

**Списък на всички научните трудове  
на  
проф. д.н. Стефка Стоянова Фиданова**

1. **Fidanova S.** The Mapping of Algorithms on Linear Systolic Array. Int. Conf of Parallel and Distributed Processing, Elsevier Science Publishers, 1991, ISBN:0-444-89157-9, 285-292 – цитирана 1 път
2. Aleksandrov V., **Fidanova S.** On the Average Execution Time for a Special Class of non Uniform Recurrence Equations on Linear Systolic Array. Numerical Methods and Applications, IOS Press Amsterdam, 1992, 144-152 – цитирана 1 път
3. Aleksandrov V., **Fidanova S.** On the Expected Execution Time for a Class of non Uniform Recurrence equation mapped onto 1D Regular Array. Parallel Algorithms and Applications, 1, 4, Tajlor & Francis, 1993, ISSN:1063-7192, DOI:10.1080/10637199308915449, 303-314 – цитирана 10 пъти
4. **Fidanova S.** Automatic derivation of expandable systolic algorithms for LU decomposition. Mathematical Modeling and Scientific Computation, 1993, 63-66
5. Aleksandrov V., **Fidanova S.** Non Uniform Recurrence Equations on 2D regular Array. Advances in Numerical Methods and Applications, World Scientific, 1994, ISBN:978-981-4550-28-4, DOI:https://doi.org/10.1142/9789814533751, 217-225 – цитирана 4 пъти
6. **Fidanova S.**, Aleksandrov V., Megson G.. Mapping Knapsack Type Problems on 2D Regular Arrays: Two Case Studies. MATHEMATICAL RESEARCH, Int. Conf. of Parallel Processing, Potsdam, Germany, 81, AKADEMIE VERLAG GMBH, Germany, 1994, ISSN:0138-3019, 247-256
7. **Fidanova S.** Linear Array for Spelling Correction. Concurrency and Computation: Practice and Experience, 9, Wiley, 1997, ISSN:ISSN: 1532-0634, DOI:10.1002/(SICI)1096-9128(199710)9:103.0.CO;2-L, 976-983. JCR-IF (Web of Science):0.997 – цитирана 1 път
8. **Fidanova S.**, Goldman A.. Parallel Execution of irregular meshes into a systolic linear array. Int. conf of Parallel Processing & Applied Mathematics, Eds. R. Wirzikovski, Zakopane, Poland, Academic Press, 1997, 267-272
9. Faure C., Dutto P., **Fidanova S.** Odysee and parallelism : Extention and Validation,. European Conf. on Numerical mathematics and Advanced Applications, World Scientifc, 1999, 478-485 цитирана 4 пъти
10. **Fidanova S.** Parallel execution of a class of non uniform recurrence equations into a linear array. J. of Parallel Algorithms and Applications, 16, 4, Taylor&Francis, 2001, ISSN:1063-7192, DOI:https://doi.org/10.1080/01495730108935274, 273-281. JCR-IF (Web of Science):1.1
11. Hascoet L., **Fidanova S.**, Held Ch.. Adjoining Independent Computations. Proceedings of 3rd International Conference on Automatic Differentiation: From Simulation to Optimization, Springer, 2002, 299-304 – цитирана 24 пъти
12. **Fidanova S.** Evolutionary Algorithm for Multiple Knapsack Problem. Parallel Problems Solving From Nature, Real World Optimization Using Evolutionary Computing, 2002, ISBN:0-9543481-0-9 – цитирана 41 пъти
13. **Fidanova S.** ACO Algorithm with Additional Reinforcement. Lecture Notes in Computer Science, 2463, Springer, 2002, ISBN:978-354045724-4, ISSN:03029743, DOI:10.1007/3-540-45724-0\_31, 292-293. SJR (Scopus):0.339 – цитирана 12 пъти
14. **Fidanova S.** Ant Colony Optimization and Pheromone Importance. Computer Science, Engineering and Applications, 2003, 408-413
15. **Fidanova S.** ACO Algorithm for MKP Using Various Heuristic Information. Lecture Notes in Computer Science, 2542, Springer, 2003, ISBN:3540006087, 978-354000608-4, ISSN:2300-5963, DOI:10.1007/3-540-36487-0\_49, 434-440. SJR (Scopus):0.339 – цитирана 31 пъти

16. **Fidanova S.** Monte-Carlo Method for Multiple Knapsack Problem, Large Scale Scientific Computing. Lecture Notes in Computer Science, 2907, Springer, 2004, ISBN:3540210903, 978-354021090-0 DOI, ISSN:0302-9743, DOI:10.1007/978-3-540-24588-9\_14, 136-143. SJR (Scopus):0.339 – цитирана 4 пъти
17. **Fidanova S.** Improved lower bounds for embedding hypercubes on de Bruijn graphs. Journal of Parallel and Distributed Computing, 64, 3, Elsevier, 2004, ISSN:0743-7315, DOI:10.1016/j.jpdc.2003.11.001, 327-329. JCR-IF (Web of Science):1.32
18. **Fidanova S.** Convergence Proof for a Monte Carlo Method for Combinatorial Optimization Problems. Lecture Notes in Computer Science, 3039, Springer, 2004, ISBN:3540221298 DOI, ISSN:0302-9743, DOI:10.1007/978-3-540-25944-2\_68, 523-530. SJR (Scopus):0.339, JCR-IF (Web of Science):0.305 – цитирана 13 пъти
19. **Fidanova S.** Heuristics for Multiple Knapsack Problem. Conference on Applied Computing, IADIS, 2005, 255-260 – цитирана 13 пъти
20. **Fidanova S.** Ant Colony Optimization for Multiple Knapsack Problem and Model Bias. Lecture Notes in Computer Science, 3401, Springer, 2005, ISSN:0377-0427, DOI:10.1007/978-3-540-31852-1\_33, 280-287. SJR (Scopus):0.339, JCR-IF (Web of Science):0.302 – цитирана 32 пъти
21. **Fidanova S., Saleh H.A.** Efficient Tabu Search Procedures for the GPS Surveying. Metaheuristic International Conference, Springer, 2005, 342-347 – цитирана 1 път
22. **Fidanova S., Saleh H.A.** Ant Colony Optimization for Scheduling the Surveying Activities of Satellite Positioning Networks. International Conference on Information Systems and Data Grids, 2005, 43-54 – цитирана 1 път
23. **Fidanova S.** Simulated Annealing: A Monte Carlo Method for GPS Surveying. Lecture Notes in Computer Science, 3991, Springer, 2006, 1009-1012. SJR (Scopus):0.339 – цитирана 7 пъти
24. **Fidanova S.** Simulated Annealing for GRID Scheduling Problem. International Symposium on Modern Computing, IEEE, 2006, ISBN:0-7695-2643-8, DOI:10.1109/JVA.2006.44, 41-45 – цитирана 83 пъти
25. **Fidanova S.** Ant Colony Optimization and Multiple Knapsack Problem. Handbook of Research on Nature Inspired Computing for Economy and Management, IGI-Global, 2006, ISBN:1-59140-984-5, 21, 489-509 – цитирана 27 пъти
26. **Fidanova S.** 3D HP Protein Folding Using Ant Algorithm. In proc of BioPs'06, 2006, 19-26 – цитирана 10 пъти
27. **Fidanova S., Durcova M.** Ant Algorithm for Grid Scheduling Problem. Lecture Notes in Computer Science, 3743, Springer, 2006, ISSN:0377-0427, 405-412. SJR:0.339 – цитирана 128 пъти
28. **Fidanova S.** Near-Native Protein Structure Simulation. J. of Bioautomation, 7, 2007, ISSN:1314-2321, 57-63. SJR:0.228
29. **Fidanova S.** Hybrid Heuristic Algorithm for GPS Surveying Problem. Lecture Notes in Computer Science, 3410, Springer, 2007, ISSN:0377-0427, 239-246. SJR:0.339 – цитирана 12 пъти
30. **Fidanova S.** An Heuristic Method for GPS Surveying Problem, Computational Science. Lecture Notes in Computer Science, 4450, Springer, 2007, ISSN:0377-0427, 1084-1090. SJR:0.339 – цитирана 5 пъти
31. **Fidanova S., Lirkov I.** Ant Colony System Approach for Protein Folding. Proceedings of the International Multiconference on Computer Science and Information Technology, 3, 2008, ISBN:978-83-60810-14-9, ISSN:1896-7094, 887-891 – цитирана 36 пъти
32. **Fidanova S.** Probabilistic Model of Ant Colony optimization for Multiple Knapsack Problem. Lecture Notes in Computer Science, 4818, Springer, 2008, 545-552. SJR:0.339 – цитирана 15 пъти
33. **Fidanova S.** MMAS and ACS for GPS Surveying Problem. in proc. of Int Conf on Evolutionary Computing, 2008, 87-91 – цитирана 2 пъти

