

Iztok Fister Jr

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthetic Data Augmentation of Cycling Sport Training Datasets. <i>Lecture Notes in Networks and Systems</i> , 2022 , 65-74	0.5	
143	A Novel Framework for Unification of Association Rule Mining, Online Analytical Processing and Statistical Reasoning. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
142	IFS-Based Image Reconstruction of Binary Images with Functional Networks. <i>Mathematics</i> , 2022 , 10, 1107	2.3	
141	NURBS functional network approach for automatic image segmentation of macroscopic medical images in melanoma detection. <i>Journal of Computational Science</i> , 2021 , 56, 101481	3.4	0
140	Functional Networks for Image Segmentation of Cutaneous Lesions with Rational Curves. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 780-789	0.4	
139	Parallel Differential Evolution with Variable Population Size for Global Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 89-99	0.4	
138	NiaAML: AutoML framework based on stochastic population-based nature-inspired algorithms. <i>Journal of Open Source Software</i> , 2021 , 6, 2949	5.2	0
137	Topology-based generation of sport training sessions. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 667-678	3.7	0
136	Modified OFS-RDS bat algorithm for IFS encoding of bitmap fractal binary images. <i>Advanced Engineering Informatics</i> , 2021 , 47, 101222	7.4	3
135	The Relevance of Nature-Inspired Metaheuristic Algorithms in Smart Sport Training. <i>Lecture Notes in Networks and Systems</i> , 2021 , 1-8	0.5	
134	A Comprehensive Comparison of Hybrid Mobile Application Development Frameworks. <i>International Journal of Security and Privacy in Pervasive Computing</i> , 2021 , 13, 78-90	0.5	1
133	Improved Nature-Inspired Algorithms for Numeric Association Rule Mining. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 187-195	0.4	1
132	Procedural Content Generation of Custom Tower Defense Game Using Genetic Algorithms. <i>Lecture Notes in Networks and Systems</i> , 2021 , 493-503	0.5	
131	Information Cartography in Association Rule Mining. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 1-17	4.1	5
130	Discovering the Influence of Interruptions in Cycling Training: A Data Science Study. <i>Lecture Notes in Computer Science</i> , 2021 , 420-432	0.9	
129	Model-Based Inversion of Rayleigh Wave Dispersion Curves Via Linear and Nonlinear Methods. <i>Pure and Applied Geophysics</i> , 2021 , 178, 341-358	2.2	1
128	Synergy of Blockchain Technology and Data Mining Techniques for Anomaly Detection. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7987	2.6	4

127	On Selection of a Benchmark by Determining the Algorithms Qualities. <i>IEEE Access</i> , 2021 , 9, 51166-51178	3.5	6
126	Deep Analytics in Sport Community Forums 2021 , 352-372		
125	A Brief Overview of Swarm Intelligence-Based Algorithms for Numerical Association Rule Mining. <i>Springer Tracts in Nature-inspired Computing</i> , 2021 , 47-59	1.8	3
124	New Perspectives in the Development of the Artificial Sport Trainer. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11452	2.6	
123	A Systematic Literature Review of Intelligent Data Analysis Methods for Smart Sport Training. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3013	2.6	27
122	A Comparison of Evolutionary and Tree-Based Approaches for Game Feature Validation in Real-Time Strategy Games with a Novel Metric. <i>Mathematics</i> , 2020 , 8, 688	2.3	1
121	A comprehensive database of Nature-Inspired Algorithms. <i>Data in Brief</i> , 2020 , 31, 105792	1.2	13
120	Continuous Optimizers for Automatic Design and Evaluation of Classification Pipelines. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 281-301	1.8	2
119	Population-based metaheuristics for Association Rule Text Mining 2020 ,		1
118	Wrapper-Based Feature Selection Using Self-adaptive Differential Evolution. <i>Communications in Computer and Information Science</i> , 2020 , 135-154	0.3	
117	Nature-Inspired Cryptanalysis Methods for Breaking Vigenère Cipher. <i>Lecture Notes in Networks and Systems</i> , 2020 , 446-453	0.5	
116	Tracking the Exploration and Exploitation in Stochastic Population-Based Nature-Inspired Algorithms Using Recurrence Plots. <i>Communications in Computer and Information Science</i> , 2020 , 166-176	0.3	
115	On the Potential of the Nature-Inspired Algorithms for Pure Binary Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 18-28	0.9	1
114	Use of stochastic nature-inspired population-based algorithms within an online adaptive controller for mechatronic devices. <i>Applied Soft Computing Journal</i> , 2020 , 95, 106559	7.5	2
113	Impact of Solution Representation in Nature-Inspired Algorithms for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 134728-134742	3.5	1
112	Datasets for phishing websites detection. <i>Data in Brief</i> , 2020 , 33, 106438	1.2	8
111	Post hoc analysis of sport performance with differential evolution. <i>Neural Computing and Applications</i> , 2020 , 32, 10799-10808	4.8	13
110	Solving Agile Software Development Problems with Swarm Intelligence Algorithms. <i>Lecture Notes in Networks and Systems</i> , 2020 , 298-309	0.5	4

