4673-5137-9.
105. Monov, V.; Tashev, Tasho D. Determinant and norm inequalities for bialternate products of matrices. *Comptes rendus de l'Academie bulgare des Sciences*, Volume: 66 Issue: 3, 2013, Sofia, Bulgaria. 345-352., ISSN: 1310-1331.
106. Mustakerov I., D. Borissova. A combinatorial optimization ranking algorithm for reasonable decision making. *Comptes rendus de l'Academie bulgare des Sciences*, 66(1) 2013, 101-110, ISSN 0366-8681 0861-1459.
107. Mustakerov I., D. Borissova. A discrete choice modeling approach to modular systems design. *World Academy of Science, Engineering and Technology*, Vol. 76, 2013, 133-139, ISSN 2010-376X, eISSN 2010-3778.
108. Mustakerov I., D. Borissova. An intelligent approach for optimum maintenance strategy defining. In: *Proc. of 2013 IEEE International Symposium on Innovations in*

Intelligent Systems and Applications (INISTA), 19-21 June 2013, ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577666.

109. Mustakerov I., D. Borissova. Data structures and algorithms of intelligent Web-based system for modular design. *International Journal of Computer Science and Engineering*, Vol.7, No7, 2013, 87-92, ISSN 2010-376X, eISSN 2010-3778.
110. Mustakerov I., D. Borissova. Investments attractiveness via combinatorial optimization ranking. *International Journal of Management Science and Engineering*, Vol. 7, No 10, 2013, 230-235, ISSN 2010-376X, eISSN 2010-3778.
111. Mustakerov I., D. Borissova. Modular systems design via multi-objective optimization. *AMO – Advanced Modeling and Optimization*, Vol. 15, No 2, 2013, 421-430, ISSN: 1841-4311.
112. Nedjalkov, M., P. Schwaha, S. Selberherr, J. M. Sellier, D. Vasileska. Wigner Quasi-Particle Attributes - An Asymptotic Perspective, *Applied Physics Letters* 102, 2013, art. no. 163113, 163113-1 - 163113-4. ISSN: 0003-6951.
113. Nikolova, I., G. Angelova, D. Tcharaktchiev and S. Boytcheva. Medical Archetypes and Information Extraction Templates in Automatic Processing of Clinical Narratives, In *Proceedings of ICCS 2013, 10-12 January, Mumbai, India, Conceptual Structures for STEM Research and Education, Springer, Lecture Notes in Computer Science Volume 7735*, 2013, 106-120, ISSN 0302-9743.
114. Nikolova, I., I. Temnikova and G. Angelova. Enriching Patent Search with External Keywords: a Feasibility Study. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.) *Proceedings of the International Conference Recent Advances in Natural Language Processing (RANLP 2013)*, September 7-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 525-531, ISSN 1313-8502.
115. Ostromsky, Tz., I. T. Dimov, R. Georgieva, P. Marinov, Z. Zlatev. High Performance Computing of Data for a New Sensitivity Analysis Algorithm, Applied in an Air Pollution Model. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 428 – 436, ISSN: 0302-9743.
116. Ostromsky, Tz., I. T. Dimov, R. Georgieva, P. Marinov, Z. Zlatev. Sensitivity Study of a Large-Scale Air Pollution Model by Using High-Performance Computations and Monte Carlo Algorithms. In: *Proceedings of Fifth International Conference AMiTaNS'13*, June 24 - 29, 2013, Albena, Bulgaria, AIP Conf. Proceedings 1561, 2013, 153 – 163. ISSN: 0094-243X; ISBN: 978-0-7354-1189-0. Doi: 10.1063/1.4827224.
117. Pashova, L., Koprinkova-Hristova, P., Popova, S., Gap Filling of Daily Sea Levels by Artificial Neural Networks. *TransNav - the International Journal on Marine Navigation and Safety of Sea Transportation*, vol.7 (2), 2013, 225-232. ISSN:2083-6473, DOI:10.12716/1001.07.02.10
118. Pavlov, Y., Preferences, Utility And Prescriptive Decision Control In Complex Systems, *International journal of Intelligent Systems and Applications in Engineering (IJISAE)*, Vol.1, No. 4, 52-59, 2013, ISSN 2147-6799.
119. Pencheva T., O. Roeva, V. Atanassova, M. Angelova. Generalized Net Model of the lac Operon, *Issues in Intuitionistic Fuzzy Sets and Generalized Nets*, EXIT Press, Warsaw, vol. 11, 75-84, 2013, ISBN 978-83-61551-08-9.
120. Penchev, T., D. Karastoyanov, V. Monov, Control system for “Controlled impact “laboratory device, In: *Proceedings of the Third International IEEE Conference on*

Information Science and Technology, March 23-25 2013, Yangzhou, Jiangsu, China, 215-218, ISBN 978-1-4673-5137-9.

121. Penchev T., Karastojanov D., Altaparmakov I., Experimental Study on “Controlled Impact” Effect in Plastic Deformation Processes., *Advanced Materials Research* Vol. 772, 2013, 3-8, Trans Tech Publications, Switzerland, ISBN 1662-8985
122. Petrova-Antonova D., S. Ilieva, V. Stoyanova, I. Manova, V. Pavlov. An Automated Approach for Fault Injection Testing of BPEL Orchestrations. *Proceeding of the 17th Conference on European Systems & Software Process Improvement and Innovation (EuroSPI'2013)*, June 25-27 2013, Dundalk, Ireland, F. McCaffery et al. (Eds.): *Systems, Software and Services Process Improvement 2013, Communications in Computer and Information Science*, Vol. 364, Springer, Heidelberg, 84-95, ISBN: 978-3-642-39178-1.
123. Petrova-Antonova D., S. Ilieva, V. Stoyanova. TESSI: A Web Service Testing Tool, *Proceedings of the 7th IEEE International Conference on Research Challenges in Information Science*, May 29-31 2013, Paris, France, 665-666, IEEE, ISBN 978-1-4673-2914-9/13
124. Petrov, N., L. Mihaylova, A. Gning, D. Angelova, Group Object Tracking with a Sequential Monte Carlo Method Based on a Parameterised Likelihood Function, *Chapter 19 in Proceedings from the 8th IMACS Seminar on Monte Carlo Methods and Applications*, Editors K. K. Sabelfeld, I. Dimov, De Gruyter GMBH, 69-77, 2013.
125. Popchev I., V. Angelova. Condition numbers and local perturbation bounds for the matrix equation $X^S \pm A^H X' A = Q$, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №1, 21-28, 2013, ISSN 1310-1331.
126. Popchev I., V. Angelova. Residual bound of the matrix equation $X + A^H X^{-1} A + B^H X^{-1} B = I$, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №10, 1379-1384, 2013, ISSN 1310-1331.
127. Radeva I. Multi-Criteria Models for Cluster Design, *Cybernetics and Information Technologies*, vol. 13, №1, 18-33, 2013, ISSN 1311-9702.
128. Roeva O., Fidanova S., Paprzycki M., Influence of the Population Size on the Genetic Algorithm Performance in Case of Cultivation Process Modelling. In: *Proc. of FedCSIS 2013, IEEE Xplorer*. 2013, 371 – 376, ISSN: 2300-5963. ISBN: 978-1-4673-4471-5, IEEE Catalog Number: CFP1385N-ART.
129. Savov S., I. Popchev. Experimental Study of Lyapunov Equation Solution Bounds for Power Systems Models, *Cybernetics and Information Technologies*, vol. 13, №1, 3-12, 2013, ISSN 1311-9702.
130. Savov S., I. Popchev. Non-Iterative Improvement of Trace Bounds for the Lyapunov Equation Solution, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №5, 733-738, 2013, ISSN 1310-1331.
131. Schwaha, P., D. Querlioz, P. Dollfus, J. Saint-Martin, M. Nedjalkov, S. Selberherr. Decoherence effects in the Wigner function formalism, *Journal of Computational Electronics* 12 (3), 2013, 388 – 396, ISSN: 1569-8025.
132. Schwaha, P., J. M. Sellier, M. Nedjalkov, I. T. Dimov, S. Selberherr. The Ultimate Equivalence Between Coherent Quantum and Classical Regimes. In: *Proceedings of the 16th International Workshop on Computational Electronics*, 2013, 152-153, ISBN: 978-3-901578-26-7.

133. Sellier, J. M., M. Nedjalkov, I. T. Dimov, S. Selberherr. Two-dimensional Transient Wigner Particle Model. *Proceedings of the 18th International Conference on Simulation of Semiconductor Processes and Devices*, 2013, 404 – 407, ISBN: 978-1-4673-5733-3.
134. Sgurev V. An Approach to Constructing a Complex Propositional Logic, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №11, 1623- 1632, 2013, ISSN 1310-1331.
135. Sgurev V., L. Doukovska, S. Drangajov, V. Nikov. Network Flow Interpretation of Innovation Processes and Risks, In: *Proceedings of the Signal Processing Symposium – SPS'13*, Jachranka Village, Poland, art. no. 6623603, IEEE, 2013, ISBN 978-1-4673-6319-8-13-2013.
136. Sgurev V., S. Drangajov, L. Doukovska, V. Nikov. Innovation Cycles Control Through Markov Decision Processes, In: *Proceedings of the International Symposium on Business Modeling and Software Design – BMSD'13*, Noordwijkerhout, The Netherlands, 286-291, 2013, ISBN 978-989-8565-56-3.
137. Shahpazov G., L. Doukovska, K. Atanassov. Generalized Net Model of the Methodology for Analysis of the Creditworthiness and Evaluation of Credit Risk in SMEs Financing, In: *Proceedings of the International Symposium on Business Modeling and Software Design – BMSD'13*, Noordwijkerhout, The Netherlands, 292-297, 2013, ISBN 978-989-8565-56-3.
138. Shahpazov G., L. Doukovska. Generalized net model of internal financial structural unit's functionality with intuitionistic fuzzy estimations, In: *Proceedings of the 17th International Conference on Intuitionistic Fuzzy Sets, Notes on Intuitionistic Fuzzy Sets*, vol. 19, №3, 111–117, 2013, ISSN 1310-4926.
139. Shahpazov V., V. Veleв, L. Doukovska, Design and Application of Artificial Neural Networks for Predicting the Values of Indexes on the Bulgarian Stock Market, In: *Proceedings of the Signal Processing Symposium – SPS'13*, Jachranka Village, Poland, art. no. 6623604, IEEE, 2013, ISBN 978-1-4673-6319-8-13-2013.
140. Shahpazov V., V. Veleв, L. Doukovska. Forecasting Price Movement of Sofix Index on the Bulgarian Stock Exchange – Sofia Using an Artificial Neural Network Model, In: *Proceedings of the International Symposium on Business Modeling and Software Design – BMSD'13*, Noordwijkerhout, The Netherlands, 298-303, 2013, ISBN 978-989-8565-56-3.
141. Simov, K. Towards a System for Dynamic Language Resources in LOD. In: *Proceedings of the Joint Workshop on NLP&LOD and SWAIE: Semantic Web, Linked Open Data and Information Extraction*. Associated event to RANLP 2013, 16-22, 2013, ISBN: 978-954-452-025-0.
142. Simov, K., G. Ivanova, M. Mateva and P. Osenova. Integration of Dependency Parsers for Bulgarian. In: Sandra Kübler, Petya Osenova, Martin Volk (Eds.). *Proc. of the Twelfth Workshop on Treebanks and Linguistic Theories (TLT12)*. Bulgaria, 2013, 145-156, Published by ICT-BAS, ISBN: 978-954-91700-6-1.
143. Sotirova E., Bureva V., Velizarova E., Fidanova S., Marinov P., Atanassov K., Hexagonal Game Method Model of Forest Fire Spread with Intuitionistic Fuzzy Estimations, 17-th Int. Conf. on IFSs, Sofia 1-2 November 2013, *Notes on Intuitionistic Fuzzy Sets*, Vol. 19(3), 2013, 73 – 80, ISSN 1310-4926.