34. **Fidanova S.**, Atanassov K.. Generalized Net Models of the Process of Ant Colony Optimization. Issues on Intuitionistic Fuzzy Sets and Generalized Nets, 7, 2008, 108-114 – цитирана 3 пъти
35. Kutiev I., Marinov P., **Fidanova S.**, Warnant R.. Modeling Medium-Scale TEC Structures, Observed by Belgian GPS Receivers Network. Int. Journal Advances in Space Research, 43, 11, Elsevier, 2009, ISSN:273-1177, 1732-1739. ISI IF:0.774 – цитирана 2 пъти
36. **Fidanova S.**, Lirkov, I.. 3D protein structure prediction. J. Analele Universitatii de Vest din Timisoara, XLVII, 2, Universitatea de Vest din Timisoara, 2009, ISSN:1224-970X, 33-46 – цитирана 6 пъти
37. **Fidanova S.**. Near-Native Protein Folding. Int. Conf. Computer Science, 2009, 61-66
38. **Fidanova S.**, Atanassov K.. Generalized net models for the process of hybrid ant colony optimization. Comptes Rendus de l'Academie Bulgare des Sciences, 62, 3, BAS, 2009, 315-322. ISI IF:0.209 – цитирана 4 пъти
39. **Fidanova S.**, Atanassov K., Marinov P.. Intuitionistic Fuzzy Estimations of the Ant Colony Optimization. BGSIAM, 2009, 33-36 – цитирана 1 път
40. **Fidanova S.**, Atanassov K., Marinov P., Parvathi R.. Ant Colony Optimization for Multiple Knapsack Problem with Controlled Start. Journal on Bioautomation, 13, 4, 2009, ISSN:1312-451X, 271-280. SJR:0.228 – цитирана 4 пъти
41. **Fidanova S.**, Alba E., Molina G.. Memetic Simulated Annealing for GPS Surveying Problem. Lecture Notes in Computer Science, 5434, Springer, 2009, 281-288. SJR:0.339 – цитирана 5 пъти
42. **Fidanova S.**, Marinov P.. Intuitionistic Fuzzy Estimation of the Ant Methodology. Cybernetics and Information Technology, 5, 2, 2009, 79-88 – цитирана 1 път
43. **Fidanova S.**. HPD Model for Protein Structure Simulation. Fifth International Conference Computer Science, 2010, ISBN:978-954-438-853-9, 336-341
44. **Fidanova S.**. An Improvement of the Grid-based Hydrophobic-hydrophilic Model,. Journal on Bioautomation, 14, 2, 2010, ISSN:1312-451X, 147-156. SJR:0.228 – цитирана 4 пъти
45. **Fidanova S.**, Atanassov K.. Generalized Nets as Tools for Modelling of the Ant Colony Optimization Algorithms. Lecture Notes in Computer Science, 5910, Springer, 2010, 326-333. SJR:0.339 – цитирана 4 пъти
46. **Fidanova S.**, Atanassov K.. Generalized net models and intuitionistic fuzzy estimation of the process of ant colony optimization Issues on Intuitionistic. Fuzzy Sets and Generalized Nets, 8, 2010, 109-124 – цитирана 4 пъти
47. **Fidanova S.**, Atanassov K., Marinov P.. Comparison of ACO behaviour with various start strategies applied on MKP. Information Systems and Grid Technologies, 2010, ISBN:978-954-07-3168-1, 191-199
48. **Fidanova S.**, Atanassov K., Marinov P.. Adjoint Estimation of Ant Colony Optimization Start Methods. BGSIAM, 2010, 29-33
49. **Fidanova S.**, Alba E., Molina G.. Hybrid ACO algorithm for the GPS surveying problem. Lecture Notes in Computer Science, 5910, Springer, 2010, ISSN:0377-0427, 318-325. SJR:0.339 – цитирана 4 пъти
50. **Fidanova S.**, Marinov P., Atanassov K.. Generalized Net Models of the Process of Ant Colony Optimization with Different Strategies and Intuitionistic Fuzzy Estimations. Proc. Jangjeon Math. Soc, 13, 1, 2010, 1-12 – цитирана 3 пъти
51. **Fidanova S.**, Marinov P., Atanassov K.. ACO with semi-random start applied on MKP.. Computer Science and Information Technology (IMCSIT), 2010, 887-891 – цитирана 2 пъти
52. **Fidanova S.**, Marinov P., Alba E.. ACO for Optimal Sensor Layout. Int. Conf. on Evolutionary Computing, SciTePress-Science and Technology Publications, 2010, ISBN:978-989-8425-31-7, 5-9 – цитирана 10 пъти

53. Dobrinkova N., **Fidanova S.**, Atanasov K.. Game-Method Model for Filed Fires. Lecture Notes in Computer Science, 5910, Springer, 2010, ISSN:0302-9743, 173-179. SJR:0.31 – цитирана 1 път
54. Atanasov K., **Fidanova S.** On a Representation of ACO-algorithm by Game Method for Modelling,. Seminar of Informatics of Union of Bulagian Scientists,, 4, 2011, 62-67
55. **Fidanova S.**, Shindarov M., Marinov P.. Optimal Sensor Layout using Multi-Objective Metaheuristic. nformation Systems and Grid Technologies, St. Kliment Ohridski University Press, 2011, ISSN:1314-4855, 114-122 – цитирана 1 път
56. **Fidanova S.**, Atanasov K., Marinov P.. Start Strategies of ACO Applied on Subset Problems, Numerical Methods and Applications. Lecture Notes in Computer Science, 6046, Springer, 2011, 248-255. SJR:0.339 – цитирана 6 пъти
57. **Fidanova S.**, Atanasov K., Marinov P.. Generalized Nets in Artificial Intelligence. Vol. 5: Generalized nets and Ant Colony Optimization. Prof. M. Drinov" Academic Publishing House, 2011, 144 – цитирана 10 пъти
58. **Fidanova S.**, Marinov P.. Optimal Wireless Sensor Network Coverage with Ant Colony Optimization. Int. Conf. on Swarm Intelligence, 2011 – цитирана 6 пъти
59. **Fidanova S.**, Marinov P.. Intuitionistic Fuzzy Estimation of the Ant Colony Optimization Starting Points: Part 2. Conf on Intuitionistic fuzzy sets, 2011, ISSN:1310-4926, 75-81
60. **Fidanova S.**, Marinov P.. Ant Colony Optimization Start Strategies: Two Case Studies. BGSIAM, 2011, 29-35
61. **Fidanova S.**, Marinov P., Atanasov K.. Sensitivity Analysis of ACO Start Strategies for Subset Problems. Lecture Notes in Computer Science, 6046, Springer, 2011, 256-263. SJR:0.31 – цитирана 2 пъти
62. Velizarova E., Sotirova E., Atanasov K., Vassilev P., **Fidanova S.** On the Game Method for the Forest Fire Spread Modelling with Considering the Wind Effect. IEEE Conf. on Intelligent Systems, Sofia, 2012, ISBN:978-1-4673-2277-5, 216-220 – цитирана 3 пъти
63. Sotirova E., Atanasov K., **Fidanova S.**, Velizarova E., Vassilev P., Shannon A.. Application of the Game Method for Modelling the Forest Fire Perimeter Expansion. Part 3: A Model of the Forest Fire Speed Propagation in Di\_erent Homogenous Vegetation Types. IFAC Workshop on Dynamics and Con trol in Agriculture and Food Processing, 2012, ISBN:978-954-9641-53-0, 171-174
64. Sotirova E., Atanasov K., **Fidanova S.**, Velizarova E., Vassilev P., Shannon A.. Application of the Game Method for Modelling the Forest Fire Perimeter Expansion. Part 2: A Model Fire Intensity With Effect Of Wind. IFAC Workshop on Dynamics and Con trol in Agriculture and Food Processing, 2012, ISBN:ISBN:978-954-9641-53, 165-170
65. Sotirova E., Atanasov K., **Fidanova S.**, Velizarova E., Vassilev P., Shannon A.. Application of the Game Method for Modelling the Forest Fire Perimeter Expansion. Part 1: A Model Fire In tensity Without Efect Of Wind. IFAC Workshop on Dynamics and Control in Agriculture and Food Processing, 2012, ISBN:978-954-9641-53-0, 159-164
66. Shindarov M., **Fidanova S.**, Marinov P.. Wireless Sensor Positioning Algorithm,. IEEE Conf. on Intelligent Systems, 2012, 419-424 – цитирана 6 пъти
67. Roeva O., **Fidanova S.** Application of Genetic Algorithm and Ant Colony Optimization for Modelling E.Coly Cultivation process,. Genetic Algorithm, In-Tech Pub, 2012, ISBN:979-307-879-2, 21, 261-282 – цитирана 5 пъти
68. Kutiev I., Marinov P., **Fidanova S.**, Belehaki A., Tsagouri I.. Adjustments of the TaD electron density reconstruction model with GNSS TEC parameters for operational application purposes. Space Weather & Space Climate, 2, 21, 2012, ISSN:2115-7251, DOI:10.1051/swsc/20120121, A21p1-A21p7. ISI IF:2.558 – цитирана 4 пъти
69. Belehaki A., Tsagouri I., Kutiev I., Marinov P., **Fidanova S.** Upgrades to the Topside Sounders Model assisted by Digisonde (TaD) and its validation at the topside ionosphere. Space Weather & Space Climate, 2, A20, 2012, ISSN:2115-7251,

