

# Iztok Fister Jr

## List of Publications by Citations

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144  
papers

2,862  
citations

24  
h-index

51  
g-index

167  
ext. papers

3,446  
ext. citations

2.1  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
144	A comprehensive review of firefly algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2013</b> , 13, 34-46	9.8	764
143	A review of chaos-based firefly algorithms: Perspectives and research challenges. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 252, 155-165	2.7	147
142	Swarm Intelligence Algorithms for Feature Selection: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1521	2.6	128
141	Sensors and Functionalities of Non-Invasive Wrist-Wearable Devices: A Review. <i>Sensors</i> , <b>2018</b> , 18,	3.8	117
140	Modified firefly algorithm using quaternion representation. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 7220-7230	7.8	110
139	Planning the sports training sessions with the bat algorithm. <i>Neurocomputing</i> , <b>2015</b> , 149, 993-1002	5.4	86
138	A Discrete and Improved Bat Algorithm for solving a medical goods distribution problem with pharmacological waste collection. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 273-286	9.8	80
137	Hybrid self-adaptive cuckoo search for global optimization. <i>Swarm and Evolutionary Computation</i> , <b>2016</b> , 29, 47-72	9.8	76
136	Multi-Objective Differential Evolution for feature selection in Facial Expression Recognition systems. <i>Expert Systems With Applications</i> , <b>2017</b> , 89, 129-137	7.8	71
135	A novel hybrid self-adaptive bat algorithm. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 709738	2.2	64
134	Cuckoo Search: A Brief Literature Review. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 49-62	0.8	60
133	Computational intelligence in sports: Challenges and opportunities within a new research domain. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 262, 178-186	2.7	59
132	Parameter tuning of PID controller with reactive nature-inspired algorithms. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 84, 64-75	3.5	57
131	A comprehensive review of cuckoo search: variants and hybrids. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , <b>2013</b> , 4, 387	0.3	49
130	Memetic artificial bee colony algorithm for large-scale global optimization <b>2012</b> ,		45
129	Bio-inspired computation: Recent development on the modifications of the cuckoo search algorithm. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 61, 149-173	7.5	44
128	Artificial neural network regression as a local search heuristic for ensemble strategies in differential evolution. <i>Nonlinear Dynamics</i> , <b>2016</b> , 84, 895-914	5	44

127	Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2016</b> , 142, 04015044	1.1	36
126	Toward the Discovery of Citation Cartels in Citation Networks. <i>Frontiers in Physics</i> , <b>2016</b> , 4,	3.9	35
125	Online Adaptive Controller Based on Dynamic Evolution Strategies. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2076	2.6	30
124	Modified binary cuckoo search for association rule mining. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 4319-4330	1.6	27
123	A Systematic Literature Review of Intelligent Data Analysis Methods for Smart Sport Training. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3013	2.6	27
122	Self-adaptive differential evolution algorithm with a small and varying population size <b>2012</b> ,		25
121	Bioinspired Computational Intelligence and Transportation Systems: A Long Road Ahead. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 466-495	6.1	25
120	Firefly Algorithm: A Brief Review of the Expanding Literature. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 347-360	0.8	24
119	Adaptation and Hybridization in Nature-Inspired Algorithms. <i>Adaptation, Learning, and Optimization</i> , <b>2015</b> , 3-50	0.7	24
118	A biometric authentication model using hand gesture images. <i>BioMedical Engineering OnLine</i> , <b>2013</b> , 12, 111	4.1	24
117	Bat algorithm: Recent advances <b>2014</b> ,		23
116	Particle swarm optimization for automatic creation of complex graphic characters. <i>Chaos, Solitons and Fractals</i> , <b>2015</b> , 73, 29-35	9.3	22
115	Novelty search for global optimization. <i>Applied Mathematics and Computation</i> , <b>2019</b> , 347, 865-881	2.7	22
114	Analysis of randomisation methods in swarm intelligence. <i>International Journal of Bio-Inspired Computation</i> , <b>2015</b> , 7, 36	2.9	21
113	Memetic Self-Adaptive Firefly Algorithm <b>2013</b> , 73-102		21
112	NiaPy: Python microframework for building nature-inspired algorithms. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 613	5.2	21
111	Real Parameter Single Objective Optimization using self-adaptive differential evolution algorithm with more strategies <b>2013</b> ,		19
110	A hybrid self-adaptive evolutionary algorithm for marker optimization in the clothing industry. <i>Applied Soft Computing Journal</i> , <b>2010</b> , 10, 409-422	7.5	19