144. Stavru S., I. Krasteva, S. Ilieva, Challenges of Model-Driven Modernization: An Agile Perspective, In: *Proceedings of the 1st International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2013*, Barcelona, Spain, 19-21 February 2013, 219-230, ISBN: 978-989856542-6, DOI: 10.5220/0004317502190230
145. Staykov B., T. Atanasova, V. Monov, L. Doukovska. The ERP Systems in Modern Business and Corporate Management, In: *Proceedings of the International Symposium on Business Modeling and Software Design – BMSD'13*, Noordwijkerhout, The Netherlands, 281-285, 2013, ISBN 978-989-8565-56-3.
146. Stojanović, V., P. Ribeiro, S. Stoykov, Non-linear vibration of Timoshenko damaged beams by a new p-version finite element method, *Computers & Structures* 120, 2013, 107-119, ISSN: 0045-7949.
147. Stoilova, K., T. Stoilov, K. Nikolov. Autonomic Properties in Traffic Control. *Cybernetics and Information Technology*, No4, 2013, 18-32, ISSN 1311-9702.
148. Stoyanova V., D. Petrova-Antonova, S. Ilieva. Automation of Test Case Generation and Execution for Testing Web Service Orchestrations, In: *Proceedings of the 7th IEEE International Symposium on Service Oriented System Engineering, (SOSE'2013)*. San Francisco Bay, March USA, 25-28, 2013, 274-279, ISBN: 978-076954944-6, DOI 10.1109/SOSE.2013.9
149. Stoykov, S., P. Ribeiro, Vibration analysis of rotating 3D beams by the p-version finite element method, *Finite Elements in Analysis and Design* 65, 2013, 76-88. ISSN: 0168-874X.
150. Stoykov, S., P. Ribeiro, Non-linear vibrations of beams with non-symmetrical cross sections, *International Journal of Non-Linear Mechanics* 55, 2013, 153–169. ISSN: 0020-7462.
151. Stoykov, S., S. Margenov, Nonlinear free vibrations of 3D composite beams, In: Z. Dimitrovová, J. Almeida, R. Gonçalves (Eds.), *Proceedings of the 11th International Conference on Vibration Problems*, 9 - 12 September 2013, Lisbon, Portugal, Paper id: 164, 10 p., ISBN: 978-989-96264-4-7.
152. Strandjev, B., G. Agre. On applicability of Principal Component Analysis to concept learning from images. 2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), 9-21 June 2013, Albena, Bulgaria, *IEEE Xplore*, 1-5, ISBN 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577623.
153. Sviercoski, R.F., S. Margenov, Displacement decomposition ACO based preconditioning of FEM elasticity systems, *AIP Conf. Proc.* 1561, 2013, 112-119, DOI: 10.1063/1.4827220, ISSN: 0094-243X
154. Tashev, T., Monov, V. A Computer Modeling of the Throughput of a Crossbar Switch by PI-Patterns for Uniform Traffic with Variable Intensity. In: *Proceedings of the 14-th International Conference on Computer Systems and Technologies CompSysTech'13*, 28-29 June 2013, Ruse, Bulgaria. ACM PRESS, New York, NY, USA, ACM ICPS Volume 767, 2013, 53-58. ISBN: 978-1-4503-2021-4.
155. Ташев, Т., Н. Баканова, Р. Ташева. Исследование верхней границы пропускной способности коммутационного узла при входящем трафике типа “горячей точки”. *International Journal "Information Technologies & Knowledge"*, Volume 7, Number 2, 2013, 182-189, ITHEA®, Sofia, Bulgaria, ISSN 1313-0455.

156. Tchamova, A., Dezert, Jean. Tracking applications with fuzzy-based fusion rules, *IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, Albena, Bulgaria, 19-21 June 2013, 1-5, Print ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577630
157. Temnikova, I., N. D. Hailu, G. Angelova, K. B. Cohen. Measuring Closure Properties of Patent Sublanguages. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.), *Proc. of the Int. Conf. on Recent Advances in Natural Language Processing (RANLP 2013)*, September 07-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 659-666, ISSN 1313-8502.
158. Temnikova, I., I. Nikolova, W. A. Baumgarther, G. Angelova, K. B. Cohen. Closure Properties of Bulgarian Clinical Text. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.), *Proc. of the Int. Conf. on Recent Advances in Natural Language Processing (RANLP 2013)*, September 07-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 667-675, ISSN 1313-8502.
159. Temnikova, I, K. Bretonnel Cohen. Recognizing sublanguages in scientific journal articles through closure properties. In: *Proceedings of the 2013 Workshop on Biomedical Natural Language Processing (BioNLP 2013)*, Sofia, Bulgaria, August 4-9 2013, 72–79, ISBN 978-954-452-024-3.
160. Todorov Y., M. Terziyska, S. Ahmed, M. Petrov. Fuzzy-Neural Predictive Control using Levenberg-Marquardt optimization approach, In: *Proceedings of International IEEE conference on Innovations in Intelligent Systems and Applications, INISTA'2013*, Albena, Bulgaria, IEE Explore, 1-5, 2013, ISBN 978-1-4799-0659-8.
161. Todorov Y., M. Terziyska, M. Petrov. Recurrent Fuzzy-Neural Network with fast learning algorithm for predictive control, In: *Proceedings of International Conference on Artificial Neural Networks ICANN' 2013*, (Eds. V. Mladenov et al.,), *Lecture Notes on Computer Science*, vol. 8131, 459-466, Springer, 2013, ISBN 987-3-642-40727-7.
162. Todorov Y., I. Nacheva, P. Metodieva, M. Doneva, T. Tsvetkov. Soft Computing Applications in Food Technology, *Bulgarian Journal of Agricultural Science*, vol. 19, Issue 3, 503-507, 2013, ISSN 1310-0351.
163. Trichkova, E., K. Stoilova. An Approach for Quality Assessment and Effectiveness of a Web-Based System for Distance Learning. *Cybernetics and Information Technology*, No4, 2013, 63-73, ISSN 1311-9702.
164. Trosheva A., V. Terzieva, A. Atanasova, P. Kademova-Katzarova .R. Andreev. Computer Games for Beginner Readers, Developing Abilities to Recognize Words, In: *Proc. of International Conference Education, Research & Development*, 05.09. – 06.09.2013, *Journal of International Scientific Publications: Educational Alternatives*, Vol. 11, part 2, 200- 211, ISSN 1313-2571
165. Wasielewska, K., M. Ganzha, M. Paprzycki, I. Lirkov, Developing Ontological Model of Computational Linear Algebra - Preliminary Considerations, *Application of Mathematics in Technical and Natural Sciences, AMiTaNS 2013*, Michail D. Todorov ed., AIP Conference Proceedings, 1561, 133–143, 2013. ISBN 978-0-7354-1189-0
166. Zhikov, Valentin, Georgiev, Georgi, Simov, Kiril, Osenova, Petya. Combining POS Tagging, Dependency Parsing and Coreferential Resolution for Bulgarian. In: (Angelova, G., K. Bontcheva, and R. Mitkov, Ed.). *Proceedings of the International Conference*

Recent Advances in Natural Language Processing (RANLP 2013), September 7-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 755-762, ISSN 1313-8502.

167. Zlatev, Z., I. T. Dimov, K. G.. Sensitivity of European Pollution Levels to Changes of Human-made Emissions, In: *Advanced Numerical Methods for Complex Environmental Models: Needs and Availability* (I. Farago, A. Havasi, Z. Zlatev, Eds), 2013, 166-202, eISBN: 978-1-60805-778-8, ISBN: 978-1-60805-777-1.
168. Zlatev, Z., K. Georgiev, I. T. Dimov. Parallel Computations in a Large-scale Air Pollution Model, In: *Advanced Numerical Methods for Complex Environmental Models: Needs and Availability* (I. Farago, A. Havasi, Z. Zlatev, Eds), 2013, 301-326, eISBN: 978-1-60805-778-8, ISBN: 978-1-60805-777-1
169. Zlatev, Z., K. Georgiev, I. Dimov. Influence of climatic changes on pollution levels in the Balkan Peninsula. *Computers and Mathematics with Applications*, Vol. 65 (3), “Efficient Numerical Methods for Scientific Applications”. Elsevier. ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005
170. Zlatev, Z., K. Georgiev, Applying approximate LU-factorizations as preconditioners in eight iterative methods for solving systems of linear algebraic equations, *Cent. Eur. J. Math.* 11(8), 2013, 1510-1530, ISSN: 1895-1074, DOI: 10.2478/s11533-013-0248

1.2. Списък на публикациите, които са включени в издания с импакт фактор IF (Web Of Science) или импакт ранг SJR (SCOPUS) (63)

1.2.1. Списък на публикациите, които са включени в издания с импакт фактор, IF (Web Of Science) (31)

1. Aleksandrov L., Djidjev H., Maheshwari A., Sack J.-R. An Approximation Algorithm for Computing Shortest Paths in Weighted 3-d Domains. *Discrete and Computational Geometry* 50 (1), 2013, 124-184, ISSN: 0179-5376. IF = 0.649
2. Axelsson, O., P. Boyanova, M. Kronbichler, M. Neytcheva, and X. Wu, Numerical and computational efficiency of solvers for two-phase problems, *Computers and Mathematics with Applications*, 65(3), 2013, 301-314, ISSN: 0898-1221, IF = 2.069
3. Bocheva, N., D. Angelova, M. Stefanova, Age-related changes in fine motion direction discriminations. *Experimental Brain Research*, Springer, July 2013, Volume 228, Issue 3, 257-278. IF = 2.395
4. Boiadjiev G., Kastelov R., Boiadjiev T., Kotev V., Delchev K., Zagurski K., Vitkov V, Design and performance study of an orthopaedic surgery robotized module for automatic bone drilling, *Journal of Medical Robots and Computer Assisted Surgery*, 26 FEB 2013, Wileyonlinelibrary.com, DOI:10.1002/rcs.1479, ISSN:1478-596X, IF = 1.488
5. Boyanova, P., M. Neytcheva, Efficient numerical solution of discrete multi-component Cahn-Hilliard systems, *Computers and Mathematics with Applications*, 10.1016/j.camwa.2013.10.013, ISSN: 0898-1221, IF = 1.747
6. Dimov, I. T., R. Georgieva, Tz. Ostromsky, Z. Zlatev. Sensitivity Studies of Pollutant Concentrations Calculated by UNI-DEM with Respect to the Input Emissions. *Central European Journal of Mathematics, Numerical Methods for Large Scale Scientific Computing* 11 (8), 2013, 1531 – 1545, ISSN:1895-1074. Doi: 10.2478/s11533-013-0256-2. IF = 0.44