DOI:10.1051/swsc/201200120, A20p1-A20p14. JCR-IF (Web of Science):2.558 – цитирана 8 пъти

70. Belehaki A., Tsagouri I., Kutiev I., Marinov P., **Fidanova S.** An improved model for operational specification of the electron density structure up to GNSS orbits assisted by Digisonde data. Ionosphere Effects Symposium, 2012, 204-211
71. Atanassova, V., **Fidanova, S.**, Popchev, I., Chountas, P.. Generalized Nets, ACO Algorithms, and Genetic Algorithms. Monte Carlo Methods and Applications Proceedings of the 8th IMACS Seminar on Monte Carlo Methods, August 29 – September 2, 2011, Borovets, Bulgaria, De Gruyter Proceedings in Mathematics, 2012, ISBN:ISBN 978-3-11-029358, 39-46. SJR:0.056 – цитирана 14 пъти
72. Atanassova V., **Fidanova S.**, Chountas P., Atanassov K.. A generalized net with an ACO-algorithm optimization component. Lecture Notes in Computer Science, 7116, Springer, 2012, 190-197. SJR:0.339 – цитирана 4 пъти
73. **Fidanova S.**, Shindarov M., Marinov P.. Mono-objective Algorithm for Wireless Sensor Layout. OMCO-NET, 2012, ISBN:978-09563140-4-8, 57-63 – цитирана 1 път
74. **Fidanova S.**, Roeva O., Ganzha M.. ACO for Parameter Settings of *E. coli* Fed-batch Cultivation Model. FedCSIS, 2012, ISBN:978-83-60810-51-4, 407-414 – цитирана 1 път
75. **Fidanova S.**, Atanassov K., Marinov P.. Intuitionistic Fuzzy Estimation of the Ant Colony Optimization Starting Points. Lecture Notes in Computer Science, 7116, Springer, 2012, ISBN:9783642298424, ISSN:0377-0427, 03029743, DOI:10.1007/978-3-642-29843-1\_25, 222-229. SJR:0.339 – цитирана 3 път
76. **Fidanova S.**, Marinov P.. Influence of the Parameter R on ACO Start Strategies. BGSIAM, 2012, 38-43 – цитирана 1 път
77. **Fidanova S.**, Marinov P.. Influence of the Number of Ants on Mono-Objective Ant Colony Optimization Algorithm for Wireless Sensor Network Layout. BGSIAM, 2012, ISSN:1314-7145, 59-66 – цитирана 1 път
78. **Fidanova S.**, Marinov P., Alba E.. Wireless Sensor Network Layout, In Monte Carlo Methods and Applications. Monte Carlo Methods and Applications, De Gruyter, 2012, 10, 79-86 – цитирана 1 път
79. **Fidanova S.**, Marinov P., Alba E.. Ant algorithm for optimal sensor deployment. Studies in Computational Intelligence, 399, Springer, 2012, ISSN:1860-949X, DOI:doi:10.1007/978-3-642-29843-1\_21, 21-29. SJR:0.235 – цитирана 36 пъти
80. Dobrinkova N., **Fidanova, S.**, Atanassov, K., Mandel, J.. Game-Method for Modelling and WRF-Fire Model Working Together (Chapter 9). Monte Carlo Methods and Applications (Dimov, I, Sabelfeld, Eds), De Gruyter, 2012, ISBN:9783110293586, 8, 79-86
81. Sotirova E., Bureva V., Velizarova E., **Fidanova S.**, Marinov P., Atanassov K.. Hexagonal Game Method Model of Forest Fire Spread with Intuitionistic Fuzzy Estimations. Notes on Intuitionistic Fuzzy Sets, 19, 3, 2013, ISSN:1310-4926, 73-80 – цитирана 1 път
82. Roeva O., **Fidanova S.**, Paprzycki M.. Influence of the population size on the genetic algorithm performance in case of cultivation process modelling. FedCSIS, IEEE Xplorer, 2013, 371-376 – цитирана 146 пъти
83. **Fidanova S.** Application of HPD Model for Predicting Protein Mutations. Cybernetics and Information Technologies, 13, 4, 2013, ISSN:1311-9702, 95-103. SJR:0.101
84. **Fidanova S.**, Shindarov M., Marinov P.. Multi-Objective Ant Algorithm for Wireless Sensor Network Positioning. Proceedings of the Bulgarian Academy of Sciences, 66, 3, BAS, 2013, ISSN:1310-1331, 353-360. SJR (Scopus):0.25, JCR-IF (Web of Science):0.21 – цитирана 1 път
85. **Fidanova S.**, Roeva O.. Metaheuristic Techniques for Optimization of an *E. coli* Cultivation Model. Biotechnology and Biotechnological equipment, 27, 3, 2013, ISSN:1310-2818, 3870-3876. SJR (Scopus):0.53, JCR-IF (Web of Science):0.3 – цитирана 7 пъти