109	Swarm Intelligence Approaches for Parameter Setting of Deep Learning Neural Network <b>2018</b> ,		18
108	On the Randomized Firefly Algorithm. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 27-48	0.8	17
107	Graph 3-coloring with a hybrid self-adaptive evolutionary algorithm. <i>Computational Optimization and Applications</i> , <b>2013</b> , 54, 741-770	1.4	16
106	Towards the novel reasoning among particles in PSO by the use of RDF and SPARQL. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 121782	2.2	15
105	Design and implementation of domain-specific language easytime. <i>Computer Languages, Systems and Structures</i> , <b>2011</b> , 37, 151-167		15
104	Data Mining in Sporting Activities Created by Sports Trackers <b>2013</b> ,		14
103	A comprehensive database of Nature-Inspired Algorithms. <i>Data in Brief</i> , <b>2020</b> , 31, 105792	1.2	13
102	Post hoc analysis of sport performance with differential evolution. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 10799-10808	4.8	13
101	Computational Intelligence in Sports. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> ,	0.7	12
100	Modified bat algorithm with quaternion representation <b>2015</b> ,		11
99	Gesture Recognition from Data Streams of Human Motion Sensor Using Accelerated PSO Swarm Search Feature Selection Algorithm. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-16	2	11
98	Generating eating plans for athletes using the particle swarm optimization <b>2016</b> ,		11
97	Parameterless Bat Algorithm and Its Performance Study. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 267-276	0.8	10
96	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 69-89	0.8	9
95	Parameter Setting for Deep Neural Networks Using Swarm Intelligence on Phishing Websites Classification. <i>International Journal on Artificial Intelligence Tools</i> , <b>2019</b> , 28, 1960008	0.9	9
94	Hybrid Modified Firefly Algorithm for Border Detection of Skin Lesions in Medical Imaging <b>2019</b> ,		8
93	A short discussion about Economic optimization design of shell-and-tube heat exchangers by a cuckoo-search-algorithm <i>Applied Thermal Engineering</i> , <b>2015</b> , 76, 535-537	5.8	8
92	Differential evolution strategies with random forest regression in the bat algorithm <b>2013</b> ,		8

91	Datasets for phishing websites detection. <i>Data in Brief</i> , <b>2020</b> , 33, 106438	1.2	8
90	Differential Evolution for Association Rule Mining Using Categorical and Numerical Attributes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 79-88	0.9	8
89	Interestingness measure for mining sequential patterns in sports. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2015</b> , 29, 1981-1994	1.6	7
88	Automatic Detection of Heartbeats in Heart Sound Signals Using Deep Convolutional Neural Networks. <i>Elektronika Ir Elektrotechnika</i> , <b>2019</b> , 25, 71-76	1.7	7
87	A Hybrid Artificial Bee Colony Algorithm for Graph 3-Coloring. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 66-74	0.9	7
86	How to Deal with Sports Activity Datasets for Data Mining and Analysis. <i>International Journal of Advanced Pervasive and Ubiquitous Computing</i> , <b>2015</b> , 7, 27-37	0.3	6
85	On Selection of a Benchmark by Determining the Algorithms Qualities. <i>IEEE Access</i> , <b>2021</b> , 9, 51166-51178	3.5	6
84	Generating the Training Plans Based on Existing Sports Activities Using Swarm Intelligence. <i>Modeling and Optimization in Science and Technologies</i> , <b>2017</b> , 79-94	0.6	5
83	Hybrid evolutionary algorithm for the b-chromatic number. <i>Journal of Heuristics</i> , <b>2015</b> , 21, 501-521	1.9	5
82	DNA labelling of varieties covered by patent protection: a new solution for managing intellectual property rights in the seed industry. <i>Transgenic Research</i> , <b>2017</b> , 26, 87-95	3.3	5
81	Widespread Mobile Devices in Applications for Real-time Drafting Detection in Triathlons. <i>Journal of Emerging Technologies in Web Intelligence</i> , <b>2013</b> , 5,		5
80	Information Cartography in Association Rule Mining. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-17	4.1	5
79	Automatic Fitting of Feature Points for Border Detection of Skin Lesions in Medical Images with Bat Algorithm. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 357-368	0.8	5
78	Epistatic arithmetic crossover based on Cartesian graph product in ensemble differential evolution. <i>Applied Mathematics and Computation</i> , <b>2016</b> , 283, 181-194	2.7	4
77	Discovering dependencies among mined association rules with population-based metaheuristics <b>2019</b> ,		4
76	Adaptation and Hybridization in Computational Intelligence. <i>Adaptation, Learning, and Optimization</i> , <b>2015</b> ,	0.7	4
75	Towards Automatic Food Prediction During Endurance Sport Competitions <b>2014</b> ,		4
74	A study of chaotic maps in differential evolution applied to gray-level image thresholding <b>2016</b> ,		4