7. Dimov, I. T., R. Georgieva, Tz. Ostromsky, Z. Zlatev. Advanced Algorithms for Multidimensional Sensitivity Studies of Large-scale Air Pollution Models based on Sobol Sequences. *Special issue of Computers and Mathematics with Applications 65 (3), "Efficient Numerical Methods for Scientific Applications"*. Elsevier, 2013, 338 – 351, ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005. IF = 1.747
8. Farago, I., K. Georgiev, A. Havasi and Z. Zlatev, Efficient numerical methods for scientific applications: Introduction, *Computers and Mathematics with Applications*, Vol. 65 (3), 2013, Elsevier. ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005, 297 – 300 IF = 1.747
9. Fidanova S., Roeva O., Hybrid Bat Algorithm for Parameter Identification of an E. coli Cultivation Process Model. *Biotechnology & Biotechnological Equipment 27 (6)*, DIAGNOSIS PRESS LTD, 2013, 4323-4326, ISSN:1310-2818. IF = 0.76
10. Fidanova, S., O. Roeva. Metaheuristic Techniques for Optimization of an E. coli Cultivation Model. *Biotechnology & Biotechnological Equipment 27(3)*. DIAGNOSIS PRESS LTD, 2013, 3870 – 3876, ISSN: 1310-2818. IF = 0.76
11. Fidanova, S., M. Shindarov, P. Marinov. Multi-Objective Ant Algorithm for Wireless Sensor Network Positioning. *Proceedings of the Bulgarian Academy of Sciences 66(3)*, 2013, 353 – 360, ISSN: 1310-1331. IF = 0.21
12. Georgieva P., I. Popchev. Fuzzy Logic Q-measure Model for Managing Financial Investments, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №5, 651-658, ISSN 1310-1331, 2013. IF = 0.21
13. Georgieva, I., C. Hofreither, Interpolation of harmonic functions based on Radon projections, *Numerische Mathematik*, 2013. DOI:10.1007/s00211-013-0592-y, IF=1.321
14. Hadjiski M., L. Doukovska. CBR approach for Technical Diagnostics of Mill Fan System, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №1, 93-100, 2013, ISSN 1310-1331. IF = 0.21
15. Ilchev, S., Accurate Data Embedding in JPEG Images for Image Authentication, *Comptes rendus de l'Acad'emie bulgare des Sciences*, vol. 66, no. 9, 1247-1254, Sep. 2013, ISSN 1310-1331. IF = 0.21
16. Koprinkova-Hristova, P., Oubbati, M., Palm, G., Heuristic dynamic programming using echo state network as online trainable adaptive critic, *International Journal of Adaptive Control and Signal Processing*, vol.27, Issue 10, 902–914, October 2013, ISSN: 0890-6327, DOI: 10.1002/acs.2364, IF = 0.913
17. Kraus, J., M. Lymbery, S. Margenov, Robust Multilevel Methods for Quadratic Finite Element Anisotropic Elliptic Problems, *Numerical Linear Algebra With Applications*, 2013, DOI: 10.1002/nla.1876, ISSN: 1099-1506, IF= 1.202
18. Kraus, J., M. Lymbery, S. Margenov. Robust multilevel methods for quadratic finite element anisotropic elliptic problems. *Numerica Linear Algebra with Appl.* doi: 10.1002/nla.1876. 2013, Online ISSN: 1099-1506. IF = 1.202
19. Monov, V.; Tashev, Tasho D. Determinant and norm inequalities for bialternate products of matrices. *Comptes rendus de l'Academie bulgare des Sciences*, Volume: 66 Issue: 3, 2013, Sofia, Bulgaria. 345-352,. ISSN: 1310-1331. IF = 0.21

20. Mustakerov I., D. Borissova. A combinatorial optimization ranking algorithm for reasonable decision making. *Comptes rendus de l'Academie bulgare des Sciences*, 66(1) 2013, 101-110, ISSN 0366-8681 0861-1459. IF = 0.21
21. Nedjalkov, M., P. Schwaha, S. Selberherr, J. M. Sellier, D. Vasileska. Wigner Quasi-Particle Attributes - An Asymptotic Perspective, *Applied Physics Letters* 102, 2013, art. no. 163113, 163113-1 - 163113-4. ISSN: 0003-6951. IF = 3.844
22. Popchev I., V. Angelova. Condition numbers and local perturbation bounds for the matrix equation $X^S \pm A^H X^t A = Q$, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №1, 21-28, 2013, ISSN 1310-1331. IF = 0.21
23. Popchev I., V. Angelova. Residual bound of the matrix equation $X + A^H X^{-1} A + B^H X^{-1} B = I$, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №10, 1379-1384, 2013, ISSN 1310-1331, IF = 0.21
24. Savov S., I. Popchev. Non-Iterative Improvement of Trace Bounds for the Lyapunov Equation Solution, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №5, 733-738, 2013, ISSN 1310-1331, IF = 0.21
25. Schwaha, P., D. Querlioz, P. Dollfus, J. Saint-Martin, M. Nedjalkov, S. Selberherr. Decoherence effects in the Wigner function formalism. *Journal of Computational Electronics* 12 (3), 2013, 388 – 396, ISSN: 1569-8025. IF = 1.211
26. Sgurev V. An Approach to Constructing a Complex Propositional Logic, *Comptes rendus de l'Academie bulgare des Sciences*, vol. 66, №11, 1623- 1632, 2013, ISSN 1310-1331. IF = 0.21
27. Stojanović, V., P. Ribeiro, S. Stoykov, Non-linear vibration of Timoshenko damaged beams by a new p-version finite element method, *Computers & Structures* 120, 2013, 107-119, ISSN: 0045-7949, IF= 1.509
28. Stoykov, S., P. Ribeiro, Vibration analysis of rotating 3D beams by the p-version finite element method, *Finite Elements in Analysis and Design* 65, 2013, 76-88. ISSN: 0168-874X, IF = 1.729
29. Stoykov, S., P. Ribeiro, Non-linear vibrations of beams with non-symmetrical cross sections, *International Journal of Non-Linear Mechanics* 55, 2013, 153–169. ISSN: 0020-7462. IF = 1.598
30. Todorov Y., I. Nacheva, P. Metodieva, M. Doneva, T. Tsvetkov. Soft Computing Applications in Food Technology, *Bulgarian Journal of Agricultural Science*, vol. 19, Issue 3, 503-507, 2013, ISSN 1310-0351. IF = 0.178
31. Zlatev, Z., K. Georgiev, I. Dimov. Influence of climatic changes on pollution levels in the Balkan Peninsula. *Computers and Mathematics with Applications*, Vol. 65 (3), “Efficient Numerical Methods for Scientific Applications”. Elsevier. ISSN: 0898-1221. Doi: 10.1016/j.camwa.2012.07.005, IF = 2.086

1.2.2. Списък на публикациите, които са включени в издания с импакт ранг SJR (SCOPUS) (32)

1. Andreev, A., M. Racheva. Nonconforming Rectangular Morley Finite Elements. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) Proceedings of NAA 2012, *Lecture Notes in Computer Science (LNCS) 8236*, Springer, 2013, 158 – 165, ISSN: 0302-9743, SJR (2012) = 0.332

2. Boiadjiev G., Delchev K., Boiadjiev T., Zagurski K., Kastelov R., Vitkov V., Controlled Trust Force Influence on Automatic Bone Drilling Parameters in the Orthopedic Surgery, *Int. Journal of Pure and Applied Mathematics IJPAM*, 2013, vol 88, No.4, 577 – 592, ISSN 1311-8080, SJR = 0.186
3. Cantoni, V., D.T. Dimov, Structural Blocks Retrieval in Macromolecules: Saliency and Precision Aspects, ICIAP Workshops, *Lecture Notes in Computer Science*, volume 8158, 2013, 372-380, Springer, ISSN 0302-9743, ISBN 978-3-642-41189-2, DOI 10.1007/978-3-642-41190-8, SJR = 0.332
4. Dichev, Ch., D. Dicheva, G. Agre, G. Angelova. Current Practices, Trends and Challenges in K-12 Online Learning. *Cybernetics and Information Technologies*, Vol. 13, № 3, Sofia, 2013, 91-110, ISSN 1311-9702, SJR = 0.101
5. Dimov, I. T., K. Atanassov. Interpretation of a Monte Carlo Approach of a Finite Difference Scheme by a Game Method for Modelling. In: *Proc. Jangjeon Math. Soc.* 16 (3), 2013, 381-388, ISSN: 1598-7264, SJR = 0.363
6. Dimov, I. T. R., Georgieva, Tz. Ostromsky, Z. Zlatev. Variance-based Sensitivity Analysis of the Unified Danish Eulerian Model According to Variations of Chemical Rates. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 247 – 254. ISSN: 0302-9743, SJR (2012) = 0.332
7. Doukovska L., S. Vassileva. Knowledge-based Mill Fan System Technical Condition Prognosis, *Journal of the World Scientific and Engineering Academy and Society. WSEAS Transactions on Systems, Special Issue on Knowledge-based Modeling and Control of Multi-factorial Processes*, 398-408, 2013, Print ISSN 1109-2777, E-ISSN 2224-2678, SJR = 0.266
8. Fidanova S. Application of HPD Model for Predicting Protein Mutations. *Cybernetics and Information Technologies* 13 (4), 2013, 95 – 103, ISSN: 1311-9702, SJR = 0.101
9. Fidanova, S., P. Marinov. Ant Colony Optimization Start Strategies Performance According Some of the Parameters. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.). *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, 287-294, ISSN: 0302-9743, SJR = 0.332
10. Ganzha, M., Ivan Lirkov, Marcin Paprzycki, Comparative analysis of high performance solvers for solving Stokes equation, *Application of Mathematics in Technical and Natural Sciences, AMiTaNS 2013*, Michail D. Todorov ed., *AIP Conference Proceedings*, 1561, 347–354, 2013. ISBN 978-0-7354-1189-0, SJR = 0.161
11. Hristov V, G. Agre. A Software System for Classification of Archaeological Artefacts Represented by 2D Plans. *Cybernetics and Information Technologies*, Vol. 13, № 2, Sofia, 2013, 82-96, ISSN 1311-9702, SJR = 0.101.
12. Hristova, R., G. Goranov, User-level Framework for Performance Monitoring of HPC Applications, *AMITANS 2013, AIP Conference Proceedings*, 1561, 144-152, 2013, doi: 10.1063/1.4827223, ISBN 978-0-7354-1189-0, SJR = 0.161.
13. Kirilov L., Guliashki V., Genova K., Vassileva M., Staykov B. Generalized scalarizing model GENS in DSS WebOptim. *International Journal of Decision Support System Technology*, Vol. 5, Issue 3, 2013, 1-11, ISSN: 1941-6296, SJR = 0.100
14. Koprinkova-Hristova, P., Oubbati, M., Palm, G., Heuristic dynamic programming using echo state network as online trainable adaptive critic, *International Journal of Adaptive*

Control and Signal Processing, vol.27, Issue 10, 902–914, October 2013, ISSN: 0890-6327, DOI: 10.1002/acs.2364, SJR = 1.063