86. **Fidanova S.**, Roeva O., Ganzha M.. ACO and GA for Parameter Settings of E.coly Fed-Batch Cultivation Model. *Studies in Computational Intelligence*, 470, Springer, 2013, ISBN:978-3-319-00409-9, 51-71. SJR:0.235 – цитирана 1 път
87. **Fidanova S.**, Marinov P.. Number of Ants Versus Number of Iterations on Ant Colony Optimization Algorithm for Wireless Sensor Layout. *Conf. on Robotics Automation and Mechatronics*, 2013, ISSN:1314-4634, 90-93 – цитирана 7 пъти
88. **Fidanova S.**, Marinov P.. Field Fire Simulation Applying Hexagonal Game Method. *Information System and Grid Technology International Conference*, Sofia University pub., 2013, ISSN:1314-4855, 215-221
89. **Fidanova S.**, Marinov P.. Ant Colony Optimization Start Strategies Performance According Some of the Parameters. *Lecture Notes in Computer Science*, 8236, Springer, 2013, 287-294. SJR:0.31 – цитирана 1 път
90. Szmeja P., Wasielewska K., Ganzha M., Drozdowicz M., Paprzycki M., **Fidanova S.**, Lirkov I.. Reengineering and Extending the Agents in Grid Ontology. *Lecture Notes in Computer Science*, 8353, Springer, 2014, ISBN:978-3-662-43879-4, ISSN:0302-9743, DOI:10.1007/978-3-662-43880-0\_65, 517-527. SJR:0.31
91. Sotirova E., Velizarova E., **Fidanova S.**, Atanasov K.. Modeling Forest Fire Spread through a Game Method for Modeling Based on Hexagonal Cells. *Lecture Notes in Computer Science*, 8353, Springer, 2014, ISSN:0302-9743, 296-306. SJR:0.31
92. Roeva O., Slavov Tz., **Fidanova S.** Population-based vs. Single Point Search Meta-heuristics for a PID Controller Tuning. *Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications*, 2, 1, IGI-Global, 2014, ISBN:9781466644502, DOI:10.4018/978-1-4666-4450-2, 34, 200-233 – цитирана 22 пъти
93. Roeva O., **Fidanova S.** Parameter Identification of an E.coli Cultivation Peocess Model Using Hybrid Methaeuristics. *J. of Metaheuristics*, 3, 4, 2014, ISSN:1755-2176, 133-148 – цитирана 3 пъти
94. Roeva O., **Fidanova S.**, Atanasov K.. Hybrid ACO-GA for Parameter Identification of an E. coli Cultivation Process Model, Large-Scale Scientific Computing. *Lecture Notes in Computer Science*, 8353, Springer, 2014, ISSN:0302-9743, 288-295. SJR:0.31 – цитирана 3 пъти
95. **Fidanova S.**, Roeva O.. Hybrid Bat Algorithm for Parameter Identification of an E. coli Cultivation Process Model. *Biotechnology and Biotechnological Equipment*, 27, 6, 2014, ISSN:1310-2818, 4323-4326. SJR (Scopus):0.35, JCR-IF (Web of Science):0.3 – цитирана 14 пъти
96. **Fidanova S.**, Paprzycki M., Roeva O.. Hybrid GA-ACO Algorithm for a Model Parameter Identification Problem. *FedCSIS, IEEE Xplorer*, 2014, ISBN:978-83-60810-58-3, DOI:DOI 10.15439/2014F373, 413-420 – цитирана 29 пъти
97. **Fidanova S.**, Marinov P.. Wind model in a wild fire spread. *Numerical Methods for Scientific Computations and Advanced Applications*, 2014, ISBN:975-954-91700-7-8, 78-87
98. **Fidanova S.**, Marinov P.. Parallel Algorithm for Field Fire Simulation. *BGSIAM*, Cambridge Scholars Publishing, 2014, ISBN:1-4438-6401-3, 78-87
99. **Fidanova S.**, Marinov P., Paprzycki M.. Multi-Objective ACO Algorithm for WSN Layout: Performance According Number of Ants. *J. of Metaheuristics*, 3, 2, InTech, 2014, ISSN:1755-2176, 149-161 – цитирана 18 пъти
100. **Fidanova S.**, Marinov P., Paprzycki M.. Influence of the Number of Ants on Multy-Objective Ant Colony Optimization Algorithm for Wireless Sensor Network Layout. *Lecture Notes in Artificial Intelligence*, 8353, Springer, 2014, ISBN:978-366243879-4, ISSN:0302-9743, 232-239. SJR:0.272 – цитирана 7 пъти
101. **Fidanova S.**, Marinov P., Atanasov K.. New Estimations of Ant Colony Optimization Start Nodes. *Control and Cybernetics*, 43, 3, Polish Academy of Science, 2014, ISSN:0324-8569, 471-485. ISI IF:0.38 – цитирана 1 път

102. Roeva O., Vassilev P., **Fidanova S.**, Gepner P. InterCriteria Analysis of a Model Parameters Identification Using Genetic Algorithm. FedCSIS&#039;2015, EEE Xplorer, 2015, ISBN:978-83-60810-66-1, ISSN:2300-5963, DOI:10.15439/2015F233, 501-506 – цитирана 20 пъти
103. Roeva O., **Fidanova S.**, Paprzycki M.. Population Size Influence on the Genetic and Ant Algorithms Performance in Case of Cultivation Process Modelling. Recent Advances in Computational Optimization: Results of the Worcshop on Computational Optimization WCO 2013, Studies in Computational Intelligence, 580, Springer, 2015, ISBN:978-3-319-12630-2, ISSN:1860-949X, DOI:10.007/978-3-319-12631-9\_7, 107-120. SJR:0.235 – цитирана 43 пъти
104. **Fidanova S.**, Roeva O.. InterCriteria Analysis of Ant Colony Optimzation Application to GPS Surveying Problems. Issues in Intuitionistic Fuzzy Sets and Generalized Nets, 12, 2015, 20-38 – цитирана 9 пъти
105. **Fidanova S.**, Pop P. An Ant Algorithm for the Partitioned Graph Coloring Problem. Lecture Notes in Computer Science, 8962, Springer, 2015, ISBN:ISBN 978-3-319-15584, ISSN:ISSN 0302-9743, DOI:0.1007/978-3-319-15585-2, 78-84. SJR:0.339 – цитирана 3 пъти
106. **Fidanova S.**, Mucherino A., Ganzha M.. Ant Colony Optimization with Environment Changes: An Application to GPS Surveying. FedCSIS&#039;2015, EEE Xplorer, 2015, ISBN:ISBN 978-83-60810-66, ISSN:2300-5963, DOI:DOI 10.15439/2015F33, 495-500 – цитирана 7 пъти
107. Dimov, I, **Fidanova, S**, Lirkov, I. Numerical Methods and Applications. 8th International Conference, NMA 2014, Borovets, Bulgaria, 8962, Springer, 2015, ISBN:978-3-319-15584-5, ISSN:0302-9743, DOI:10.1007/978-3-319-15585-2, VI-VI. SJR:0.369 – цитирана 2 пъти
108. Wasielewska, K., Ganzha, M., Paprzycki, M., Bădică, C., Ivanovic, M., Lirkov, I., **Fidanova, S.** Agents in Grid extended to Clouds. Application of mathematics in technical and natural sciences, 1773, American Institute of Physics, 2016, ISBN:978-0-7354-1431-0, ISSN:0094-243X, DOI:10.1063/14964984, 070002-1-070002-9. SJR:0.198
109. Roeva O., Vassilev P., **Fidanova S.**, Paprzycki M.. InterCriteria Analysis of Genetic Algorithms Performance. Studies in Computational Intelligence, 655, Springer, 2016, ISSN:1860-949X, 235-260. SJR:0.235 – цитирана 9 пъти
110. Roeva O., **Fidanova S.**, Paprzycki M.. InterCriteria Analysis of ACO and GA Hybrid Algorithms. Studies in Computational Intelligence, 610, Springer, 2016, ISBN:978-3-319-21132-9, ISSN:1860-949X, DOI:10.1007/978-3-319-21132-9, 107-126. SJR:0.235 – цитирана 24 пъти
111. Mucherino A., **Fidanova S.**, Ganzha M.. Introducing the Environment in Ant Colony Optimization. Studies in Computational Intelligence, 655, Springer, 2016, ISSN:1860-949X, 147-158. SJR:0.235 – цитирана 7 пъти
112. Marinov P., **Fidanova S.** INTERCRITERIA AND CORRELATION ANALYSES: SIMILARITIES, DIFFERENCES AND SIMULTANEOUS USE. Annual of “Informatics” Section Съюз на учените в България Union of Scientists in Bulgaria, 8, 2016, 45-53 – цитирана 4 пъти
113. **Fidanova S.** Metaheuristic Method for Transport Modelling and Optimization. Studies in Computational Intelligence, 648, Springer, 2016, ISBN:978-3-319-32207-0, ISSN:1860-949X, 295-302. SJR:0.235 – цитирана 2 пъти
114. **Fidanova S.**, Roeva O.. InterCriteria Analysis of Different Metaheuristics Applied to Ecoli Cultivation Process. Numerical Methods for Scientific Computations and Advanced Applications, Fastumprint, 2016, ISBN:978-619-7223-18, 21-25 – цитирана 3 пъти
115. **Fidanova S.**, Roeva O.. InterCriteria Analysis of Ant Colony Optimization Application to GPS Surveying Problems. Issues in Intuitionistic Fuzzy Sets and Generalized Nets, 12, 2016, 20-38 – цитирана 12 пъти