109	Bioinspired Computational Intelligence and Transportation Systems: A Long Road Ahead. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 466-495	6.1	25
108	Development of a framework for modeling preference times in triathlon. <i>Neural Computing and Applications</i> , 2020 , 32, 10833-10846	4.8	1
107	Hybrid Modified Firefly Algorithm for Border Detection of Skin Lesions in Medical Imaging 2019 ,		8
106	Using Adaptive Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , 2019 , 267-275	0.3	
105	Dynamic Partitioning of Evolving Graph Streams Using Nature-Inspired Heuristics. <i>Lecture Notes in Computer Science</i> , 2019 , 367-380	0.9	1
104	Adaptation of Sport Training Plans by Swarm Intelligence. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 56-67	0.4	1
103	Cuckoo Search Algorithm for Border Reconstruction of Medical Images with Rational Curves. <i>Lecture Notes in Computer Science</i> , 2019 , 320-330	0.9	3
102	Population-Based Metaheuristics for Planning Interval Training Sessions in Mountain Biking. <i>Lecture Notes in Computer Science</i> , 2019 , 70-79	0.9	1
101	Discovering dependencies among mined association rules with population-based metaheuristics 2019 ,		4
100	Computing rational border curves of melanoma and other skin lesions from medical images with bat algorithm 2019 ,		2
99	Hybridizing differential evolution and novelty search for multimodal optimization problems 2019 ,		2
98	Automatic Detection of Heartbeats in Heart Sound Signals Using Deep Convolutional Neural Networks. <i>Elektronika Ir Elektrotehnika</i> , 2019 , 25, 71-76	1.7	7
97	Design and Implementation of an Artificial Sports Trainer. <i>Adaptation, Learning, and Optimization</i> , 2019 , 121-135	0.7	
96	Pervasive Computing in Sport. <i>Adaptation, Learning, and Optimization</i> , 2019 , 53-79	0.7	0
95	Applying Differential Evolution with Threshold Mechanism for Feature Selection on a Phishing Websites Classification. <i>Communications in Computer and Information Science</i> , 2019 , 11-18	0.3	2
94	Hybrid Multi-objective PSO for Filter-Based Feature Selection. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 113-123	0.4	1
93	Deep Analytics Based on Triathlon Athletes Blogs and News. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 279-289	0.4	2
92	Parameter Setting for Deep Neural Networks Using Swarm Intelligence on Phishing Websites Classification. <i>International Journal on Artificial Intelligence Tools</i> , 2019 , 28, 1960008	0.9	9

