

List of AComIn Publications: April 2014 – January 2016 (project months 19-40)

Publications in Peer Reviewed Scientific Journals and Conference Proceedings

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APA Style

PUBLICATIONS WITH IF, SJR AND DOI

1. Dicheva, D., Dichev, C., Agre, G., & Angelova, G. (2015). Gamification in education: a systematic mapping study. *Educational Technology & Society*, 18(3), 75-88. ISSN:11763647, Retrieved from <http://www.jstor.org/stable/jeductechsoci.18.3.75> (5Y IF 1.376, SJR 0.919)
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3. Georgieva, I., & Hofreither, C. (2014). Interpolation of harmonic functions based on Radon projections. *Numerische Mathematik*, 127(3), 423-445. ISSN:0029599X, DOI:[10.1016/j.camwa.2014.07.030](https://doi.org/10.1016/j.camwa.2014.07.030). (IF 1.608, SJR 1.78)
4. Georgieva, I., & Hofreither, C. (2015). Interpolating solutions of the Poisson equation in the disk based on Radon projections. *Journal of Mathematical Analysis and Applications*, 423(1), 305-317. ISSN: 0022247X, DOI: [10.1016/j.jmaa.2014.09.031](https://doi.org/10.1016/j.jmaa.2014.09.031). (IF 1.12, SJR 1.206)
5. Georgieva, I., & Hofreither, C. (2015). Cubature rules for harmonic functions based on Radon projections. *Calcolo*, 52(2), 153-166. ISSN: 00080624, DOI:[10.1007/s10092-014-0111-2](https://doi.org/10.1007/s10092-014-0111-2) (IF 1.2, SJR: 0.604)
6. Kudriashov, V. (2015). A Modified Maximum Likelihood Method for Estimation of Mutual Delay and Power of Noise Signals by Bistatic Radiometer. *Comptes rendus de l'Académie bulgare des Sciences*, 68(5), 631-640. ISSN:1310–1331. (IF 0.284, SJR 0.21)