116. **Fidanova S.**, Roeva O., Paprzycki M., Gepner P. InterCriteria Analysis of ACO Start Strategies. IEEE Xplorer, 2016, ISBN:ISBN 978-83-60810-90, DOI:ISBN 978-83-60810-90-3, 547-550 – цитирана 10 пъти
117. **Fidanova S.**, Roeva O., Mucherino A., Kapanova K.. InterCriteria Analysis of ANT Algorithm with Enviroment Change for GPS Surveying Problem. Lecture Notes in Artificial Intelligence, 9883, Springer, 2016, ISBN:978-3-319-44747-6, ISSN:0302-974, 271-278. SJR:0.272 – цитирана 10 пъти
118. **Fidanova S.**, Pop P.. An Improved Hybrid Ant-Local Search Algorithm for the Partition Graph Coloring Problem. Computational and Applied Mathematics, 293, Elsevier, 2016, ISSN:0377-0427, DOI:10.1016/j.cam.2015.04.030, 55-61. SJR:1.104, ISI IF:1.632 – цитирана 26 пъти
119. **Fidanova S.**, Marinov P.. The Impact of the Slope on Fire Spread Simulation. Environment Engineering and Management Journal, 15, 3, 2016, ISSN:1582-9596, 505-510. SJR (Scopus):0.345, JCR-IF (Web of Science):1.334 – цитирана 3 пъти
120. **Fidanova S.**, Ilcheva Z.. Application of Ants Ideas on Image Edge Detection. Large Scale Scientific Computing. Lecture Notes in Computer Science, 9374, Springer, 2016, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.007/978-3-319-26520-9, 218-225. SJR:0.252 – цитирана 4 пъти
121. Roeva O., **Fidanova S.** InterCriteria Analysis of Relations Between Model Parameter Estimations and ACO Performance. Studies in Computational Intelligence, 681, Springer, 2017, ISBN:978-3-319-49543-9, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-319-49544-6\_15, 175-186. SJR:0.235 – цитирана 3 пъти
122. George, S., Ganzha, M., Paprzycki, M., **Fidanova, S.**, Lirkov, I.. Building a Platform to Collect Crowdsensing Data: Preliminary Considerations. Applications of Mathematics in Technical and Natural Sciences, AMiTaNS 2017, 1895, American Institute of Physics, 2017, ISBN:978-0-7354-1579-9, ISSN:0094-243X, DOI:10.1063/1.5007406, 100002-1-100002-14. SJR (Scopus):0.165 – цитирана 1 път
123. **Fidanova, S.**, Atanasov, K., Dimov, I.. Generalized nets as a tool for modelling of railway networks. Studies in Computational Intelligence, 681, Springer Nature, 2017, ISSN:1860-949X; E-ISSN:1860-9503, 23-35. SJR:0.187 – цитирана 3 пъти
124. **Fidanova S.**, Shindarov M., Marinov P.. Wireless Sensor Positioning Using ACO Algorithm. Studies in Computational Intelligence, 657, Springer, 2017, ISBN:978-3-319-41437-9, ISSN:1860-949X, DOI:10.1007/978-3-319-41438-6\_3, 33-44. SJR:0.187 – цитирана 4 пъти
125. **Fidanova S.**, Luque G., Roeva O., Paprzycki M., Gepner P.. Ant Colony Optimization Algorithm for Workforce Planning. IEEE Xplorer, IEEE catalog number CFP1585N-ART, IEEE, 2017, ISBN:978-83-946253-7-5, DOI:http://dx.doi.org/10.15439/978-83-946253-7-5, 415-419 – цитирана 1 път
126. **Fidanova S.**, Atanassov K.. Flying Ant Colony Optimization Algorithm for Combinatorial Optimization. Studia Informatica, 38, 4, Polish Information Sociaty, 2017, ISSN:1642-0489, DOI:http://dx.doi.org/10.21936/si2017\_v38.n4, 31-40 – цитирана 5 пъти
127. Szczekutek R., Ganzha M., Paprzycki M., **Fidanova S.**, Lirkov I., Badica C., Ivanovic M.. System for semantic technology-based access management in a port terminal. Applications of Mathematics in Technical and Natural Sciences, AMiTaNS 2018, 2025, American Institute of Physics, 2018, ISBN:978-0-7354-1745-8, ISSN:0094-243X, DOI:10.1063/1.5064929, 090002-1-090002-17. SJR (Scopus):0.182 – цитирана 2 пъти
128. Roeva O., **Fidanova S.** Comparison of Different Metaheuristic Algorithms based on InterCriteria Analysis. Computational and Applied Mathematics, 340, Elsevier, 2018, ISSN:0377-0427, DOI:https://doi.org/10.1016/j.cam.2017.07.028, 615-628. ISI IF:1.632 – цитирана 34 пъти



129. Roeva O., **Fidanova S.**, Paprzycki M.. Comparison of Different ACO Start Strategies Based on InterCriteria Analysis. Recent Advances in Computational Optimization, Results of the Workshop on Computational Optimization WCO 2016, Studies of Computational optimization, 717, Springer, 2018, ISBN:978-3-319-59860-4, 53-72. SJR (Scopus):0.187 – цитирана 10 пъти
130. Fijałkowski J., Ganzha M., Paprzycki M., **Fidanova S.**, Lirkov I., Badica C., Ivanovic M.. Mining Smartphone Generated Data for User Action Recognition – Preliminary Assessment. Applications of Mathematics in Technical and Natural Sciences, AMiTaNS 2018, 2025, American Institute of Physics, 2018, ISBN:978-0-7354-1745-8, ISSN:0094-243X, DOI:10.1063/1.5064928, 090001-1-090001-18. SJR (Scopus):0.182 – цитирана 1 път
131. Ismaili S., **Fidanova S.** Representation of Civilians and Police Officers by Generalized Nets for Describing Software Agents in the Case of Protest. Studies of Computational Intelligence, 728, Springer, 2018, ISBN:https://doi.org/10.1007/978-3-319-65530-7\_7, ISSN:1860-949X, 71-78. SJR (Scopus):0.187 – цитирана 1 път
132. Ismaili S., **Fidanova S.** Applications of intuitionistic Fuzzy Sets on Agend Based Modeling. Proceedings of Bulgarian Academy of Sciences, 71, 6, Publishin house of Bulgarian Academy of Sciences, 2018, ISSN:1310-1331, DOI:10.7546/CRABS.2018.06.12, 812-819. SJR (Scopus):0.205, JCR-IF (Web of Science):0.251 – цитирана 1 път
133. **Fidanova S.**, Roeva O.. Influence of Ant Colony Optimization Parameters on the Algorithm Performance. Lecture Notes in Computer Science, 10665, Springer, 2018, 358-365. SJR (Scopus):0.31 – цитирана 6 пъти
134. **Fidanova S.**, Roeva O., Atanassova V.. Ant Colony Optimization Application to GPS Surveying Problems: InterCriteria Analysis. Advances in Intelligent Systems and Computing, 559, Springer, 2018, ISBN:978-3-319-65544-4, ISSN:2194-5357, DOI:https://doi.org/10.1007/978-3-319-65545-1\_23, 251-264. SJR (Scopus):0.4 – цитирана 8 пъти
135. **Fidanova S.**, Luque G., Roeva O., Paprzycki M., Gepner P.. Hybrid Ant Colony Optimization Algorithm for Workforce Planning. Annals of Computer Science and Information Systems,, 15, 2018, ISSN:2300-5963, DOI:http://dx.doi.org/10.15439/2018F47, 233-236 – цитирана 4 пъти
136. Evtimov G., **Fidanova S.** Ant Colony optimization algorithm for 1D Cutting Stock Problem. Studies of Computational Intelligence, 728, Springer, 2018, ISBN:978-3-319-65529-1, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-319-65530-7\_3, 25-31. SJR (Scopus):0.187 – цитирана 9 пъти
137. Evtimov G., **Fidanova S.** 2D Optimal Cutting Problem. Studies of Computational Intelligence, 728, Springer, 2018, ISBN:978-3-319-65529-1, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-319-65530-7\_4, 33-39. SJR (Scopus):0.187
138. Zaluski A., Ganzha M., Paprzycki M., Badica C., Badica A., Ivanovic M., **Fidanova S.**, Lirkov I.. Experimenting with facilitating collaborative travel recommendations. International Conference on System Theory, Control and Computing, 2019, ISBN:978-1-7281-0699-1, ISSN:2372-1618, DOI:10.1109/ICSTCC.2019.8885795, 260-265 – цитирана 2 пъти
139. Roeva O., **Fidanova S.**, Luque G., Paprzycki M.. InterCriteria Analysis of ACO Performance for Workforce Planning Problem. Studies in Computational Intelligence, 795, Springer, 2019, ISBN:978-3-319-99647-9, 47-67. SJR (Scopus):0.187 – цитирана 6 пъти
140. Myasnichenko V., Sdobnyakov N., Kirilov L., Mikhov R., **Fidanova S.** Monte-Carlo Approach for Optimizing of Metal Nanowires and Nanoalloys Structure. Lecture Notes in Computer Science, 11189, Springer, 2019, ISBN:978-3-03010691-1, ISSN:03029743, DOI:10.1007/978-3-030-10692-8\_15, 133-141. SJR (Scopus):0.295 – цитирана 4 пъти