73	BatMiner for Identifying the Characteristics of Athletes in Training. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 201-221	0.7	4
72	Solving Agile Software Development Problems with Swarm Intelligence Algorithms. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 298-309	0.5	4
71	A novel self-adaptive differential evolution for feature selection using threshold mechanism <b>2018</b> ,		4
70	Bat Algorithm Swarm Robotics Approach for Dual Non-cooperative Search with Self-centered Mode. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 201-209	0.9	4
69	Synergy of Blockchain Technology and Data Mining Techniques for Anomaly Detection. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7987	2.6	4
68	Making up for the deficit in a marathon run <b>2017</b> ,		3
67	Framework for planning the training sessions in triathlon <b>2018</b> ,		3
66	Using Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 534-542	0.3	3
65	Cuckoo Search Algorithm for Border Reconstruction of Medical Images with Rational Curves. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 320-330	0.9	3
64	On the Mutation Operators in Evolution Strategies. <i>Adaptation, Learning, and Optimization</i> , <b>2015</b> , 69-89	0.7	3
63	Using differential evolution for the graph coloring <b>2011</b> ,		3
62	Implementation of EasyTime formal semantics using a LISA compiler generator. <i>Computer Science and Information Systems</i> , <b>2012</b> , 9, 1019-1044	0.8	3
61	Easytime++: A Case Study Of Incremental Domain-Specific Language Development. <i>Information Technology and Control</i> , <b>2013</b> , 42,	1.3	3
60	Modified OFS-RDS bat algorithm for IFS encoding of bitmap fractal binary images. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 47, 101222	7.4	3
59	A Brief Overview of Swarm Intelligence-Based Algorithms for Numerical Association Rule Mining. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2021</b> , 47-59	1.8	3
58	Continuous Optimizers for Automatic Design and Evaluation of Classification Pipelines. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2020</b> , 281-301	1.8	2
57	Scrum Task Allocation Based on Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 38-49	0.9	2
56	Computing rational border curves of melanoma and other skin lesions from medical images with bat algorithm <b>2019</b> ,		2

55	Hybridizing differential evolution and novelty search for multimodal optimization problems <b>2019</b> ,		2
54	Modeling preference time in middle distance triathlons <b>2017</b> ,		2
53	Congenital Central Hypoventilation Syndrome: A Comprehensive Review and Future Challenges. <i>Journal of Respiratory Medicine</i> , <b>2014</b> , 2014, 1-8		2
52	A Novel Framework for Unification of Association Rule Mining, Online Analytical Processing and Statistical Reasoning. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	2
51	Applying Differential Evolution with Threshold Mechanism for Feature Selection on a Phishing Websites Classification. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 11-18	0.3	2
50	Deep Analytics Based on Triathlon Athletes Blogs and News. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 279-289	0.4	2
49	Parameterless Harmony Search for Image Multi-thresholding		2
48	Use of stochastic nature-inspired population-based algorithms within an online adaptive controller for mechatronic devices. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 95, 106559	7.5	2
47	Generating Training Plans Based on Existing Sports Activities. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 139-180	0.7	2
46	Visualization of Sports Activities Created by Wearable Mobile Devices. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 223-246	0.7	2
45	Community Detection in Weighted Directed Networks Using Nature-Inspired Heuristics. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 325-335	0.9	2
44	Solving the Open-Path Asymmetric Green Traveling Salesman Problem in a Realistic Urban Environment. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 181-191	0.8	2
43	Dynamic Partitioning of Evolving Graph Streams Using Nature-Inspired Heuristics. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 367-380	0.9	1
42	Population Size Reduction in Particle Swarm Optimization Using Product Graphs. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 77-87	0.4	1
41	A Comparison of Evolutionary and Tree-Based Approaches for Game Feature Validation in Real-Time Strategy Games with a Novel Metric. <i>Mathematics</i> , <b>2020</b> , 8, 688	2.3	1
40	Adaptation of Sport Training Plans by Swarm Intelligence. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 56-67	0.4	1
39	Population-Based Metaheuristics for Planning Interval Training Sessions in Mountain Biking. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 70-79	0.9	1
38	Population-based metaheuristics for Association Rule Text Mining <b>2020</b> ,		1