7. Liolios, A., Karabinis, A., Liolios, A., Radev, S., Georgiev, K., & Georgiev, I. (2015). A computational approach for the seismic damage response under multiple earthquakes excitations of adjacent RC structures strengthened by ties. *Computers & Mathematics with Applications*, 70(11), 2742-2751. ISSN:0898-1221, DOI:[10.1016/j.camwa.2015.08.012](https://doi.org/10.1016/j.camwa.2015.08.012). (5Y IF 2.17, SJR 1.121)
8. Lukin, K. A., Kudriashov, V. V., Vyplavin, P. L., Palamarchuk, V. P., & Lukin, S. K. (2015). Coherent radiometric imaging using antennas with beam synthesizing. *International Journal of Microwave and Wireless Technologies*, 7(3-4), 453-458. ISSN:17590787, DOI:[10.1017/S1759078715000550](https://doi.org/10.1017/S1759078715000550). (IF 0.348, SJR 0.269)
9. Ribeiro, P., & Stoykov, S. (2015). Forced periodic vibrations of cylindrical shells in laminated composites with curvilinear fibres. *Composite Structures*, 131, 462-478. ISSN:0263-8223, DOI:[10.1016/j.compstruct.2015.05.050](https://doi.org/10.1016/j.compstruct.2015.05.050). (5Y IF 3.5, SJR 2.302)
10. Savov, M., & Wang, S. D. (2015). Fluctuation limits of a locally regulated population and generalized Langevin equations. *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, 18(02), 1550009. ISSN:0219-0257, DOI:[10.1142/S0219025715500095](https://doi.org/10.1142/S0219025715500095). (IF 0.73, SJR 0.736)
11. Sellier, J. M., Amoroso, S. M., Nedjalkov, M., Selberherr, S., Asenov, A., & Dimov, I. (2014). Electron dynamics in nanoscale transistors by means of Wigner and Boltzmann approaches. *Physica A: Statistical Mechanics and its Applications*, 398, 194-198. ISSN:03784371, DOI:[10.1016/j.physa.2013.12.045](https://doi.org/10.1016/j.physa.2013.12.045). (IF 1.732, SJR 0.626)
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14. Sellier, J. M., & Dimov, I. (2014). A Wigner approach to the study of wave packets in ordered and disordered arrays of dopants. *Physica A: Statistical Mechanics and its Applications*, 406, 185-190. ISSN:0378-4371, DOI: [10.1016/j.physa.2014.03.065](https://doi.org/10.1016/j.physa.2014.03.065). (IF 1.732, SJR 0.626)
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16. Sellier, J. M., & Dimov, I. (2015). Toward solotronics design in the Wigner formalism. *Physica A: Statistical Mechanics and its Applications*, 417, 287-296. ISSN:0378-4371, DOI:[10.1016/j.physa.2014.09.057](https://doi.org/10.1016/j.physa.2014.09.057). (IF 1.732, SJR 0.626)
17. Sellier, J. M., & Dimov, I. (2015). A sensitivity study of the Wigner Monte Carlo method. *Journal of Computational and Applied Mathematics*, 277, 87-93. ISSN:0377-0427, DOI:[10.1016/j.cam.2014.09.010](https://doi.org/10.1016/j.cam.2014.09.010). (IF 1.266, SJR 1.104)
18. Sellier, J. M., & Dimov, I. (2015). On the simulation of indistinguishable fermions in the many-body Wigner formalism. *Journal of Computational Physics*, 280, 287-294. ISSN:0021-9991, DOI:[10.1016/j.jcp.2014.09.026](https://doi.org/10.1016/j.jcp.2014.09.026). (IF 2.434, SJR 2.039)
19. Sellier, J. M., & Dimov, I. (2015). Wigner functions, signed particles, and the harmonic oscillator. *Journal of Computational Electronics*, 14(4), 907-915. ISSN:1569-8025, DOI:[10.1007/s10825-015-0722-0](https://doi.org/10.1007/s10825-015-0722-0). (IF 1.520, SJR 0.63)
20. Sellier, J. M., Ivanova, D. Y., & Dimov, I. (2015). Molecular descriptors and quasi-distribution functions. *Computers & Mathematics with Applications*, 70(11), 2726-2731. ISSN:08981221, DOI:[10.1016/j.camwa.2015.06.037](https://doi.org/10.1016/j.camwa.2015.06.037). (IF 1.697, SJR 1.121)
21. Sellier, J. M., Nedjalkov, M., Dimov, I., & Selberherr, S. (2015). A comparison of approaches for the solution of the Wigner equation. *Mathematics and Computers in Simulation*, 107, 108-119. ISSN:0378-4754, DOI: [10.1016/j.matcom.2014.06.001](https://doi.org/10.1016/j.matcom.2014.06.001). (IF 0.949, SJR 0.579)
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23. Sellier, J. M., Sviercoski, R. F., & Dimov, I. (2016). On the Wigner Monte Carlo method coupled to pseudopotential models. *Journal of Computational and Applied Mathematics*, 293, 217-222. ISSN:0377-0427, DOI: [10.1016/j.cam.2015.01.033](https://doi.org/10.1016/j.cam.2015.01.033). (IF 1.266, SJR 1.104)
24. Stoykov, S., Litak, G., & Manoach, E. (2015). Vibration energy harvesting by a Timoshenko beam model and piezoelectric transducer. *The European Physical Journal Special Topics*, 224(14-15), 2755-2770. ISSN:1951-6355, DOI: [10.1140/epjst/e2015-02587-3](https://doi.org/10.1140/epjst/e2015-02587-3). (IF 1.399, SJR 0.592)
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26. Stoykov, S., & Margenov, S. (2016). Scalable parallel implementation of shooting method for large-scale dynamical systems. Application to bridge components. *Journal of Computational and Applied Mathematics*, 293, 223-231. ISSN:0377-0427, DOI: [10.1016/j.cam.2015.04.015](https://doi.org/10.1016/j.cam.2015.04.015). (IF 1.266, SJR 1.104)