141. Kapanova K., **Fidanova S.** Generalized nets: a new approach to model a htags linguistic network on Twitter. *Studies in Computational Intelligence*, 793, Springer, 2019, ISBN:978-3-319-97277-0, 211-221. SJR (Scopus):0.187 – цитирана 5 пъти
142. Ismaili S., **Fidanova S.** Application of Intuitionistic Fuzzy Sets for Conflict Resolution Modeling and Based Simulation. *Bioautomation*, 23, 2, 2019, ISSN:1314-1902, DOI:10.7546/ijba.2019.23.2.000544, 175-184. SJR (Scopus):0.25 – цитирана 1 път
143. Ismaili S., **Fidanova S.** Application of game theory and evolutionary algorithms in solving conflicts in social system. *Bioautomation*, 23, 3, 2019, ISSN:1314-1902, DOI:doi: 10.7546/ijba.2019.23.3.000545, 293-301. SJR (Scopus):0.25 – цитирана 2 пъти
144. **Fidanova S.**, Roeva O.. InterCriteria Analyzis of Differen Variants of ACO algorithm for Wireless Sensor Network Positioning. *Lecture Notes in Computer Science*, 11189, Springer, 2019, 88-96. SJR (Scopus):0.295 – цитирана 6 пъти
145. **Fidanova S.**, Roeva O., Luque G.. Ant Colony Optimization Algorithm for Workforce Planing: Influence of the Algorithm Parameters. *Studies of Computational Intelligence*, 793, Springer, 2019, ISBN:978-3-319-97277-0, 119-128. SJR (Scopus):0.187 – цитирана 1 път
146. **Fidanova S.**, Luque G., Roeva O., Ganzha M.. Ant Colony Optimization Algorithm for Workforce Planning: Influence of the Evaporation Parameter. *Proceedings of the 2019 Federated Conference on Computer Science and Information Systems, Annals of Computer Science and Information Systems*, 2019, ISSN:ISSN 2300-5963, 181-185 – цитирана 4 пъти
147. **Fidanova S.**, Dezert J., Tchamova A.. Inter-Criteria Analysis Based on Belief Functions for GPS Surveying Problems. *IEEE Explorer*, 2019, DOI:DOI: 10.1109/INISTA.2019.8778423 – цитирана 1 път
148. Evtimov G., **Fidanova S.** Subtract two 2D polygons with some maching vertices, *Numerical Methods and Applications. Lecture Notes in Computer Science*, 11189, Springer, 2019, 80-87. SJR (Scopus):0.295
149. Evtimov G., **Fidanova S.** Analyses and Boolean Operation of 2D Poligons. *Studies of Computational Intelligence*, 793, Springer, 2019, ISBN:978-3-319-97277-0, 107-118. SJR (Scopus):0.187
150. Roeva O., **Fidanova S.** Different InterCriteria Analysis of Variants of ACO algorithm for Wireless Sensor Network Positioning. *Studies in Computational Intelligence*, 838, Springer, 2020, ISBN:978-3-030-22723-4, DOI:10.1007/978-3-030-22723-4\_6, 83-103. SJR (Scopus):0.183 – цитирана 4 пъти
151. Myasnichenko V., Sdobnyakov N., Kirilov L., Mikhov R., **Fidanova S.** Structural Instability of Gold and Bimetallic Nanowires Using Monte Carlo Simulation. *Studies in Computational Intelligence*, 838, Springer, 2020, ISBN:978-3-030-22723-4, DOI:https://doi.org/10.1007/978-3-030-22723-4\_9, 133-145. SJR (Scopus):0.183 – цитирана 6 пъти
152. Dezert J., Tchamova A., **Fidanova S.**, Deqiang H.. Two Applications of Inter-Criteria Analysis With Belief Functions. 20, 5, *Cybernetics and Information Technologies Journal*, 2020, ISSN:Print ISSN: 1311-9702 Online ISSN: 1314-4081, DOI:DOI: https://doi.org/10.2478/cait-2020-0039, 38-59. SJR (Scopus):0.3
153. Todorov V., Dimitrov Y., Miriyanov R., Dimov I., **Fidanova S.**, Poryazov S.. An Optimization on Quadrature Formulas and Numerical Solutions of Ordinary DifferentialEquations. *Annals of Computer Science and Information Systems*, 23, 2020, ISBN:978-83-959183-2-2, ISSN:2300-5963, DOI:10.15439/2020F115, 13-16
154. Todorov V., Apostolov S., Dimov I., **Fidanova S.** A New Optimized Stochastic Approach forMultidimensional Integrals in Machine Learning. *Annals of Computer Science and Information Systems*, 21, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F110, 337-340

155. Todorov V., Ostromsky Tz., Dimov I., **Fidanova S.** Optimized Quasi-Monte Carlo Method Based on Low Discrepancy Sequences for Sensitivity Analysis in Air Pollution Modelling. *Annals of Computer Science and Information Systems*, 23, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F108, 25-28 – цитирана 1 път
156. Todorov V., Ostromsky Tz., Dimov I., **Fidanova S.** Sensitivity Study of a Large-Scale Air Pollution Model by Using Optimized Stochastic Algorithm. *Annals of Computer Science and Information Systems*, 23, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F107, 29-32
157. Todorov V., Dimov I., Apostolov S., **Fidanova S.**, Dimitrov Y., Poryazov S.. An Optimal Monte Carlo Algorithm for a Class of Multidimensional Integrals. *Annals of Computer Science and Information Systems*, 23, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F112, 17-20 – цитирана 2 пъти
158. Todorov V., Dimov I., **Fidanova S.**, Poryazov S.. A New Optimized Stochastic Approach for Multiple Integrals in Option Pricing. *Annals of Computer Science and Information Systems*, 23, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, 21-24
159. Todorov V., Dimov I., **Fidanova S.**, Poryazov S.. A New Optimized Adaptive Approach for Estimation of the Wigner Kernel. *Annals of Computer Science and Information Systems*, 21, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F111, 341-344
160. Mikhov R., Myasnichenko V., Kirilov L., Sdobnyakov N., Matrenin P., Sokolov D., **Fidanova S.** A Two-Stage Monte Carlo Approach for Optimization of Bimetallic Nanostructures. *Annals of Computer Science and Information Systems*, 21, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, DOI:10.15439/2020F135, 285-288 – цитирана 3 пъти
161. **Fidanova S.**, Dezert, J., Tchamova, A.. Fast BF-ICrA Method for the Evaluation of MO-ACO Algorithm for WSN Layout. Volume 21, *Annals of Computer Science and Information Systems, Proceedings of the 2020 Federated Conference on Computer Science and Information Systems*, 2020, ISBN:ISBN 978-83-955416-7-4 (Web), DOI:DOI: <http://dx.doi.org/10.15439/2020F10>, 241-249
162. **Fidanova S.** Hybrid Ant Colony Optimization Algorithm for Multiple Knapsack Problem. 5th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), IEEE, 2020, DOI:10.1109/ICRAIE51050.2020.9358351, 1-5 – цитирана 8 пъти
163. **Fidanova S.**, Roeva O.. Multi-Objective ACO Algorithm for WSN Layout: InterCriteria Analysis. *Lecture Notes in Computer Science*, 11958, Springer, 2020, ISBN:978-3-030-410315, 474-481. SJR (Scopus):0.238 – цитирана 3 пъти
164. **Fidanova S.**, Roeva O., Luque G., Paprzycki M.. InterCriteria Analysis of Different Hybrid Ant Colony Optimization Algorithms for Workforce Planning. *Studies in Computational Intelligence*, 838, Springer, 2020, ISBN:978-3-030-22723-4, 61-81. SJR (Scopus):0.183 – цитирана 6 пъти
165. **Fidanova S.**, Roeva O., Ganzha M.. Ant Colony Optimization Algorithm for Fuzzy Transport Modelling. *Annals of Computer Science and Information Systems*, 21, 2020, ISBN:978-83-955416-7-4, ISSN:2300-5963, 237-240 – цитирана 9 пъти
166. **Fidanova S.**, Luque G.. New Local Search Procedure for Workforce Planning Problem. *CYBERNETICS AND INFORMATION TECHNOLOGIES*, 20, 6, 2020, ISSN:1311-9702, DOI:10.2478/cait-2020-0059, 40-48. SJR (Scopus):0.31
167. Todorov D., Todorov V., **Fidanova S.** Optimized Nano Grid Approach for Small Critical Loads. *Annals of Computer Science and Information Systems*, 26, Polish Academy of Sciences, 2021, ISSN:2300-5963, DOI:10.15439/2021F56, 81-84
168. Roeva O., **Fidanova S.**, Ganzha M.. InterCriteria Analysis of the Evaporation Parameter Influence on Ant Colony Optimization Algorithm: A Workforce Planning Problem. *Studies in Computational Intelligence*, 920, Springer, 2021, ISBN:978-3-030-