15. Koprinkova-Hristova, P., Tontchev, N., Popova, S., Two approaches to multi-criteria optimization of steel alloys for crankshafts production, *International Journal of Reasoning-based Intelligent Systems, Special Issue on: "Innovations of intelligent systems and engineering"*, vol. 5, No2, 2013, 96-103. ISSN: 1755-0556. DOI: 10.1504/IJRIS.2013.057271, SJR = 0.112
16. Koprinkova-Hristova, P., Alexiev, K., Borisova, D., Jelev, G., Atanasov, V., Recurrent neural networks for automatic clustering of multispectral satellite images, SPIE Remote sensing, Sept. 23-26, 2013, Dresden, Germany, *Proceedings of SPIE, vol. 8892, Image and Signal Processing for Remote Sensing XIX*, Editor(s): Lorenzo Bruzzone, 88920X, October 17, 2013, ISSN: 0277-786X, doi:10.1117/12. ISBN: 9780819497611, SJR = 0.216.
17. Koprinkova-Hristova, P., Alexiev, K., Echo State Networks in Dynamic Data Clustering, Artificial Neural Networks and Machine Learning – ICANN 2013, *Lecture Notes in Computer Science*, Eds.: Mladenov, V., Koprinkova-Hristova, P., Palm, G, Villa, A.E.P., Appollini, B., Kasabov, N., vol.8131, 2013, 343-350, ISSN: 0302-9743, ISBN: 978-3-642-40727-7, DOI: 10.1007/978-3-642-40728-4, SJR = 0.332
18. Kosturski, N., S. Margenov, Y. Vutov, Computer Simulation of RF Liver Ablation on an MRI Scan Data, *AIP Conf. Proc.* 1487, 2013, 120-126, ISSN: 0094-243X, SJR = 0.161
19. Kotev V., Boiadjev G., Kawasaki H., Mouri T., Delchev K., Boiadjev T., A Design Concept of an Orthopedic Bone Drilling Mechatronics System, 2nd Int. Conf. on Mechanical Engineering and Materials, Jan. 27-28, 2013, Sanya, China, *Int. Journal Applied Mechanics and Materials*, Vol. 302, 2013, 248-251, Trans Tech Publications, Switzerland, doi:10.4028 /www.scientific.net/AMM.302.248, ISSN 1660-9336, SJR = 0.125.
20. Minchev, Z.. 2D vs 3D Visualization & Social Networks Entertainment Games. A Human Factor Response Case Study, In: Proceedings of 12th International Conference, ICEC 2013, São Paulo, Brazil, October 16-18, 2013 (Editors: Junia C. Anacleto, Esteban W. G. Clua, Flavio S. Correa da Silva, Sidney Fels, Hyun S. Yang), *Lecture Notes in Computer Science*, Vol. 8215 2013, 107-113, ISBN 978-3-642-41105-2 (Print) 978-3-642-41106-9 (Online), SJR = 0.332
21. Nikolova, I., G. Angelova, D. Tcharaktchiev and S. Boytcheva. Medical Archetypes and Information Extraction Templates in Automatic Processing of Clinical Narratives, In Proceedings of ICCS 2013, 10-12 January, Mumbai, India, Conceptual Structures for STEM Research and Education, Springer, *Lecture Notes in Computer Science Volume 7735*, 2013, 106-120, ISSN 0302-9743, SJR = 0.332
22. Ostromsky, Tz., I. T. Dimov, R. Georgieva, P. Marinov, Z. Zlatev. High Performance Computing of Data for a New Sensitivity Analysis Algorithm, Applied in an Air Pollution Model. In: I. T. Dimov, I. Faragó, and L. Vulkov (Eds.) Proceedings of NAA 2012, *LNCS 8236*, Springer, 2013, 428 – 436, ISSN: 0302-9743, SJR = 0.332.
23. Ostromsky, Tz., I. T. Dimov, R. Georgieva, P. Marinov, Z. Zlatev. Sensitivity Study of a Large-Scale Air Pollution Model by Using High-Performance Computations and Monte Carlo Algorithms. In: Proceedings of Fifth International Conference AMiTaNS'13, June 24 - 29, 2013, Albena, Bulgaria, *AIP Conf. Proceedings* 1561, 2013, 153 – 163. ISSN: 0094-243X; ISBN: 978-0-7354-1189-0. Doi: 10.1063/1.4827224, SJR = 0.161.

24. Petrova-Antonova D., S. Ilieva, V. Stoyanova, I. Manova, V. Pavlov. An Automated Approach for Fault Injection Testing of BPEL Orchestrations. Proceeding of the 17th Conference on European Systems & Software Process Improvement and Innovation (EuroSPI'2013), June 25-27 2013, Dundalk, Ireland, F. McCaffery et al. (Eds.): Systems, Software and Services Process Improvement 2013, *Communications in Computer and Information Science*, Vol. 364, Springer, Heidelberg, 84-95, ISBN: 978-3-642-39178-1, SJR = 0.140.
25. Radeva I. Multi-Criteria Models for Cluster Design, *Cybernetics and Information Technologies*, vol. 13, №1, 18-33, 2013, ISSN 1311-9702, SJR = 0.101.
26. Savov S., I. Popchev. Experimental Study of Lyapunov Equation Solution Bounds for Power Systems Models, *Cybernetics and Information Technologies*, vol. 13, №1, 3-12, 2013, ISSN 1311-9702, SJR = 0.101.
27. Stoilova, K., T. Stoilov, K. Nikolov. Autonomic Properties in Traffic Control. *Cybernetics and Information Technology*, No4, 2013, 18-32, ISSN 1311-9702, SJR = 0.101.
28. Sviercoski, R.F., S. Margenov, Displacement decomposition ACO based preconditioning of FEM elasticity systems, *AIP Conf. Proc.* 1561, 2013, 112-119, DOI: 10.1063/1.4827220, ISSN: 0094-243X, SJR = 0.161
29. Todorov Y., M. Terziyska, M. Petrov. Recurrent Fuzzy-Neural Network with fast learning algorithm for predictive control, In: Proceedings of International Conference on Artificial Neural Networks ICANN' 2013, (Eds. V. Mladenov et al.,), *Lecture Notes on Computer Science*, vol. 8131, 459-466, Springer, 2013, ISBN 987-3-642-40727-7. SJR = 0.332
30. Trichkova, E., K. Stoilova. An Approach for Quality Assessment and Effectiveness of a Web-Based System for Distance Learning. *Cybernetics and Information Technology*, No4, 2013, 63-73, ISSN 1311-9702, SJR = 0.101.
31. Wasielewska, K., M. Ganzha, M. Paprzycki, I. Lirkov, Developing Ontological Model of Computational Linear Algebra - Preliminary Considerations, Application of Mathematics in Technical and Natural Sciences, AMiTaNS 2013, Michail D. Todorov ed., *AIP Conference Proceedings*, 1561, 133–143, 2013. ISBN 978-0-7354-1189-0, SJR = 0.161
32. Zlatev, Z., K. Georgiev, Applying approximate LU-factorizations as preconditioners in eight iterative methods for solving systems of linear algebraic equations, *Cent. Eur. J. Math.* 11(8), 2013, 1510-1530, ISSN: 1895-1074, DOI: 10.2478/s11533-013-0248, SJR = 0.513

1.2.3. Списък на публикациите, които са индексирани в Web of Science или SCOPUS (57)

1. Ahmed, S., M. Nedjalkov, D. Vasileska. Comparative Study of Various Self-Consistent Event Biasing Schemes for Monte Carlo Simulations of Nanoscale MOSFETs. In: *Theory and Applications of Monte Carlo Simulations*, V. Chan (ed.). Intech Open Access Publisher, 2013, 109 – 133, ISBN: 978-953-51-1012-5. Doi: 10.5772/53113
2. Alexiev, K., I. Nikolova, An Algorithm for Error Reducing in IMU, *2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, 19-21 June 2013, Albena, Bulgaria, IEEE Xplore®, 1-6, ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577663
3. Amoroso, S., L. Gerrer, A. Asenov, J. M. Sellier, I. T. Dimov, M. Nedjalkov, S. Selberherr. Quantum Insights in Gate Oxide Charge-Trapping Dynamics in Nanoscale

- MOSFETs. In: *Proceedings of the 18th International Conference on Simulation of Semiconductor Processes and Devices*, 2013, 25 – 28, ISBN: 978-1-4673-5733-3.
4. Angelova, G. Automatic information extraction from patient records in Bulgarian Language. Keynote Lecture at CompSysTech 2013, Ruse, In: *Proceedings of CompSysTech-2013*, 11-14, ACM New York, NY, USA ©2013, ISBN: 978-1-4503-2021-4.
 5. Angelova, D., L. Mihaylova, N. Petrov, A. Gning, A Convolution Particle Filtering Approach for Tracking Elliptical Extended Objects, *Proceedings of the International Conf. on Information Fusion*, Istanbul, Turkey, 2013, 1542-1549, IEEE 2013 ISBN 978-605-86311-1-3.
 6. Ardis M., S. Bohner, L. Camilloni, D. Vallespir, S. Ilieva. Using GSWE2009 in the Creation and Modification of Graduate Software Engineering Programs and Related Curricula, In: *Proc. of CSEE&T 2013*, San Francisco, CA, USA, 19-21 May 2013, IEE Explore, 109 – 118, ISSN 1093-0175.
 7. Atanassova V., S. Fidanova, I. Popchev, P. Chountas. Chapter 5: Generalized Nets, ACO Algorithms, and Genetic Algorithms, In: (Sabelfeld, K., I. Dimov, Eds.), *Monte Carlo Methods and Applications, Proceedings of the 8th IMACS Seminar on Monte Carlo Methods*, Borovets, Bulgaria De Gruyter, 39-46, 2013, eBook ISBN 9783110293586.
 8. Atanassov, E. M. Durchova, Generation of the Scrambled Halton Sequence Using Accelerators, In: *Proceedings of the 36th International Convention MIPRO 2013*, IEEE, 197-201, ISSN: 1847-3946.
 9. Atanassov, E., T. Gurov, A. Karaivanova, Message Oriented Framework with Low Overhead for Efficient High-Performance Monte Carlo Simulations, In: *Proceedings of the 36th International Convention MIPRO 2013*, IEEE, 189-191, ISSN: 1847-3946.
 10. Atanassov, E., S. Ivanovska, Computation and Analysis of Sobol Coefficients for Air Pollution Concentrations over the Territory of Bulgaria, In: *Proceedings of the 36th International Convention MIPRO 2013*, IEEE, 254-257, ISSN: 1847-3946.
 11. Behar, V., Chr. Kabakchiev, I. Garvanov, Simple Algorithms for Target Detection in FSR using Local Statistics, *Proc. of the 14th Intern. Radar Symposium ISR'2013*, June 19-21, 2013, Dresden, Germany, 631-636, ISBN: 978-3-95404-223-4
 12. Behar, V., Chr. Kabakchiev, I. Garvanov. Sound Source Localization in a Security System using a Microphone Array, *Proc. of the 2nd Intern., Conf. on Telecommunications & Remote Sensing - ICTRS'2013*, 11-12 July, 2013, 85-94, Noordwijkerhout, the Netherlands, ISBN: 978-989-8565-57-0
 13. Boiadjiev G., Kotev V., Delchev K., Boiadjiev T., Modeling and Development of a Robotized Hand-Hold Bone Cutting Device OCRO, Int. Conf. ICMAM 2012, Dec. 5-6, Hong Kong, *Int. Journal Applied Mechanics and Materials*, Vols 300-301, 2013, 479-483, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/ AMM.300-301.479, ISSN 1662-7482
 14. Boiadjiev G., Kotev V., Zagurski K., Delchev K., Boiadjiev T., Kastelov R., Robotized System for Bone Drilling and Cutting in Orthopedic Surgery, *Int. Journal Advanced Materials Research*, Vol 740, 2013, 92-98, Trans Tech Publications, Switzerland, doi:10.4028 /www.scientific.net/ AMR.740-92, ISSN 1662-8985
 15. Borissova D., I. Mustakerov. A concept of intelligent e-maintenance decision making system. In: *Proc. of IEEE International Symposium on Innovations in Intelligent Systems*