91	Sports Nutrition. <i>Adaptation, Learning, and Optimization, 2019, 247-277</i>	0.7	0
90	Principles of Human Movement. <i>Adaptation, Learning, and Optimization, 2019, 83-100</i>	0.7	1
89	Generating Training Plans Based on Existing Sports Activities. <i>Adaptation, Learning, and Optimization, 2019, 139-180</i>	0.7	2
88	Adaptation of Training Plans. <i>Adaptation, Learning, and Optimization, 2019, 181-200</i>	0.7	
87	BatMiner for Identifying the Characteristics of Athletes in Training. <i>Adaptation, Learning, and Optimization, 2019, 201-221</i>	0.7	4
86	Visualization of Sports Activities Created by Wearable Mobile Devices. <i>Adaptation, Learning, and Optimization, 2019, 223-246</i>	0.7	2
85	Knowledge Discovery in Sport. <i>Adaptation, Learning, and Optimization, 2019, 27-51</i>	0.7	
84	Theory of Sports Training. <i>Adaptation, Learning, and Optimization, 2019, 103-119</i>	0.7	
83	Computational Intelligence in Sports. <i>Adaptation, Learning, and Optimization, 2019,</i>	0.7	12
82	Novelty search for global optimization. <i>Applied Mathematics and Computation, 2019, 347, 865-881</i>	2.7	22
81	A Discrete and Improved Bat Algorithm for solving a medical goods distribution problem with pharmacological waste collection. <i>Swarm and Evolutionary Computation, 2019, 44, 273-286</i>	9.8	80
80	Discussion of Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm by Shahaboddin Shamsirband, Mohsen Amirmojahedi, Milan Goci, Shatirah Akib, Dalibor Petković, Jamshid Piri, and Slavisa Trajkovic. <i>Journal of Irrigation and Drainage Engineering, 2019, 144, 07017000</i>	1.1	
79	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. <i>Studies in Computational Intelligence, 2018, 69-89</i>	0.8	9
78	Framework for planning the training sessions in triathlon 2018,		3
77	Swarm Intelligence Approaches for Parameter Setting of Deep Learning Neural Network 2018,		18
76	Sensors and Functionalities of Non-Invasive Wrist-Wearable Devices: A Review. <i>Sensors, 2018, 18,</i>	3.8	117
75	Scrum Task Allocation Based on Particle Swarm Optimization. <i>Lecture Notes in Computer Science, 2018, 38-49</i>	0.9	2
74	Memetic Modified Cuckoo Search Algorithm with ASSRS for the SSCF Problem in Self-Similar Fractal Image Reconstruction. <i>Lecture Notes in Computer Science, 2018, 658-670</i>	0.9	

73	Using Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , 2018 , 534-542	0.3	3
72	NiaPy: Python microframework for building nature-inspired algorithms. <i>Journal of Open Source Software</i> , 2018 , 3, 613	5.2	21
71	Mining Sport Activities 2018 , 7348-7357		
70	Interplay of Two Bat Algorithm Robotic Swarms in Non-cooperative Target Point Search. <i>Communications in Computer and Information Science</i> , 2018 , 543-550	0.3	1
69	A novel self-adaptive differential evolution for feature selection using threshold mechanism 2018 ,		4
68	Deep Analytics in Sport Community Forums. <i>International Journal of Advanced Pervasive and Ubiquitous Computing</i> , 2018 , 10, 18-37	0.3	
67	Differential Evolution for Association Rule Mining Using Categorical and Numerical Attributes. <i>Lecture Notes in Computer Science</i> , 2018 , 79-88	0.9	8
66	Bat Algorithm Swarm Robotics Approach for Dual Non-cooperative Search with Self-centered Mode. <i>Lecture Notes in Computer Science</i> , 2018 , 201-209	0.9	4
65	Community Detection in Weighted Directed Networks Using Nature-Inspired Heuristics. <i>Lecture Notes in Computer Science</i> , 2018 , 325-335	0.9	2
64	Online Adaptive Controller Based on Dynamic Evolution Strategies. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2076	2.6	30
63	Swarm Intelligence Algorithms for Feature Selection: A Review. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1521	2.6	128
62	Solving the Open-Path Asymmetric Green Traveling Salesman Problem in a Realistic Urban Environment. <i>Studies in Computational Intelligence</i> , 2018 , 181-191	0.8	2
61	Automatic Fitting of Feature Points for Border Detection of Skin Lesions in Medical Images with Bat Algorithm. <i>Studies in Computational Intelligence</i> , 2018 , 357-368	0.8	5
60	Generating the Training Plans Based on Existing Sports Activities Using Swarm Intelligence. <i>Modeling and Optimization in Science and Technologies</i> , 2017 , 79-94	0.6	5
59	Modified binary cuckoo search for association rule mining. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 4319-4330	1.6	27
58	Making up for the deficit in a marathon run 2017 ,		3
57	Multi-Objective Differential Evolution for feature selection in Facial Expression Recognition systems. <i>Expert Systems With Applications</i> , 2017 , 89, 129-137	7.8	71
56	The Potential of Plants and Seeds in DNA-Based Information Storage. <i>Advanced Information and Knowledge Processing</i> , 2017 , 69-81	0.3	