- 58883-0, ISSN:1860-949X, DOI:10.1007/978-3-030-58884-7, 89-109. SJR (Scopus):0.237 – цитирана 1 път
169. Myasnichenko V., **Fidanova S.**, Mikhov R., Kirilov L., Sdobnyakov N.. Representation of Initial Temperature as a Function in Simulated Annealing Approach for Metal Nanoparticle Structures Modeling. Studies in Computational Intelligence, 902, Springer, 2021, ISBN:978-3-030-55347-0, ISSN:1860-949X, DOI:10.1007/978-3-030-55347-0\_6, 61-72. SJR (Scopus):0.237
170. Matrenin P, Myasnichenko V., Sdobnyakov N., Sokolov D., **Fidanova S.**, Kirilov L., Mikhov R.. Generalized Swarm Intelligence Algorithms with Domain-Specific Heuristics. IAES International Journal of Artificial Intelligence, 10, 1, 2021, ISSN:2089-4872, DOI:10.11591/ijai.v10.i1.pp157-165, 157-165. SJR (Scopus):0.12 – цитирана 7 пъти
171. Kishkin K., Arnaudov D., Todorov V., **Fidanova S.** Multicriterial evaluation and optimization of an algorithm for charging energy storage elements. Computer Science and Intelligence Systems, 26, 2021, ISSN:2300-5963, DOI:10.15439/2021F55, 61-64 – цитирана 2 пъти
172. Adasiewicz, R, Ganzha, M, Paprzycki, M, Ivanovic, M, Badica, C, Lirkov, I, **Fidanova, S.** Harizanov, S. Optimal Placement of Internet of Things Infrastructure in a Smart Building. Lecture Notes in Networks and Systems, 166, Springer, 2021, ISSN:23673370, DOI:10.1007/978-981-15-9689-6\_73, 661-669. SJR (Scopus):0.151 – цитирана 1 път
173. Todorov V., **Fidanova S.**, Dimov I., Poryazov S.. An Optimized Technique for Wigner Kernel Estimation. Annals of Computer Science and Information Systems, 25, IEEE, 2021, ISBN:978-83-959183-6-0, ISSN:2300-5963, DOI:10.15439/2021F84, 235-238
174. Todorov V., Dimov I., **Fidanova S.** Optimized Method based on Lattice Sequences for Multidimensional Integrals in Neural Networks. Annals of Computer Science and Information Systems, 25, IEEE, 2021, ISBN:978-83-959183-6-0, ISSN:2300-5963, DOI:10.15439/2021F53, 243-246
175. Todorov V., Dimov I., **Fidanova S.**, Poryazov S.. Optimized lattice rule and adaptive approach for multidimensional integrals with applications. Preprints of Position and Communication Papers of the Federated Conference on Computer Science and Information Systems, 26, 2021, ISSN:2300-5963, DOI:10.15439/2021F94, 75-80 – цитирана 1 път
176. Todorov V., Dimov I., **Fidanova S.**, Apostolov S.. An Optimized Stochastic Techniques related to Option Pricing. Annals of Computer Science and Information Systems, 25, IEEE, 2021, ISBN:978-83-959183-6-0, ISSN:2300-5963, DOI:10.15439/2021F52, 247-250
177. Todorov V., Dimov I., **Fidanova S.**, Georgieva R.. Optimized stochastic approach for integral equations. Annals of Computer Science and Information Systems, 25, IEEE, 2021, ISBN:978-83-959183-6-0, ISSN:2300-5963, DOI:10.15439/2021F54, 239-242
178. Mikhov R., Myasnichenko V., **Fidanova S.**, Kirilov L., Sdobnyakov N.. Influence of the temperature on Simulated Annealing Method for Metal Nanoparticle Structures Optimization. Studies in Computational Intelligence, 961, Springer, 2021, ISBN:978-3-030-71616-8, ISSN:1860-9503, DOI:https://doi.org/10.1007/978-3-030-71616-5\_25, 278-290. SJR (Scopus):0.237
179. **Fidanova S.** Ant Colony Optimization and Applications. Studies in Computational Intelligence, 947, Springer, 2021, ISBN:978-3-030-67380-2, DOI:https://doi.org/10.1007/978-3-030-67380-2, 142, SJR (Scopus):0.237 – цитирана 26 пъти
180. **Fidanova S.**, Stoykova V.. Teaching Supercomputers. Studies in Computational Intelligence, 902, Springer, 2021, ISBN:978-3-030-55346-3, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-030-55347-0\_10, 108-117. SJR (Scopus):0.237
181. **Fidanova S.**, Roeva O., Ganzha M.. InterCriteria Analyzis of Hybrid Ant Colony Optimization Algorithm for Multiple Knapsack Problem. Annals of Computer Science and

- Information Systems,, 25, IEEE, 2021, ISBN:978-83-959183-6-0, ISSN:2300-5963, DOI:10.15439/2021F22, 173-180 – цитирана 5 пъти
182. **Fidanova S.**, Atanassov K.. Generalized Net Model for Flying Ant Colony Optimization. Studies in Computational Intelligence, 961, Springer, 2021, ISBN:978-3-030-71615-8, ISSN:1860-9503, DOI:10.1007/978-3-030-71616-5\_10, 90-98. SJR (Scopus):0.237
  183. **Fidanova S.**, Atanassov K.. ACO with Intuitionistic Fuzzy Pheromone Updating Applied on Multiple Knapsack Problem. Mathematics, 9, 13, MDPI, 2021, ISSN:2227-7390, DOI:10.3390/math9131456, 1-7. JCR-IF (Web of Science):2.592 – цитирана 4 пъти
  184. Saad E., Paprzycki M., Ganzha M., Bădică A., Bădică C., **Fidanova S.**, Lirkov I., Ivanovic M.. Generalized Zero-shot Learning for Image Classification – comparing performance of popular approaches. Information, 13, 12, MDPI, 2022, ISSN:2078-2489, DOI:10.3390/info13120561, 561. SJR (Scopus):0.624, JCR-IF (Web of Science):0.62 – цитирана 2 пъти
  185. Myasnichenko, V., Mikhov, R., Kirilov, L., Sdobnyakov, N., Sokolov, D., **Fidanova, S.** Simulation of Diffusion Processes in Bimetallic Nanofilms. Studies in Computational Intelligence, 986, Springer, 2022, ISBN:978-3-030-82396-2, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-030-82397-9\_11, 221-233. SJR (Scopus):0.237
  186. Dezert Jean, **Fidanova S.**, Tchamova A.. Evaluation of MO-ACO Algorithms Using a New Fast Inter-Criteria Analysis Method. Recent Advances in Computational Optimization, Studies in Computational Intelligence 986, Springer, 2022, DOI:https://doi.org/10.1007/978-3-030-82397-9\_3, 53-79. SJR (Scopus):0.24
  187. Bădică, A, Bădică, C, Bolanowski, M, **Fidanova, S**, Ganzha, M, Harizanov, S, Ivanovic, M, Lirkov, I, Paprzycki, M, Paszkiewicz, A, Tomczyk, K. Cascaded Anomaly Detection with Coarse Sampling in Distributed Systems. In: Sachdeva, S., Watanobe, Y., Bhalla, S. (eds) Big-Data-Analytics in Astronomy, Science, and Engineering. BDA 2021. Lecture Notes in Computer Science, 13167, Springer, 2022, ISBN:978-3-030-96599-0, ISSN:03029743, DOI:10.1007/978-3-030-96600-3\_13, 181-200. SJR (Scopus):0.32 – цитирана 1 път
  188. Todorov V., **Fidanova S.**, Dimov I., Poryazov S., Apostolov S., Todorov D.. Advanced Stochastic Approaches for Multidimensional Integrals in Neural Networks. Studies in Computational Intelligence, 986, Springer, 2022, ISBN:978-3-030-82396-2, DOI:10.1007/978-3-030-82397-9\_22, 425-438. SJR (Scopus):0.237
  189. Todorov V., Dimov I., **Fidanova S.**, Ostromsky Tz., Georgieva R.. Optimized Monte Carlo Methods for Sensitivity Analysis for Large-Scale Air Pollution Model. Studies in Computational Intelligence, 1044, Springer, 2022, ISBN:978-3-031-06838-6, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-031-06839-3\_15, 277-288. SJR (Scopus):0.237
  190. Todorov V., Dimov I., **Fidanova S.**, Georgieva R., Ostromsky Tz., Poryazov S.. An Optimized Monte Carlo Approach for Multidimensional Integrals Related to Intelligent Systems. Annals of Computer Science and Information Systems, 32, 2022, ISBN:978-83-965897-4-3, ISSN:2300-5963, DOI:http://dx.doi.org/10.15439/2022F84, 101-104
  191. Mikhov, R., Myasnichenko, V., Kirilov, L., Sdobnyakov, N., Matrenin, P., Sokolov, D., **Fidanova, S.** On the Problem of Bimetallic Nanostructures Optimization: An Extended Two-Stage Monte Carlo Approach. Studies in Computational Intelligence, 986, Springer, 2022, ISBN:978-3-030-82396-2, ISSN:1860-949X, DOI:https://doi.org/10.1007/978-3-030-82397-9\_12, 235-250. SJR (Scopus):0.237 – цитирана 3 пъти
  192. **Fidanova S.**, Roeva O.. Influence of the ACO Evaporation Parameter for Unstructured Workforce Planning Problem. Lecture Notes in Computer Science, 13127, Springer, 2022, ISSN:0302-9743, DOI:10.1007/978-3-030-97549-4\_27, 234-241. SJR (Scopus):0.249
  193. **Fidanova S.**, Roeva O., Ganzha M.. Ant Colony Optimization Algorithm for Fuzzy Transport Modelling: InterCriteria Analysis. Studies in Computational Intelligence, 986,