37	Interplay of Two Bat Algorithm Robotic Swarms in Non-cooperative Target Point Search. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 543-550	0.3	1
36	On the Potential of the Nature-Inspired Algorithms for Pure Binary Classification. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 18-28	0.9	1
35	Hybrid Multi-objective PSO for Filter-Based Feature Selection. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 113-123	0.4	1
34	Impact of Solution Representation in Nature-Inspired Algorithms for Feature Selection. <i>IEEE Access</i> , <b>2020</b> , 8, 134728-134742	3.5	1
33	Towards the universal framework of stochastic nature-inspired population-based algorithms <b>2016</b> ,		1
32	Principles of Human Movement. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 83-100	0.7	1
31	Development of a framework for modeling preference times in triathlon. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 10833-10846	4.8	1
30	A Comprehensive Comparison of Hybrid Mobile Application Development Frameworks. <i>International Journal of Security and Privacy in Pervasive Computing</i> , <b>2021</b> , 13, 78-90	0.5	1
29	Improved Nature-Inspired Algorithms for Numeric Association Rule Mining. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 187-195	0.4	1
28	Model-Based Inversion of Rayleigh Wave Dispersion Curves Via Linear and Nonlinear Methods. <i>Pure and Applied Geophysics</i> , <b>2021</b> , 178, 341-358	2.2	1
27	NURBS functional network approach for automatic image segmentation of macroscopic medical images in melanoma detection. <i>Journal of Computational Science</i> , <b>2021</b> , 56, 101481	3.4	0
26	Pervasive Computing in Sport. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 53-79	0.7	0
25	NiaAML: AutoML framework based on stochastic population-based nature-inspired algorithms. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 2949	5.2	0
24	Sports Nutrition. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 247-277	0.7	0
23	Topology-based generation of sport training sessions. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2021</b> , 12, 667-678	3.7	0
22	Using Adaptive Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 267-275	0.3	
21	Discussion of Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm by Shahaboddin Shamshirband, Mohsen Amirmojahedi, Milan Goci, Shatirah Akib, Dalibor Petkovi, Jamshid Piri, and Slavisa Trajkovic. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2018</b> , 144, 07017023	1.1	
20	Memetic Modified Cuckoo Search Algorithm with ASSRS for the SSCF Problem in Self-Similar Fractal Image Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 658-670	0.9	



19	The Potential of Plants and Seeds in DNA-Based Information Storage. <i>Advanced Information and Knowledge Processing</i> , <b>2017</b> , 69-81	0.3
18	Synthetic Data Augmentation of Cycling Sport Training Datasets. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 65-74	0.5
17	Wrapper-Based Feature Selection Using Self-adaptive Differential Evolution. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 135-154	0.3
16	Nature-Inspired Cryptanalysis Methods for Breaking Vigenère Cipher. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 446-453	0.5
15	Mining Sport Activities <b>2018</b> , 7348-7357	
14	Design and Implementation of an Artificial Sports Trainer. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 121-135	0.7
13	Functional Networks for Image Segmentation of Cutaneous Lesions with Rational Curves. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 780-789	0.4
12	Parallel Differential Evolution with Variable Population Size for Global Optimization. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 89-99	0.4
11	Tracking the Exploration and Exploitation in Stochastic Population-Based Nature-Inspired Algorithms Using Recurrence Plots. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 166-176 <sup>0.3</sup>	0.3
10	Adaptation of Training Plans. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 181-200	0.7
9	Knowledge Discovery in Sport. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 27-51	0.7
8	Theory of Sports Training. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 103-119	0.7
7	The Relevance of Nature-Inspired Metaheuristic Algorithms in Smart Sport Training. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 1-8	0.5
6	Procedural Content Generation of Custom Tower Defense Game Using Genetic Algorithms. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 493-503	0.5
5	Discovering the Influence of Interruptions in Cycling Training: A Data Science Study. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 420-432	0.9
4	Deep Analytics in Sport Community Forums. <i>International Journal of Advanced Pervasive and Ubiquitous Computing</i> , <b>2018</b> , 10, 18-37	0.3
3	Deep Analytics in Sport Community Forums <b>2021</b> , 352-372	
2	IFS-Based Image Reconstruction of Binary Images with Functional Networks. <i>Mathematics</i> , <b>2022</b> , 10, 1107	2.3

- 1 New Perspectives in the Development of the Artificial Sport Trainer. *Applied Sciences (Switzerland)*, **2021**, 11, 11452 2.6