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1. Alexiev, K., Shishkov, G., & Popova, N. (2015). Human Activity Registration Using Multisensor Data Fusion. *Cybernetics and Information Technologies*, 15(7), 99-108. ISSN:13144081, DOI: [10.1515/cait-2015-0093](https://doi.org/10.1515/cait-2015-0093). (SJR:0.17)
2. Balabanov, T., Zankinski, I., & Shumanov, B. (2014). Slot machines RTP optimization with genetic algorithms. In *Numerical Methods and Applications* (pp. 55-61). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI: [10.1007/978-3-319-15585-2_6](https://doi.org/10.1007/978-3-319-15585-2_6). (SJR 0.339)
3. Boyadzieva, D., & Gluhchev, G. (2014). Neural Network and kNN Classifiers for On-line Signature Verification. In *Biometric Authentication* (pp. 198-206). Springer International Publishing: LNCS, 8897. ISSN:0302-9743, DOI: [10.1007/978-3-319-13386-7_16](https://doi.org/10.1007/978-3-319-13386-7_16). (SJR 0.339)
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5. Cantoni, V., Dimov, D. T., & Nikolov, A. (2014). 3D ear analysis by an EGI representation. In *Biometric Authentication* (pp. 136-150). Springer International Publishing: LNCS, 8897. ISSN:0302-9743, DOI: [10.1007/978-3-319-13386-7_11](https://doi.org/10.1007/978-3-319-13386-7_11). (SJR 0.339)
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7. Dezert, J., Tchamova, A., & Konstantinova, P. The Impact of the Quality Assessment of Optimal Assignment for Data Association in a Multitarget Tracking Context. *Cybernetics and Information Technologies*, 15(7), 88-98. ISSN:13144081, DOI: [10.1515/cait-2015-0092](https://doi.org/10.1515/cait-2015-0092). (SJR:0.17)
8. Dichev, C., Dicheva, D., Angelova, G., & Agre, G. (2014). From gamification to gameful design and gameful experience in learning. *Cybernetics and Information Technologies*, 14(4), 80-100. ISSN:13144081, DOI: [10.1515/cait-2014-0007](https://doi.org/10.1515/cait-2014-0007). (SJR:0.17)
9. Dichev, C., Dicheva, D., Agre, G., & Angelova, G. (2015). Trends and opportunities in computer science OER development. *Cybernetics and Information Technologies*, 15(3), 114-126. ISSN:13144081, DOI: [10.1515/cait-2015-0045](https://doi.org/10.1515/cait-2015-0045). (SJR:0.17)
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11. Dobрева, M., Angelova, & Agre, G. (2015). Bridging the gap between digital libraries and e-learning. *Cybernetics and Information Technologies*, 15(4), 92-110. ISSN:13144081, DOI: [10.1515/cait-2015-0057](https://doi.org/10.1515/cait-2015-0057). (SJR:0.17)