Springer, 2022, ISBN:978-3-030-82396-2, ISSN:1860-949X, DOI:DOI  
[https://doi.org/10.1007/978-3-030-82397-9\\_6](https://doi.org/10.1007/978-3-030-82397-9_6), 123-137. SJR (Scopus):0.237 – цитирана 1 път

194. **Fidanova S.**, Ganzha M., Roeva O.. Hybrid Ant Colony Optimization Algorithms – Behaviour Investigation Based on Intuitionistic Fuzzy Logic. *Studies in Computational Intelligence*, 1044, Springer, 2022, ISBN:978-3-031-06838-6, ISSN:1860-949X, DOI:10.1007/978-3-031-06839-3\_3, 39-60. SJR (Scopus):0.237 – цитирана 2 пъти
195. **Fidanova S.**, Zhivkov P., Roeva O.. InterCriteria Analysis Applied on Air Pollution Influence on Morbidity. *Mathematics*, 10, 7, MDPI, 2022, ISSN:2227-7390, DOI:10.3390/math10071195, 1195. JCR-IF (Web of Science):2.258 – цитирана 5 пъти
196. **Fidanova S.**, Dimov I., Angelova D., Ganzha M.. Agricultural System Modelling with Ant Colony Optimization. *Annals of Computer Science and Information Systems*, 30, 2022, ISBN:978-83-962423-9-6, ISSN:2300-5963, DOI:<http://dx.doi.org/10.15439/2022F10>, 329-333
197. Dimitrov Y., Todorov V., Maryanov R., **Fidanova S.**, Rusinek J.. Generating Functions and Approximations of the Caputo Fractional Derivative. *Communications in Computer and Information Science*, 1749, Springer, 2023, ISSN:1865-0929, DOI:[https://doi.org/10.1007/978-3-031-25088-0\\_4](https://doi.org/10.1007/978-3-031-25088-0_4), 48-66. SJR (Scopus):0.21
198. **Фиданова, С.**.. Метод на мравките за решаване на комбинаторни оптимизационни задачи. Автореферати на дисертации на ИИКТ-БАН, 2023, 8, ИИКТ-БАН, 2023, ISSN:1314-6351
199. **Fidanova, S.**, Atanassov, K., Kirilov, L., Slavova V., Ivanov, V.. Generalized Net Model for the Consequences of Earthquake. *Lecture Notes in Networks and Systems*, 658, Springer, 2023, ISBN:978-3-031-31068-3, ISSN:2367-3370, DOI:[https://doi.org/10.1007/978-3-031-31069-0\\_28](https://doi.org/10.1007/978-3-031-31069-0_28), 281-292. SJR (Scopus):0.151
200. **Fidanova S.**, Ganzha M.. Ant Colony Optimization for Workforce Planning with Hybridization. *Annals of Computer Science and Information Systems*, 35, IEEE, 2023, ISBN:978-83-967447-8-4, ISSN:2300-5963, DOI:<http://dx.doi.org/10.15439/2023F9586>, 949-953
201. **Fidanova S.**, Atanassov K.. New Ant Colony Optimization Including Weights. *Studies in Computational Intelligence*, 1111, Springer, 2023, ISBN:978-3-031-42009-2, ISSN:1860-949X, DOI:[https://doi.org/10.1007/978-3-031-42010-8\\_7](https://doi.org/10.1007/978-3-031-42010-8_7), 66-72. SJR (Scopus):0.209
202. **Fidanova S.**, Atanassov K.. Ant Algorithm for GPS Surveying Problem with Fuzzy Pheromone Updating. *Lecture Notes in Computer Sciences*, 13858, Springer, 2023, ISBN:978-3-031-32411-6, DOI:[https://doi.org/10.1007/978-3-031-32412-3\\_11](https://doi.org/10.1007/978-3-031-32412-3_11), 127-133. SJR (Scopus):0.32
203. Stepanek L., Habarta F., Mala I., Marek L., **Fidanova S.**.. Application of an Inverse Dirichlet's Principle to Discrete Recreational Problems: Bound Estimation's Optimization using Combinatorial Probability and Comparison of Numerical Bound Estimation using Various Algorithms, including Recursive Inclusion-Exclusion Principle. *Studies in Computational Intelligence*, 1158, Springer, 2024, ISBN:978-3-031-57319-4, ISSN:1860-9503, DOI:10.1007/978-3-031-57320-0\_16, 289-313. SJR (Scopus):0.237
204. Czerniak J., Ewald D., Paprzycki M., **Fidanova S.**, Ganzha M.. A new Artificial Duroc Pigs Optimization method used for the optimization of functions. *Electronics*, 13, 7, MDPI, 2024, ISSN:2079-9292, DOI:10.3390/electronics13071372, 1372. JCR-IF (Web of Science):2.9
205. **Fidanova S.**, Atanassov K.. Ant Algorithm with Local Search Procedure for Multiple Knapsack Problem. *Lecture Notes in Computer Sciences*, 13952, Springer, 2024, ISBN:978-3-031-56207-5, ISSN:0302-9743, DOI:[https://doi.org/10.1007/978-3-031-56208-2\\_24](https://doi.org/10.1007/978-3-031-56208-2_24), SJR (Scopus):0.32

206. **Fidanova S.**, Dimov I., Angelova D., Ganzha M.. Application of Methaeuristics for Agricultural System Modelling. Studies in Computational Intelligence, 1158, Springer, 2024, ISBN:978-3-031-57319-4, ISSN:1860-9503, DOI:[https://doi.org/10.1007/978-3-031-57320-0\\_6](https://doi.org/10.1007/978-3-031-57320-0_6), 88-109. SJR (Scopus):0.237
207. **Fidanova S.**, Atanassov K.. Ant Algorithm with Local Search Procedure for Multiple Knapsack Problem. Lecture Notes in Computer Sciences, 13952, Springer, 2024, ISBN:978-3-031-56207-5, ISSN:0302-9743, DOI:[https://doi.org/10.1007/978-3-031-56208-2\\_24](https://doi.org/10.1007/978-3-031-56208-2_24), 246-252. SJR (Scopus):0.32 Q2 (Scopus)
208. Czerniak J., Ewald D., Paprzycki M., **Fidanova S.**, Ganzha M.. A new Artificial Duroc Pigs Optimization method used for the optimization of functions. Electronics, 13, 7, MDPI, 2024, ISSN:2079-9292, DOI:10.3390/electronics13071372, 1372. **JCR-IF (Web of Science):2.9 Q2 (Web of Science)**
209. Stepanek L., Habarta F., Mala I., Marek L., **Fidanova S.**. Application of an Inverse Dirichlet's Principle to Discrete Recreational Problems: Bound Estimation's Optimization using Combinatorial Probability and Comparison of Numerical Bound Estimation using Various Algorithms, including Recursive Inclusion-Exclusion Principle. Studies in Computational Intelligence, 1158, Springer, 2024, ISBN:978-3-031-57319-4, ISSN:1860-9503, DOI:10.1007/978-3-031-57320-0\_16, 289-313. SJR (Scopus):0.237 Q3 (Scopus)