- and Applications (INISTA)*, 19-21 June 2013, Print ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577668
16. Boshnakov K., L. Doukovska, E. Mihailov, V. Petkov, S. Vassileva, S. Kojnov. Predictive Maintenance Model-Based Approach for Objects Exposed to Extremely High Temperatures, In: *Proceedings of the Signal Processing Symposium – SPS'13*, Jachranka Village, Poland, art. no. 6623621, IEEE, 2013, ISBN 978-1-4673-6319-8-13-2013.
 17. Dezert, J., Tchamova, A., Han, D., Tacnet, J. Why Dempster's rule doesn't behave as Bayes rule with informative priors , *IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, Albena, Bulgaria, 19-21 June, 2013, 1-5, Print ISBN:978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577631
 18. Dimitrov S., T.Stoilov. Loading Test of the Apache HTTP Server by videofile and usage measurements of the hardware components. *Proceedings of the International Conference Computer Systems and Technologies, CompSysTech'13*, 28-29 June 2013, Russe., ACM Conference Proceeding Series, 59-66, ISBN: 978-1-4503-2021-4.
 19. Dimov, I. T., R. Georgieva. Multidimensional Sensitivity Analysis of Large-scale Mathematical Models. O.P. Iliev et al. (eds.), *Numerical Solution of Partial Differential Equations: Theory, Algorithms, and Their Applications, Springer Proceedings in Mathematics & Statistics 45*, Springer Science+Business Media, New York, 2013, 137 – 156. ISBN: 978-1-4614-7171-4 (Print) 978-1-4614-7172-1 (Online). DOI 10.1007/978-1-4614-7172-1 8.
 20. Dimov, D., S. Nedkov, Emotion Recognition by Face Dynamics, *CompSysTech'13 Proceedings of the 14th International Conference on Computer Systems and Technologies*, ACM ICPS Vol. 767, ACM Inc., NY, USA, 2013, 128-136, ISBN: 978-1-4503-2021-4
 21. Elvesæter B., Benguria G., and Ilieva S., A Comparison of the Essence 1.0 and SPEM 2.0 Specifications for Software Engineering Methods, In: *Proc. of the Third Workshop on Process-based approaches for Model-Driven Engineering (PMDE 2013)*, Montpellier, France, 2013. ACM, art.n. 2, ISBN: 978-1-4503-2047-4 doi>10.1145/2489833.2489835.
 22. Fidanova S., Roeva O., Ganzha M., ACO and GA for Parameter Settings of E.coly Fed-Batch Cultivation Model, In: *Recent Advancece in Computational Optimizattion, Studies in Computational Intelligence 470*, S. Fidanova (editor), Book chapter 4, Springer, 2013, 51 – 71, ISBN: 978-3-319-00409-9.
 23. Garvanov , Chr. Kabakchiev ,V. Behar, Sound Parameter Estimation in a Security System, *Proc. of the 2nd Intern., Conf. on Telecommunications & Remote Sensing - ICTRS'2013*,11-12 July, 2013, 140-144, Noordwijkerhout, the Netherlands, ISBN: 978-989-8565-57-0
 24. Gerdjikov, S., Mihov, S., Mitankin, P., Schulz, K.U., WallBreaker - Overcoming the wall effect in similarity search. In: *Proceeding EDBT '13, Proceedings of the Joint EDBT/ICDT 2013 Workshops*, 366-369, ACM, ISBN: 978-1-4503-1599-9, doi 10.1145/2457317.2457385
 25. Gerdjikov, S., Mihov, S., Nenchev, V., Extraction of Spelling Variations from Language Structure for Noisy Text Correction, In: *12th International Conference on Document Analysis and Recognition (ICDAR)*, 2013, 324 - 328, ISSN: 1520-5363, DOI: 10.1109/ICDAR.2013.72
 26. Kabakchiev, Chr., I. Garvanov, V. Behar, H. Rohling. The Experimental Study of Possibility for Radar Target Detection in FSR using L1-Based Non-Cooperative

- Transmitter, *Proc. of the 14th Intern. Radar Symposium ISR'2013*, June 19-21,2013, Dresden, Germany, 625-630, ISBN: 978-3-95404-223-4
27. Kabakchiev, Chr., I. Garvanov, V. Behar, A. Lazarov , H. Rohling, The Experimental Study of Target FSR Shadow Detection using GPS Signals, *Proc. of the 3rd Intern. Symposium on Radio Systems and Space Plasma –ISRSSP'2013*, 28-29 August, 2013, Sofia, Bulgaria, 64-73, ISBN: 978-619-90124-1-3
28. Kabakchieva, D., Chr. Kabakchiev, V. Behar, I. Garvanov, FSR Marine Target Classification with Data Mining Approach, *Proc. of the 2nd Intern., Conf. on Telecommunications & Remote Sensing - ICTRS'2013*, 11-12 July, 2013, Noordwijkerhout, the Netherlands, 145-152, ISBN: 978-989-8565-57-0
29. Karastoyanov, D., V. Monov, T. Penchev, New type electromagnetic drive for Braille screen, In: *Proceedings of the Third International IEEE Conference on Information Science and Technology*, March 23-25 2013, Yangzhou, Jiangsu, China, 178-182, ISBN 978-1-4673-5137-9.
30. Koprinkova-Hristova P., L. Doukovska, P. Kostov. Working Regimes Classification for Predictive Maintenance of Mill Fan Systems, In: *Proceedings of the International Symposium on INnovations in Intelligent SysTems and Applications – INISTA'13*, CD, IEEE, 2013, ISBN 978-1-4799-0661-1-13-2013.
31. Koprinkova-Hristova, P., Angelova, D., Borisova, D., Jelev, G., Clustering of spectral images using Echo state networks, *2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications, IEEE INISTA 2013*, June 19-21, Albena, Bulgaria, ISBN: 978-147990661-1, DOI: 10.1109/INISTA.2013.6577633
32. Kotev V., Boiadjiev G., Kawasaki H., Mouri T., Delchev K., Boiadjiev T., A Design Concept of an Orthopedic Bone Drilling Mechatronics System, 2nd Int. Conf. on Mechanical Engineering and Materials, Jan. 27-28, 2013, Sanya, China, *Int. Journal Applied Mechanics and Materials*, Vol. 302, 2013, 248-251, Trans Tech Publications, Switzerland, doi:10.4028 /www.scientific.net/AMM.302.248, ISSN 1660-9336.
33. Kraus, J., M. Lymbery, S. Margenov. Robust algebraic multilevel preconditioners for anisotropic elliptic problems. *Springer Proceedings in Mathematics and Statistics*. Vol. 45, 217-246, 2013. doi=10.1007/978-1-4614-7172-1_12. ISSN 2194-1009.
34. Manova D., Petrova-Antonova D., S. Ilieva. Testing web service's compositions following TASSA methodology *International Conference on Computer Systems and Technologies (CompSysTech 2013)*, Rousse, Bulgaria, June 28-29, 2013, 185-192, ACM New York, NY, USA ©2013, ISBN: 978-1-4503-2021-4
35. Mihaylova, D. Angelova, A. Zvikhachevskaya, Sequential Monte Carlo Methods for Localization in Wireless Networks, *Chapter 4 in Advances in Intelligent Signal Processing and Data Mining*, P. Georgieva, L. Mihaylova, L. Jain, Editors, Springer-Verlag, 2013, 89-119, ISBN: 978-3-642-28695-7, e-ISBN: 978-3-642-28696-4.
36. Monov, V., D. Karastoyanov, T. Penchev, Advanced control methods and technologies for two industrial processes, In: *Proceedings of the Third International IEEE Conference on Information Science and Technology*, March 23-25 2013, Yangzhou, Jiangsu, China, 187-194, ISBN 978-1-4673-5137-9.
37. Mustakerov I., D. Borissova. An intelligent approach for optimum maintenance strategy defining. In: *Proc. of 2013 IEEE International Symposium on Innovations in Intelligent*

Systems and Applications (INISTA), 19-21 June 2013, Print ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577666.

38. Nikolova, I., I. Temnikova and G. Angelova. Enriching Patent Search with External Keywords: a Feasibility Study. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.) *Proceedings of the International Conference Recent Advances in Natural Language Processing (RANLP 2013)*, September 7-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 525-531, ISSN 1313-8502.
39. Pencheva T., O. Roeva, V. Atanassova, M. Angelova. Generalized Net Model of the lac Operon, *Issues in Intuitionistic Fuzzy Sets and Generalized Nets*, EXIT Press, Warsaw, vol. 11, 75-84, 2013, ISBN 978-83-61551-08-9.
40. Penchev, T., D. Karastoyanov, V. Monov, Control system for “Controlled impact laboratory device, In: *Proceedings of the Third International IEEE Conference on Information Science and Technology*, March 23-25 2013, Yangzhou, Jiangsu, China, 215-218, ISBN 978-1-4673-5137-9.
41. Penchev T., Karastojanov D., Altaparmakov I., Experimental Study on “Controlled Impact” Effect in Plastic Deformation Processes., *Advanced Materials Research* Vol. 772, 2013, 3-8, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.772.3, ISSN: 1662-8985
42. Petrova-Antonova D., S. Ilieva, V. Stoyanova. TESSI: A Web Service Testing Tool, *Proceedings of the 7th IEEE International Conference on Research Challenges in Information Science*, May 29-31 2013, Paris, France, 665-666, IEEE ISBN 978-1-4673-2914-9/13
43. Petrov, N., L. Mihaylova, A. Gning, D. Angelova, Group Object Tracking with a Sequential Monte Carlo Method Based on a Parameterised Likelihood Function, *Chapter 19 in Proceedings from the 8th IMACS Seminar on Monte Carlo Methods and Applications*, Editors K. K. Sabelfeld, I. Dimov, De Gruyter GMBH, 69-77, 2013, ISBN 978-3-11-029358-6
44. Roeva O., Fidanova S., Paprzycki M., Influence of the Population Size on the Genetic Algorithm Performance in Case of Cultivation Process Modelling. In: *Proc. of FedCSIS 2013, IEEE Xplorer*. 2013, 371 – 376, ISSN: 2300-5963. ISBN: 978-1-4673-4471-5, IEEE Catalog Number: CFP1385N-ART.
45. Schwaha, P., J. M. Sellier, M. Nedjalkov, I. T. Dimov, S. Selberherr. The Ultimate Equivalence Between Coherent Quantum and Classical Regimes. *Proceedings of the 16th International Workshop on Computational Electronics*, 2013, 152-153, ISBN: 978-3-901578-26-7.
46. Sellier, J. M., M. Nedjalkov, I. T. Dimov, S. Selberherr. Two-dimensional Transient Wigner Particle Model. *Proceedings of the 18th International Conference on Simulation of Semiconductor Processes and Devices*, 2013, 404 – 407, ISBN: 978-1-4673-5733-3.
47. Sgurev V., L. Doukovska, S. Drangajov, V. Nikov. Network Flow Interpretation of Innovation Processes and Risks, In: *Proceedings of the Signal Processing Symposium – SPS’13*, Jachranka Village, Poland, art. no. 6623603, IEEE, 2013, ISBN 978-1-4673-6319-8-13-2013.
48. Stavru S., I. Krasteva, S. Ilieva, Challenges of Model-Driven Modernization: An Agile Perspective, In: *Proceedings of the 1st International Conference on Model-Driven*