55	Bio-inspired computation: Recent development on the modifications of the cuckoo search algorithm. <i>Applied Soft Computing Journal</i> , 2017 , 61, 149-173	7.5	44
54	DNA labelling of varieties covered by patent protection: a new solution for managing intellectual property rights in the seed industry. <i>Transgenic Research</i> , 2017 , 26, 87-95	3.3	5
53	Modeling preference time in middle distance triathlons 2017 ,		2
52	Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016 , 142, 04015044	1.1	36
51	Epistatic arithmetic crossover based on Cartesian graph product in ensemble differential evolution. <i>Applied Mathematics and Computation</i> , 2016 , 283, 181-194	2.7	4
50	Parameterless Bat Algorithm and Its Performance Study. <i>Studies in Computational Intelligence</i> , 2016 , 267-276	0.8	10
49	Toward the Discovery of Citation Cartels in Citation Networks. <i>Frontiers in Physics</i> , 2016 , 4,	3.9	35
48	Towards the universal framework of stochastic nature-inspired population-based algorithms 2016 ,		1
47	Generating eating plans for athletes using the particle swarm optimization 2016 ,		11
46	A study of chaotic maps in differential evolution applied to gray-level image thresholding 2016 ,		4
45	Artificial neural network regression as a local search heuristic for ensemble strategies in differential evolution. <i>Nonlinear Dynamics</i> , 2016 , 84, 895-914	5	44
44	Hybrid self-adaptive cuckoo search for global optimization. <i>Swarm and Evolutionary Computation</i> , 2016 , 29, 47-72	9.8	76
43	Parameter tuning of PID controller with reactive nature-inspired algorithms. <i>Robotics and Autonomous Systems</i> , 2016 , 84, 64-75	3.5	57
42	Population Size Reduction in Particle Swarm Optimization Using Product Graphs. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 77-87	0.4	1
41	Hybrid evolutionary algorithm for the b-chromatic number. <i>Journal of Heuristics</i> , 2015 , 21, 501-521	1.9	5
40	Modified bat algorithm with quaternion representation 2015 ,		11
39	Planning the sports training sessions with the bat algorithm. <i>Neurocomputing</i> , 2015 , 149, 993-1002	5.4	86
38	Analysis of randomisation methods in swarm intelligence. <i>International Journal of Bio-Inspired Computation</i> , 2015 , 7, 36	2.9	21