12. Georgiev, I., Harizanov, S., & Vutov, Y. (2015). Supervised 2-phase segmentation of porous media with known porosity. In *Large-Scale Scientific Computing* (pp. 343-351). Springer International Publishing: LNCS, 9374. ISSN:0302-9743, DOI:[10.1007/978-3-319-26520-9_38](https://doi.org/10.1007/978-3-319-26520-9_38). (SJR 0.339)
13. Georgiev, I., Ivanov, E., Margenov, S., & Vutov, Y. (2014). Numerical Homogenization of Epoxy-Clay Composite Materials. In *Numerical Methods and Applications* (pp. 130-137). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI:[10.1007/978-3-319-15585-2_15](https://doi.org/10.1007/978-3-319-15585-2_15). (SJR 0.339)
14. Georgieva, I., Hofreither, C., & Uluchev, R. (2012). Least squares fitting of harmonic functions based on Radon projections. In *Mathematical Methods for Curves and Surfaces* (pp. 158-171). Springer Berlin Heidelberg: LNCS, 8177. LNCS, 8962. ISSN:0302-9743, DOI:[10.1007/978-3-642-54382-1_9](https://doi.org/10.1007/978-3-642-54382-1_9). (SJR 0.339)
15. Harizanov, S., Margenov, S., & Zikatanov, L. (2015). Fast Constrained Image Segmentation Using Optimal Spanning Trees. In *Large-Scale Scientific Computing* (pp. 15-29). Springer International Publishing: LNCS, 9374. ISSN:0302-9743, DOI:[10.1007/978-3-319-26520-9_2](https://doi.org/10.1007/978-3-319-26520-9_2). (SJR 0.339)
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17. Hofreither, C., & Zulehner, W. (2014). Spectral analysis of geometric multigrid methods for isogeometric analysis. In *Numerical Methods and Applications* (pp. 123-129). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI:[10.1007/978-3-319-15585-2_14](https://doi.org/10.1007/978-3-319-15585-2_14). (SJR 0.339)
18. Ivanov, V. N. (2015). Using a PicoBlaze Processor to Traffic Light Control. *Cybernetics and Information Technologies*, 15(5), 131-139. ISSN:13144081, DOI:[10.1515/cait-2015-0023](https://doi.org/10.1515/cait-2015-0023). (SJR:0.17)
19. Koprinkova-Hristova, P. (2014). Hebbian Versus Gradient Training of ESN Actors in Closed-Loop ACD. In *Numerical Methods and Applications* (pp. 95-102). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI: [10.1007/978-3-319-15585-2_11](https://doi.org/10.1007/978-3-319-15585-2_11). (SJR 0.339)
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21. Koprinkova-Hristova, P., & Alexiev, K. (2015). ACD with ESN for Tuning of MEMS Kalman Filter. In *Large-Scale Scientific Computing* (pp. 226-233). Springer International Publishing: LNCS, 9374. ISSN:0302-9743, DOI:[10.1007/978-3-319-26520-9_24](https://doi.org/10.1007/978-3-319-26520-9_24). (SJR 0.339)
22. Koprinkova-Hristova, P., & Alexiev, K. (2014). Dynamic sound fields clusterization using neuro-fuzzy approach. In *Artificial Intelligence: Methodology, Systems, and Applications* (pp. 194-205). Springer International Publishing: LNCS, 8722. ISSN:0302-9743, DOI:[10.1007/978-3-319-10554-3_19](https://doi.org/10.1007/978-3-319-10554-3_19). (SJR 0.339)
23. Kosturski, N., Lirkov, I., Margenov, S., & Vutov, Y. (2015). Thermoelectrical Tick Removal Process Modeling. In *Large-Scale Scientific Computing* (pp. 369-376). Springer International Publishing: LNCS, 9374. ISSN:0302-9743, DOI: [10.1007/978-3-319-26520-9_41](https://doi.org/10.1007/978-3-319-26520-9_41). (SJR 0.339)
24. Kosturski, N., Margenov, S., Popov, P., Simeonov, N., & Vutov, Y. (2015). Performance Analysis of Block AMG Preconditioning of Poroelasticity Equations. In *Large-Scale Scientific Computing* (pp. 377-384). Springer International Publishing LNCS, 9374. ISSN:0302-9743, DOI: [10.1007/978-3-319-26520-9_42](https://doi.org/10.1007/978-3-319-26520-9_42). (SJR 0.339)
25. Kudriashov, V. V., Garbar, A. Y., Lukin, K. A., Maslikowski, L., Samczynski, P., & Kulpa, K. S. (2015). Fusion of Images Generated by Radiometric and Active Noise SAR. *Cybernetics and Information Technologies*, 15(7), 58-66. ISSN:13144081, DOI:[10.1515/cait-2015-0089](https://doi.org/10.1515/cait-2015-0089). (SJR:0.17)