Engineering and Software Development, MODELSWARD 2013, Barcelona, Spain, 19-21 February 2013, 219-230, ISBN: 978-989856542-6, DOI: 10.5220/0004317502190230

49. Stoyanova V., D. Petrova-Antonova, S. Ilieva. Automation of Test Case Generation and Execution for Testing Web Service Orchestrations, In: *Proceedings of the 7th IEEE International Symposium on Service Oriented System Engineering, (SOSE'2013)*. San Francisco Bay, March USA, 25-28, 2013, 274-279, ISBN: 978-076954944-6, DOI 10.1109/SOSE.2013.9
50. Staykov B., T. Atanasova, V. Monov, L. Doukovska. The ERP Systems in Modern Business and Corporate Management, In: *Proceedings of the International Symposium on Business Modeling and Software Design – BMSD'13*, Noordwijkerhout, The Netherlands, 281-285, 2013, ISBN 978-989-8565-56-3.
51. Strandjev, B., G. Agre. On applicability of Principal Component Analysis to concept learning from images. 2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), 9-21 June 2013, Albena, Bulgaria, *IEEE Xplore*, 1-5, ISBN 978-1-4799-0659-8, DOI: [10.1109/INISTA.2013.6577623](https://doi.org/10.1109/INISTA.2013.6577623).
52. Tashev, T., Monov, V. A Computer Modeling of the Throughput of a Crossbar Switch by PI-Patterns for Uniform Traffic with Variable Intensity. In: *Proceedings of the 14-th International Conference on Computer Systems and Technologies CompSysTech'13*, 28-29 June 2013, Ruse, Bulgaria. ACM PRESS, New York, NY, USA, ACM ICPS Volume 767, 2013, 53-58. ISBN: 978-1-4503-2021-4.
53. Tchamova, A., Dezert, Jean. Tracking applications with fuzzy-based fusion rules, *IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, Albena, Bulgaria, 19-21 June 2013, 1-5, Print ISBN: 978-1-4799-0659-8, DOI: 10.1109/INISTA.2013.6577630
54. Temnikova, I., N. D. Hailu, G. Angelova, K. B. Cohen. Measuring Closure Properties of Patent Sublanguages. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.), *Proc. of the Int. Conf. on Recent Advances in Natural Language Processing (RANLP 2013)*, September 07-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 659-666, ISSN 1313-8502.
55. Temnikova, I., I. Nikolova, W. A. Baumgarther, G. Angelova, K. B. Cohen. Closure Properties of Bulgarian Clinical Text. In: Angelova, G., K. Bontcheva, and R. Mitkov (Eds.), *Proc. of the Int. Conf. on Recent Advances in Natural Language Processing (RANLP 2013)*, September 07-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 667-675, ISSN 1313-8502.
56. Todorov Y., M. Terziyska, S. Ahmed, M. Petrov. Fuzzy-Neural Predictive Control using Levenberg-Marquardt optimization approach, In: *Proceedings of International IEEE conference on Innovations in Intelligent Systems and Applications, INISTA'2013*, Albena, Bulgaria, IEE Explore, 1-5, 2013, ISBN 978-1-4799-0659-8.
57. Zhikov, Valentin, Georgiev, Georgi, Simov, Kiril, Osenova, Petya. Combining POS Tagging, Dependency Parsing and Coreferential Resolution for Bulgarian. In: (Angelova, G., K. Bontcheva, and R. Mitkov, Ed.). *Proceedings of the International Conference Recent Advances in Natural Language Processing (RANLP 2013)*, September 7-13, 2013, Hissar, Bulgaria, Incoma Ltd., Shoumen, Bulgaria, 2013, 755-762, ISSN 1313-8502

1.3. Списък на публикациите без рефериране и индексиране в световната система за рефериране, индексиране и оценяване (в световни вторични литературни източници) (70)

1. Ahmed S., M. Petrov, A. Taneva, Y. Todorov. Nonlinear model predictive control of an evaporator system using fuzzy-neural observer, In: *Proceedings of the International conference on Food Science, Engineering and Technologies'2013*, University of Food Technologies - Plovdiv, Bulgaria, vol. LX, 57-62, 2013, ISSN 1314-7102.
2. Altaparmakov I., Isaev G., Simulating the processes of plastic deformation with Finite Elements impact load, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 123-126, ISSN 1314-4634
3. Andreev, A., M. Balev, P. Ivanov, M. Racheva. On the Polynomial Spaces of Rectangular Morley Elements, *International Conference UNITECH 2013*, Vol. 2, 402-405, 2013, Gabrovo, ISSN 1313-230X.
4. Аргиров, Х., Лазарова, Р., Гончев, Н., Копринкова-Христова, П., Лукарски, Я., Разработване на нови марки икономично легирани стомани за автомобилното машиностроене, Сборник материали с докладите от Трета Нац. Конф. с международно участие „Металознание, Хидро- и Аеродинамика, Национална Сигурност'2013”, 24-25 окт. 2013, София, 129-133, ISSN 1313-8308.
5. Atanasova, T., Integration of Heterogeneous Data and Processes in Digital Home, In: *Proc. of the International Conference Robotics, Automation and Mechatronics'13 RAM 2013*, 8-10 October 2013, Bankya, Bulgaria, 20-24, ISSN 1314-4634.
6. Atanassov, E. Development of Grid Services using Erlang, *CSIT2013 Conference*, Yerevan, Armenia, September 23-27, 2013, 286-289, ISBN: 978-5-8080-0797-0.
7. Atanassov, E., M. Dechev, G. Petrov, A. Karaivanova, T. Gurov, M. Durchova, HPC Cluster with GPGPU Capabilities. Performance and Features Evaluation, *Proceedings of the VIII Serbian-Bulgarian Astronomical Conference (VIII SBAC)*, No 12, 2013, 105-111, ISBN: 978-89035-02-5.
8. Balabosov I., Georgiev V., Hinov K., Karastoyanov D., Yatchev I., Influence of Different Geometric Parameters on the Static Force Characteristics of an Electromagnetic Actuator for Braille Screen., *International Symposium on Theoretical Electrical Engineering ISTET 2013*, June 24-26 2013, IV-39 – IV 42, Pilsen, Czech Republic, ISBN 978-80-261-0246-5
9. Bakanova, N., T. Atanasova, Data sources determination for information management in omis, *Proc. of the International Conference Robotics, Automation and Mechatronics'13 RAM 2013*, 8-10 October 2013, Bankya, Bulgaria, 25-28, ISSN 1314-4634.
10. Баканова, Н., Баканов, А., Ташев, Т. Програмный комплекс оценки управленческой деятельности с использованием оборудования отслеживающего траекторию движения глаз пользователя. *Материалы 7-ой Международной конференции „Управление развитием крупномасштабных систем MLSD'2013”*. 30 Сентября-2 Октября 2013, Москва, Россия. Том 2. ИПУ РАН, Москва, Россия, 297-299, ISBN 978-5-91450-138-6.
11. Бонева А., З. Илчева, С. Ангелов, Д. Бъчваров, Д. Георгева, П. Гугутков, Н. Барух, М. Михов, Г. Исаев, Йо. Дошев, И. Стоянов, Апаратни и програмни средства

- използвани за изграждане на комуникационна среда в проект БПМИО, *Сборник от доклади от международна конференция „RAM 2013“*, 17.10.2013, гр. София, 76-82, ISSN 1314-4634.
12. Боянов Л., „Образованието в дигиталното общество”. *Трудове на Международна научна конференция „Техника, технологии и образование“ ICTTE 2013*, Тракийски университет, Факултет „Техника и технологии“, 30 - 31 октомври 2013, 532-538, ISSN 1314-9474.
 13. Бъчваров Д., А. Бонева, Б. Киров, Йо. Бонева, Г. Станев, Н. Барух, Система за обработка на първичната информация от прибори LP и DP - проект “Обстановка”, *Сборник от доклади от международна конференция „ RAM 2013”*, 17.10.2013, гр. София, 83-89, ISSN 1314–4634.
 14. Димитров Ст., Тест за натоварване на Apache HTTP Server чрез различни видове файлове и измерване използването на хардуерните компоненти, *Първа национална тематична школа и борса за научни идеи в областта на информационните и комуникационните технологии*, Русе, 27-28 юни 2013, 212-217, ISSN 1314-9024
 15. Димитров Ст., Информационна система за електронен абонамент на научно списание, International Workshop Autonomic Computing and Automatic Control in Computer Systems. *Международна конференция „Автоматика и информатика” 2013* София, 3-7 Октомври 2013, I-185 - I-188, ISSN 1313-1850
 16. Dimov, D., and M. Dimitrijevic, Image Processing Suggestions to Improve the Astronomical Multiexposure Wide Plates Method, In: M. Dmitrievich, M. Tzvetkov (Eds.) *Proceedings of VIII Serbian-Bulgarian Astronomical Conference*, May 08-12, 2012, Leskovac, Serbia, 219-238, ISBN 978-8689035-02-5, Publ. Astron. Soc. “Rudjer Boskovic”, No.12,1-413 Belgrade, June 2013.
 17. Fidanova S., Marinov P., Field Fire Simulation Applying Hexagonal Game Method, In *Proc. of Information System and Grid Technology International Conference*, Sofia, Bulgaria, 2013, 201- 209, ISSN: 1314-4855.
 18. Guliashki V., Genova K., Kirilov L., Hybrid Evolutionary Algorithm for Integer Multiple-Objective Optimization Problems, In: *Proceedings of Papers of the XLVIII International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST2013*, (Editor Prof. Dr. Mitrovski, C.), June 26 – 29, 2013, Ohrid, Macedonia, vol. 1, 253-256, ISBN: 978-9989-786-90-7.
 19. Guliashki V., Korsemov C., Toshev H., Kirilov L. and Genova K., Optimal Design of Elements in Confirmation of Panel Buildings, In: *Proceedings of Papers of the XLVIII International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST2013*, (Editor Prof. Dr. Mitrovski, C.), June 26 – 29, 2013, Ohrid, Macedonia, vol. 2, 555-558, ISBN: 978-9989-786-90-7.
 20. Ilchev V., Zl. Ilcheva. Some Basic Properties of the Best Deviding Hyperplanes in the Problems of Classification. In: *Proceedings of International Conference “Automatics and Informatics ’13”*, 4 -7 October , 2013, Sofia, SAI, Sofia, 2013, I-275 – I-278, ISSN: 1313-1850.
 21. Ilchev V., Zl. Ilcheva. Some Basic Properties of the Best Deviding Hyperplanes in the Problems of Classification. *Proceedings of International Conference Automatics and*