37	Interestingness measure for mining sequential patterns in sports. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 1981-1994	1.6	7
36	Gesture Recognition from Data Streams of Human Motion Sensor Using Accelerated PSO Swarm Search Feature Selection Algorithm. <i>Journal of Sensors</i> , 2015 , 2015, 1-16	2	11
35	How to Deal with Sports Activity Datasets for Data Mining and Analysis. <i>International Journal of Advanced Pervasive and Ubiquitous Computing</i> , 2015 , 7, 27-37	0.3	6
34	Computational intelligence in sports: Challenges and opportunities within a new research domain. <i>Applied Mathematics and Computation</i> , 2015 , 262, 178-186	2.7	59
33	Adaptation and Hybridization in Nature-Inspired Algorithms. <i>Adaptation, Learning, and Optimization</i> , 2015 , 3-50	0.7	24
32	On the Mutation Operators in Evolution Strategies. <i>Adaptation, Learning, and Optimization</i> , 2015 , 69-89	0.7	3
31	A short discussion about Economic optimization design of shell-and-tube heat exchangers by a cuckoo-search-algorithm. <i>Applied Thermal Engineering</i> , 2015 , 76, 535-537	5.8	8
30	A review of chaos-based firefly algorithms: Perspectives and research challenges. <i>Applied Mathematics and Computation</i> , 2015 , 252, 155-165	2.7	147
29	Particle swarm optimization for automatic creation of complex graphic characters. <i>Chaos, Solitons and Fractals</i> , 2015 , 73, 29-35	9.3	22
28	Adaptation and Hybridization in Computational Intelligence. <i>Adaptation, Learning, and Optimization</i> , 2015 ,	0.7	4
27	Firefly Algorithm: A Brief Review of the Expanding Literature. <i>Studies in Computational Intelligence</i> , 2014 , 347-360	0.8	24
26	Towards the novel reasoning among particles in PSO by the use of RDF and SPARQL. <i>Scientific World Journal, The</i> , 2014 , 2014, 121782	2.2	15
25	A novel hybrid self-adaptive bat algorithm. <i>Scientific World Journal, The</i> , 2014 , 2014, 709738	2.2	64
24	Congenital Central Hypoventilation Syndrome: A Comprehensive Review and Future Challenges. <i>Journal of Respiratory Medicine</i> , 2014 , 2014, 1-8		2
23	Bat algorithm: Recent advances 2014 ,		23
22	Towards Automatic Food Prediction During Endurance Sport Competitions 2014 ,		4
21	Cuckoo Search: A Brief Literature Review. <i>Studies in Computational Intelligence</i> , 2014 , 49-62	0.8	60
20	On the Randomized Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 27-48	0.8	17

19	Graph 3-coloring with a hybrid self-adaptive evolutionary algorithm. <i>Computational Optimization and Applications</i> , 2013 , 54, 741-770	1.4	16
18	Real Parameter Single Objective Optimization using self-adaptive differential evolution algorithm with more strategies 2013 ,		19
17	Modified firefly algorithm using quaternion representation. <i>Expert Systems With Applications</i> , 2013 , 40, 7220-7230	7.8	110
16	Data Mining in Sporting Activities Created by Sports Trackers 2013 ,		14
15	Memetic Self-Adaptive Firefly Algorithm 2013 , 73-102		21
14	A comprehensive review of firefly algorithms. <i>Swarm and Evolutionary Computation</i> , 2013 , 13, 34-46	9.8	764
13	A comprehensive review of cuckoo search: variants and hybrids. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2013 , 4, 387	0.3	49
12	Differential evolution strategies with random forest regression in the bat algorithm 2013 ,		8
11	A biometric authentication model using hand gesture images. <i>BioMedical Engineering OnLine</i> , 2013 , 12, 111	4.1	24
10	Widespread Mobile Devices in Applications for Real-time Drafting Detection in Triathlons. <i>Journal of Emerging Technologies in Web Intelligence</i> , 2013 , 5,		5
9	Easytime++: A Case Study Of Incremental Domain-Specific Language Development. <i>Information Technology and Control</i> , 2013 , 42,	1.3	3
8	Memetic artificial bee colony algorithm for large-scale global optimization 2012 ,		45
7	Self-adaptive differential evolution algorithm with a small and varying population size 2012 ,		25
6	Implementation of EasyTime formal semantics using a LISA compiler generator. <i>Computer Science and Information Systems</i> , 2012 , 9, 1019-1044	0.8	3
5	A Hybrid Artificial Bee Colony Algorithm for Graph 3-Coloring. <i>Lecture Notes in Computer Science</i> , 2012 , 66-74	0.9	7
4	Using differential evolution for the graph coloring 2011 ,		3
3	Design and implementation of domain-specific language easytime. <i>Computer Languages, Systems and Structures</i> , 2011 , 37, 151-167		15
2	A hybrid self-adaptive evolutionary algorithm for marker optimization in the clothing industry. <i>Applied Soft Computing Journal</i> , 2010 , 10, 409-422	7.5	19

1 Parameterless Harmony Search for Image Multi-thresholding

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