26. Liolios, A., Elenas, A., Liolios, A., Radev, S., Georgiev, K., & Georgiev, I. (2014). Tall RC Buildings Environmentally Degradated and Strengthened by Cables Under Multiple Earthquakes: A Numerical Approach. In *Numerical Methods and Applications* (pp. 187-195). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI:[10.1007/978-3-319-15585-2_21](https://doi.org/10.1007/978-3-319-15585-2_21). (SJR 0.339)
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29. Mironova, M., Ivanova, M., Naidenov, V., Georgiev, I., & Stary, J. (2015, October). Advance study of fiber-reinforced self-compacting concrete. In *Applications of Mathematics in Techniques and Natural Sciences: 7th International Conference for Promoting the Application of Mathematics in Technical and Natural Sciences-AMiTaNS'15* (Vol. 1684, p. 030009). AIP Publishing. ISSN:0094243X, DOI: [10.1063/1.4934293](https://doi.org/10.1063/1.4934293). (SJR 0.152)
30. Nikolov, A., & Dimov, D. (2015). 2D Video Stabilization for Industrial High-Speed Cameras. *Cybernetics and Information Technologies*, 15(7), 23-34. ISSN:13144081, DOI:[10.1515/cait-2015-0086](https://doi.org/10.1515/cait-2015-0086). (SJR:0.17)
31. Nikolova, I., Tcharaktchiev, D., Boytcheva, S., Angelov, Z., & Angelova, G. (2014). Applying Language Technologies on Healthcare Patient Records for Better Treatment of Bulgarian Diabetic Patients. In *Artificial Intelligence: Methodology, Systems, and Applications* (pp. 92-103). Springer International Publishing: LNCS, 8722. ISSN:0302-9743, DOI:[10.1007/978-3-319-10554-3_9](https://doi.org/10.1007/978-3-319-10554-3_9). (SJR 0.339)
32. Ouzounov, A. (2014). Noisy Speech Endpoint Detection using Robust Feature. In *Biometric Authentication* (pp. 105-117). Springer International Publishing: LNCS, 8897. ISSN:0302-9743, DOI:[10.1007/978-3-319-13386-7_9](https://doi.org/10.1007/978-3-319-13386-7_9). (SJR 0.339)
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35. Sellier, J. M., Nedjalkov, M., Dimov, I., & Selberherr, S. (2014). A benchmark study of the Wigner Monte Carlo method. *Monte Carlo Methods and Applications*, 20(1), 43-51. ISSN: 09299629, DOI:[10.1515/mcma-2013-0018](https://doi.org/10.1515/mcma-2013-0018). (SJR 0.205)
36. Sellier, J. M., Nedjalkov, M., Dimov, I., & Selberherr, S. (2013). The role of annihilation in a Wigner Monte Carlo approach. In *Large-Scale Scientific Computing* (pp. 186-193). Springer Berlin Heidelberg: LNCS, 8353. ISSN:0302-9743, DOI: [10.1007/978-3-662-43880-0_20](https://doi.org/10.1007/978-3-662-43880-0_20). (SJR 0.339)
37. Sellier, J. M., Georgieva, R., & Dimov, I. (2014). Sensitivity Analysis of Design Parameters for Silicon Diodes. In *Numerical Methods and Applications* (pp. 34-43). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI: [10.1007/978-3-319-15585-2_4](https://doi.org/10.1007/978-3-319-15585-2_4). (SJR 0.339)
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39. Stoykov, S., Hofreither, C., & Margenov, S. (2014). Isogeometric analysis for nonlinear dynamics of Timoshenko beams. In *Numerical Methods and Applications* (pp. 138-146). Springer International Publishing: LNCS, 8962. ISSN:0302-9743, DOI:[10.1007/978-3-319-15585-2_16](https://doi.org/10.1007/978-3-319-15585-2_16). (SJR 0.339)

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