- Informatics '13*, 4 -7 October 2013, Sofia, SAI, Sofia, 2013, I-275 – I-278, ISSN 1313-1869.
22. Ivanov R., Vasil Georgiev. Models of Quality for Cloud Services, *Proceedings of the 7th International Conference on Information Systems and Grid Technologies*, Sofia, Bulgaria, 30 May. – 1 June, 2013, 248-254, ISSN 1314-4855.
 23. Иванов Вл. „Универсална апаратна среда за развой с препрограмируеми прибори”, *Сб. трудове на НМШ*, Русе, 2013, 35-40, ISSN 1314-9024.
 24. Kandeва M., Sokolov B., Ivanova B., Pojidaeva V., Stoenchev S., C. Agalarev C., Influence of Nano-Diamond Particles on the Tribological Characteristics of Nickel Chemical Coatings, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, 5-11, Bankya, Bulgaria, ISSN 1314-4634
 25. Kirilov L., Genova K., Guliashki V., Zhivkov P., Interactive Environment for Solving Multiple Objective Programming Problems GENS-IM, In: *Proceedings of Papers of the XLVIII International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST2013*, (Editor Prof. Dr. Mitrovski, C.), June 26 – 29, 2013, Ohrid, Macedonia, vol. 1, 179-182, ISBN: 978-9989-786-90-7.
 26. Колев В., Компресия на цифрови изображения с ниски загуби, *Научна Конференция, Математика информатика и физика*, том 51, серия 6.1, 28–33, Русе, 2013, ISSN 1311-3321.
 27. Койнов, Ст., Л. Дуковска. Интегриран подход за предсказващо поддържане в МСП, *Трудове на 21-ви Международен симпозиум „Управление на топлоенергийни обекти и системи”*, Банкя, България, 55-59, 2013, ISSN 1313-2237.
 28. Kolchakov, K., Comparative Analysis of Class Algorithms for Non-Conflict Schedule in Switching Nodes, In: *Proceeding of 17-th International Conference on Distributed Computer and Communication Networks (DCCN-2013): "Control, Computation, Communications"*, Moscow, October 07-10, 2013, 172-179, ISBN 978-5-94836-366-0.
 29. Kolchakov K. Non-conflict schedule through finite automats in switching nodes. In: *Proc. of the International Conference Automatics and Informatics '13*, 03-07.10.2013, Sofia, Bulgaria, I-191 – I-194, ISSN 1313 – 1850.
 30. Kolchakov K, Monov V. An Algorithm for Non – Conflict Schedule with Diagonal Activation of Joint Sub Matrices, In: *Proc. of the 17-th International Conference on Distributed Computer and Communication Networks, (DCCN-2013): "Control, Computation, Communications"*, Moscow, October 07-10, 2013, 180-187, ISBN 978-5-94836-366-0.
 31. Kolchakov K., V. Monov. An Approach for Hardware Solution of the Conflicts Problem in Switching Nodes. In: *Proc. of the International Conference Robotics, Automation and Mechatronics '13 – RAM 2013*, Workshop ICT for new Materials and Nanotechnologies – New Nano, October 8-10, 2013 Bankya, Bulgaria, 138-141, ISSN 1314-4634
 32. Koprinkova-Hristova, P., Reinforcement learning framework aimed at predictive maintenance of industrial plants, *21 Межд. Симпозиум Управление на енергийни, индустриални и екологични системи*, 7-8 ноември 2013 г., гр. Банкя, 51-54. ISSN 1313-2237.

33. Лимбъри, М. Оптимални многонивови методи за конформни квадратични, биквадратични и бикубични крайни елементил *Автореферати на дисертации на Института по информационни и комуникационни технологии*, 4/2013, eISSN: 1314-6351.
34. Mihov M., Isaev G., Control of stand for research on effect "Combinated impact' by means of swage with rocket engine, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, 127-132, Bankya, Bulgaria, ISSN 1314-4634
35. Милина, В., Т. Тагарев, В. Георгиев, Към изследването на политики за енергийна сигурност в условия на неопределеност, *Военен журнал* 120:1, 2013, 45-57. ISSN 0861-7392
36. Minchev, Z., Integrated Border Security Aspects: Bulgarian Academic Experience and Development Perspectives, In *Proceedings of International Conference "The Eastern Partnership: Assessment of Past Achievements and Future Trends"*, Bucharest, Romania, 24-25 November, 2012 Published by Military Publishing House, 346-355, ISBN 978-973-32-0929-4.
37. Минчев, З., Сигурност в дигиталното общество. Технологични перспективи и предизвикателства. Наука, образование, сигурност. *Сборник доклади от юбилейна международна научна конференция "Десет години образование по сигурност в НБУ: състояние и перспективи пред обучението в условия на динамична и труднопредвидима среда"*. София, Издателство „Планета-3“, 438-444, 2013, ISBN 978-954-535-796-1
38. Минчев, Д. Интерферометрични мметоди и алгоритми за моделиране и обработка на сателитни SAR изображения. *Автореферати на дисертации на Института по информазионни и комуникационни технологии*. 2/2013, eISSN: 1314-6351.
39. Ockendon, H., S. Stoykov, T. Zorawik, S. Dimova, I. Georgiev, N. Kolkovska, M. Todorov, D. Vasileva, Prediction of sanding in subsurface hydrocarbon reser, *95th European Study Group with Industry (ESGI'95)*, Demetra Publishing House, Sofia, Bulgaria, 2013, ISBN 978-954-9526-84-4
40. Panteleev N., Medzhidieva B., Research on electromagnetic compatibility of E/ E /PE safety systems for industrial robots, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, 94-99, Bankya, Bulgaria, ISSN 1314-4634
41. Pavlov, Y., Preferences, Utility And General Equilibrium Analysis In: Edgeworth Box, *Proceeding of: International Conference "Automatics and Informatics'2013"*, Sofia, 3-7 October, 2013, I-15 – I-18, ISSN: 1313-1850.
42. Паунова, Е., К. Стоилова. Информационните технологии в помощ на изграждането на знания, *e-Journal VFU, Електронно списание на Варненския свободен университет „Ч. Храбър“*, бр 6, 2013, 1-27, ISSN 1313-7514.
43. Паунова Е. Проектиране и разработване на електронни игри за ученици като web-базирана услуга. *Автореферати на Института по информационни и комуникационни технологии*, 3/2013, e-ISSN: 1314-6351.
44. Паунова Е. Проектиране на игри за обучение. International Workshop Autonomic Computing and Automatic Control in Computer Systems. *Proceeding of Intern. Conf. Automatics and Informatics*, Sofia, October 3-7, 2013, I-181 – I-185, ISSN: 1313-1850

45. Peltekov, Alexander, Doychin Boyadzhiev, Mariusz Kozlowski, Zlatko Varbanov, Zlatogor Minchev, Optimization of the charging process in zinc hydrometallurgy, In: *ESGI' 95 Problems & Final Reports*, Demetra Publishing House, Sofia, 2013, 39- 45, ISBN 978-954-9526-84-4
46. Petrov, G., M. Dechev, E. Atanassov, Bulgarian Grid, Bulgarian Virtual Observatory and Some Astronomical Applications, *Proceedings of the VIII Serbian-Bulgarian Astronomical Conference (VIII SBAC)*, No 12, 2013, 57-89, ISBN: 978-89035-02-5.
47. Philipov, P., V.Lazarov, A Parallel Architecture for Fast Cosine Transform, ESI 2013: 3rd International Conference “Education, Science, Innovations” June 9-10 2013, Pernik, Bulgaria, 231 – 242, ISSN 1314-5711..
48. Pirinchev D., Bizhev B., Arshinkov S., Zheliazkov G., Ivanov D., Architecture of a portable handheld device for remotely collecting and transmitting data, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 29-33, ISSN 1314-4634
49. Радева И. Модели за вземане на решения при формиране на клъстерни структури, *Автореферати на дисертации на Института по информационни и комуникационни технологии – БАН*, 1/2013, E-ISSN 1314-6351.
50. Sgurev V., S. Drangajov. Optimal Circulation of Mobile Robots, *Трудове на 21-ви Международен симпозиум „Управление на топлоенергийни обекти и системи”*, Банкя, България, 77-80, 2013, ISSN 1313-2237.
51. Stoilov, T., K.Stoilova, M.Vladimirov. Modified Portfolio Optimization problem with lack of subjective influences. *Сб. Доклади от межд. конф. „Перспективи пред индустриалния бизнес”*, 6-7.12.2013, ИУ-Варна, 25-28, ISBN 978-954-8235-09-9.
52. Stoilova, K., T.Stoilov, K.Nikolov. Autonomic Computing Applications for Traffic Control. International Workshop Autonomic Computing and Automatic Control in Computer Systems. *Proceeding of Intern. Conf. “Automatics and Informatics 2013”*, 157-160, 2013, ISSN 1313-1850.
53. Stoymenov N., Gyoshev S., Thermography with infrared camera, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 116-117, ISSN 1314-4634
54. Stoymenov N., Gyoshev S., Panev P., Klochkov L., Agalarev C., Automate the packaging processes and operation on foot "CURRY" - Part 2, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 110-115, ISSN 1314-4634
55. Stoymenov N., Gyoshev S., Panev P., Klochkov L., Sokolov B.,Automate the packaging processes and operation on foot "CURRY" - Part 1, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 106-109, ISSN 1314-4634
56. Tagarev, T., Bulgaria: Protecting National Critical Infrastructures with the Contribution of the Ministry of Defense, *The European Journal of Critical Services and Infrastructure Protection* 1:1, October 2013, 28-31, ISSN 2344-3790
57. Tagarev, T. Good Governance of Intelligence from a Management Perspective, *Information & Security: An International Journal* 30, 2013, 34-40, ISSN 0861-5160
58. Tagarev, T., and P. Ivanova, Analytical support to foresighting EU roles as a Global Security Actor, *Information & Security: An International Journal* 29, no. 1, 2013, 21-33, ISSN 0861-5160

59. Tagarev, T., V. Georgiev, Barriers to the Implementation of the 'Smart Defence' Concept, *International High-level conference on "Smart Defence - Pooling and Sharing: Eastern European View on Multinational and Innovative Approaches to Capability Development"*, Sofia, Avangard Prima, 2013, 109-113. ISBN 978-619-160-101-1.
60. Tagarev, T., V. Georgiev, and J. Ahokas, Evaluating the Cross-impact of EU Functions as a Global Actor and Protector of Critical Infrastructures and Supply Chains, *Information & Security: An International Journal* 29, 2013, 34-48, ISSN 0861-5160
61. Tashev, T., Bakanov, A., Tasheva, R., Determination of the value of convergence parameter in a procedure of calculating the upper boundary of throughput for packet switch. In: *Proceedings of the International Conference Robotics, Automation and Mechatronics '13 RAM 2013*, 8-10 October 2013, Bankya, Bulgaria, 34-37, ISSN 1314-4634.
62. Ташев, Т., Моделирование пропускной способности MiMa алгоритма для пакетного коммутатора при входящем трафике типа «горячей точки». In: *Proceedings of the International Conference "Distributed Computer and communication networks DCCN 2013"*, October 7-10, 2013, Moscow, Russia. JSC "TECHNOSPHERA", Moscow, 2013. 257-264, ISBN 978-5-94836-366-0.
63. Ташев, Т., Монов, В., Карастоянов, Д. Обобщено-мрежов модел за определяне коефициента на филтрация на почвени проби. In: *Proceedings of the International Conference Automatics and Informatics '13*, 03-07 Октомври 2013 Sofia, Bulgaria, I-195-I-198, ISSN 1313-1850.
64. Terziyska M., Y. Todorov, M. Petrov. Predictive controller based on neuro-fuzzy model with multiple recurrent nodes, In: *Proceedings of the International conference on Food Science, Engineering and Technologies'2013*, University of Food Technologies-Plovdiv, Bulgaria, vol. LX, 63-68, 2013, ISSN 1314-7102.
65. Terziyska M., Y. Todorov, M. Petrov. Real-time Supervisory tuning of Predictive Controller, *Journal of Technical University-Sofia "Fundamental Sciences and Applications"*, , vol. 19, 155-160, Plovdiv, Bulgaria, 2013, ISSN 1310-8271.
66. Todorov Y., M. Terziyska, M. Petrov. Levenberg-Marcquadt training approach for Recurrent Fuzzy-Neural Network, In: *Proceedings of International Conference on Automatics and Informatics'2013*, I-139-I-141, 2013, ISSN 1313-1850.
67. Тричкова, Е., Уеб-базирана система за електронно обучение по медицински дисциплини – административен модул, *Първа национална тематична школа и борса за научни идеи в областта на информационните и комуникационни технологии*, Русе 2013, 27-28 Юни 2013, 107-112, ISSN 1314-9024
68. Zagurski K, Boyadziev T., Boyadziev G., Delchev K., Vitkov V. Controlling the pressing force in an automated drilling bone, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 52-55, ISSN 1314-4634
69. Загурски К., Бояджиев Т., Бояджиев Г., Делчев К., Витков В. Контролиране на силата на натиск при автоматизирано пробиване на кости. *Int. Conf. Robotics, Automation and Mechatronics '13 RAM 2013*, 8-10.10.2013, Банкя, София, CD, ISSN 1314-4634

70. Zheliazkov G., Ivanov D., Pirinchev D., Bizhev B., Arshinkov S., Methods and Technologies for Localization of Static and Dynamic Objects, *Workshop NewNano + Int. Conf. RAM 2013*, October 8-10 2013, Bankya, Bulgaria, 100-105, ISSN 1314-4634

1.4. Списък на монографиите (3)

1. Pavlov Y., R. D. Andreev, *Decision Control, Management, and Support in Adaptive and Complex Systems: Quantitative Models*. IGI Global, Pennsylvania (USA), 2013, ISBN: 13: 9781466629677, ISBN10: 1466629673, EISBN13: 9781466629684
2. Славов З., М. Брусева, В. Николаева, С. Ненков, Т. Стоилов, К. Стоилова, М. Владимиров. *Методи и модели за вземане на бизнес решения*. ВСУ „Ч. Храбър”, Унив. издат., 2013, ISBN 978-954-715-608-1
3. Tagarev, T. and G. Tsvetkov. *Relating Defence Policy to Data: Comparative Defence Data Analysis*, Geneva, Geneva Centre for the Democratic Control of Armed Forces, 2013, ISBN 978-92-9222-289-5

1.5. Списък на учебници, учебни помагала, публицистика, научно-популярни произведения, художествени творби от всякакъв вид (5)

1. Боянов К., Джон Атанасов 110 години от рождението, *сп. БАН*, кн. 5, 2013, изд. „М. Дринов”, София.
2. Boyanov K., Information Evolution and Man, Mathematics and Natural Science, In: *Proceedings of the Fifth International Scientific Conference-FMNS 2013*, June 2013, SWU “Neofit Rilski”, Blagoevgrad.
3. Боянов К., Влияние на приеманата и обработвана информация върху поведението на човека, *Сп. на БАН*, кн. 3, 2013, изд. „М. Дринов”, София.
4. Добринкова, Н. *Информационни системи за симулиране на поведението на горски и полски пожари*, 135 стр. , Издателство „Амикум” , 2013, ISBN: 978-619-90047-1-5.
5. Георгиев, В. *Планиране на способности за киберсигурност на базата на сценарии*. София, изд. Авангард, 2013 г. ISBN 978-954-323-651-1.

1.6. Списък на редактирани научни сборници (18)

1. Angelova, G., K. Bontcheva and R. Mitkov (Eds.). *Proceedings of the International Conference RANLP-13 “Recent Advances in Natural Language Processing”*, Hissar, Bulgaria, 9-11 September 2013, Incoma Ltd., Shoumen, ISSN 1313-8502, 2013.
2. Dey, A., S. Krause, I. Nikolova, E. M. Vecchi, S. Bethard, P. I. Nakov, F.Xu. (Eds.) *Proceedings of the Student Research Workshop associated with the 51st Annual Meeting of the Association for Computational Linguistics*, Sofia, Bulgaria, August 5-7, 2013, Association for Computational Linguistics (ACL), ISBN 978-1-937284-50-3.
3. Dimov, I. T., I. Faragó, and L. Vulkov (Eds). *Proceedings of NAA 2012, LNCS 8236*, Springer, 2013, ISSN: 0302-9743.

4. Didmitrov, V., Georgiev, V. (Eds.) *Proceedings of the 7th International Conference on Information Systems and Grid Technologies*, Sofia, Bulgaria, 30 May – 1 June, 2013. ISSN 1314-4855.
5. Farago, I., K. Georgiev, A. Havasi, Z. Zlatev (Eds.), *Efficient Numerical Methods for Scientific Applications*, Special Issue of Computers&Mathematics with Applications, doi: 10.1016/j.camwa.2012.07.006, ISSN: 0898-122, Vol. 65, No.3, February 2013, ISSN 0898-122
6. Fidanova, S. (Ed.) *Recent Advances in Computational Optimization*, *Studies in Computational Intelligence*, Vol. 470, Springer, 2013, ISBN 978-3-319-00409-9.
7. Georgiev, K., Z. Zlatev, A. Ebel (Eds.), *Advanced Applications of Environmental Modelling Systems*, Special Issue in Int. J. of Environment and Pollution, Vol. 46, Nos. 1/2, 2011, ISSN: 0957-4352
8. Karátson, J., S. Korotov, S. Margenov (Eds.), *Numerical Methods for Large-Scale Scientific Computing, I*, Central European Journal of Mathematics, April 2013, Volume 11, Issue 4, ISSN:1895-1074
9. Karátson, J., S. Korotov, S. Margenov (Eds.), *Numerical Methods for Large-Scale Scientific Computing, II*, Central European Journal of Mathematics, August 2013, Volume 11, Issue 8, ISSN:1895-1074
10. Koprinkova-Hristova, P. and K. Alexiev (Eds.). *Proceedings of IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, ISBN: 978-1-4799-0661-1, IEEE Catalog Number: CFP1372N-ART
11. Kübler, S., P. Osenova, M. Volk (Eds.). *Proc. of the Twelfth Workshop on Treebanks and Linguistic Theories (TLT12)*. Bulgaria, 2013, ICT-BAS, ISBN: 978-954-91700-6-1.
12. Iliev, O., S. Margenov, P. Minev, P. Vassilevski, L. Zikatanov (Eds.), *Numerical Solution of Partial Differential Equations: Theory, Algorithms, and Their Applications*, Springer Proceedings in Mathematics & Statistics, 2013, ISSN: 2194-1009
13. Maynard, D., M. van Erp, B. Davis, P. Osenova, K. Simov, G. Georgiev, P. Nakov (Eds.). *Proceedings of the Joint Workshop on NLP&LOD and SWAIE: Semantic Web, Linked Open Data and Information Extraction. Corpora held in conjunction with RANLP-13*, Hissar, Bulgaria, 12 September 2013, Incoma Ltd., Shoumen, 2013, ISBN 978-954-452-025-0.
14. Mladenov, V.; Koprinkova-Hristova, P.; Palm, G.; Villa, A.; Apolloni, B.; Kasabov, N.K. (Eds.). *Proceedings of Artificial Neural Networks and Machine Learning - ICANN 2013, 23rd International Conference on Artificial Neural Networks*, Sofia, Bulgaria, September 10-13, 2013, *Lecture Notes in Computer Science*, Vol. 8131, , 2013, XVIII, ISBN 978-3-642-40727-7
15. Savova, G., K. B. Cohen and G. Angelova (Eds.). *NLP for Medicine and Biology 2013, Proceedings of the International Workshop held in conjunction with RANLP-13*, Hissar, Bulgaria, 13 September 2013, Incoma Ltd., Shoumen, 2013, ISBN 978-954-452-024-3.
16. Temnikova, Irina, Ivelina Nikolova and Natalia Konstantinova (Eds.). *Proceedings of the Student Research Workshop associated with the 9th International Conference on Recent Advances in Natural Language Processing (RANLP 2013)*, 9-11 September 2013, INCOMA Ltd. Shoumen, Bulgaria, 2013, ISSN 1314-9156.

17. Терзиева, В., Кадемова-Кацарова, П. (Eds.) Съвременни ИКТ базирани методи за обучение, *Доклади на VI-та национална конференция „Образованието в информационното общество”*, 237– 247, 30 - 31 май, Пловдив, 2013, ISSN 1314-0752.
18. Vertan, C., M. Slavcheva and P. Osenova (Eds.). *Adaptation of Language Resources and Tools for Closely Related Languages and Language Variants, Proceedings of International Workshop, RANLP 2013*, Hissar, Bulgaria, Incoma Ltd., Shoumen, 2013, ISBN 978-954-452-026-7.

1.7. Списък на отпечатани дисертационни трудове

(7)

1. Атанасова В. *Изследване на алгоритми за конструиране на обобщеномрежови модели*, Дисертационен труд за присъждане на ОС “Доктор”, ИИКТ – БАН, София, 2013, ISBN 978-954-322-593-4.
2. Георгиева П. *Изследване на модели на софт компютинг за управление в реално време*, Дисертационен труд за присъждане на ОС “Доктор”, ИИКТ – БАН, София, 2013, ISBN 978-954-322-604-7.
3. Илчев, С., *Модулни методи за вграждане на цифрова информация в изображения за подобряване сигурността на Интернет-базирани комуникационни платформи*, Академично издателство "Проф. Марин Дринов", София 2013, ISBN 978-954-322-715-0.
4. Костадинов Т., *Методи и алгоритми за обработка на SAR и ISAR изображения*, Дисертация за придобиване на ОНС “доктор”, ИИКТ-БАН, Изд. Марин Дринов, октомври 2013, ISBN: 979-954-322-654-2
5. Лимбери М. *Оптимални многогониови методи за конформни квадратични, биквадратични и бикубични крайни елементи*, Дисертационен труд за присъждане на ОС “Доктор”, ИИКТ – БАН, София, 2013, ISBN 978-954-322-625-2
6. Паунова Е. *Проектиране и разработване на електронни игри за ученици като web-базирана услуга*. Академично издателство „Проф. Марин Дринов” ISBN 978-954-322-598-9, 2013.
7. Вълканов В. *Контекстно ориентирано управление на електронни услуги*, Дисертационен труд за присъждане на ОС “Доктор”, ИИКТ – БАН, София, 2013, ISBN 978-954-322-701-3.