

# Yu-Jun Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

2,731  
citations

236612

25  
h-index

197535

49  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water wave optimization: A new nature-inspired metaheuristic. <i>Computers and Operations Research</i> , 2015, 55, 1-11.	2.4	446
2	Evolutionary optimization for disaster relief operations: A survey. <i>Applied Soft Computing Journal</i> , 2015, 27, 553-566.	4.1	128
3	A hybrid fireworks optimization method with differential evolution operators. <i>Neurocomputing</i> , 2015, 148, 75-82.	3.5	123
4	Population Classification in Fire Evacuation: A Multiobjective Particle Swarm Optimization Approach. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 70-81.	7.5	111
5	Artificial Intelligence in Civil Engineering. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-22.	0.6	106
6	Multiobjective fireworks optimization for variable-rate fertilization in oil crop production. <i>Applied Soft Computing Journal</i> , 2013, 13, 4253-4263.	4.1	106
7	Emergency transportation planning in disaster relief supply chain management: a cooperative fuzzy optimization approach. <i>Soft Computing</i> , 2013, 17, 1301-1314.	2.1	106
8	Ecogeography-based optimization: Enhancing biogeography-based optimization with ecogeographic barriers and differentiations. <i>Computers and Operations Research</i> , 2014, 50, 115-127.	2.4	94
9	Airline Passenger Profiling Based on Fuzzy Deep Machine Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 2911-2923.	7.2	79
10	Generative adversarial network based telecom fraud detection at the receiving bank. <i>Neural Networks</i> , 2018, 102, 78-86.	3.3	74
11	A Hybrid Neuro-Fuzzy Network Based on Differential Biogeography-Based Optimization for Online Population Classification in Earthquakes. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 1070-1083.	6.5	65
12	An evolutionary deep neural network for predicting morbidity of gastrointestinal infections by food contamination. <i>Neurocomputing</i> , 2017, 226, 16-22.	3.5	65
13	Emergency railway wagon scheduling by hybrid biogeography-based optimization. <i>Computers and Operations Research</i> , 2014, 43, 1-8.	2.4	63
14	A Pythagorean-Type Fuzzy Deep Denoising Autoencoder for Industrial Accident Early Warning. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 1561-1575.	6.5	63
15	Cooperative particle swarm optimization for multiobjective transportation planning. <i>Applied Intelligence</i> , 2013, 39, 202-216.	3.3	55
16	Localized biogeography-based optimization. <i>Soft Computing</i> , 2014, 18, 2323-2334.	2.1	48
17	Evolutionary Collaborative Human-UAV Search for Escaped Criminals. <i>IEEE Transactions on Evolutionary Computation</i> , 2020, 24, 217-231.	7.5	48
18	The impact of a public bicycle-sharing system on urban public transport networks. <i>Transportation Research, Part A: Policy and Practice</i> , 2018, 107, 246-256.	2.0	46

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19	Fireworks Algorithm with Enhanced Fireworks Interaction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 42-55.	1.9	45
20	Water wave optimization for combinatorial optimization: Design strategies and applications. Applied Soft Computing Journal, 2019, 83, 105611.	4.1	38
21	Modeling of Biological Intelligence for SCM System Optimization. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-10.	0.7	37
22	A hybrid biogeography-based optimization and fireworks algorithm. , 2014, , .		37
23	Evolutionary Planning of Multi-UAV Search for Missing Tourists. IEEE Access, 2019, 7, 73480-73492.	2.6	36
24	Bio-Inspired Optimization of Sustainable Energy Systems: A Review. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	34
25	A simplified water wave optimization algorithm. , 2015, , .		29
26	Shallow and deep neural network training by water wave optimization. Swarm and Evolutionary Computation, 2019, 50, 100561.	4.5	29
27	A new particle swarm optimization algorithm for fuzzy optimization of armored vehicle scheme design. Applied Intelligence, 2012, 37, 520-526.	3.3	28
28	Real-time neural network scheduling of emergency medical mask production during COVID-19. Applied Soft Computing Journal, 2020, 97, 106790.	4.1	28
29	Emergency Railway Transportation Planning Using a Hyper-Heuristic Approach. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 321-329.	4.7	27
30	Integrated civilianâ€œmilitary pre-positioning of emergency supplies: A multiobjective optimization approach. Applied Soft Computing Journal, 2017, 58, 732-741.	4.1	24
31	Improving Enhanced Fireworks Algorithm with New Gaussian Explosion and Population Selection Strategies. Lecture Notes in Computer Science, 2014, , 53-63.	1.0	22
32	Emergency scheduling of engineering rescue tasks in disaster relief operations and its application in China. International Transactions in Operational Research, 2015, 22, 503-518.	1.8	20
33	Quarantine Vehicle Scheduling for Transferring High-Risk Individuals in Epidemic Areas. International Journal of Environmental Research and Public Health, 2020, 17, 2275.	1.2	19
34	Evolutionary Human-UAV Cooperation for Transmission Network Restoration. IEEE Transactions on Industrial Informatics, 2021, 17, 1648-1657.	7.2	19
35	Bio-Inspired Meta-Heuristics for Emergency Transportation Problems. Algorithms, 2014, 7, 15-31.	1.2	18
36	Biogeographic harmony search for emergency air transportation. Soft Computing, 2016, 20, 967-977.	2.1	18

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37	Predicting gastrointestinal infection morbidity based on environmental pollutants: Deep learning versus traditional models. <i>Ecological Indicators</i> , 2017, 82, 76-81.	2.6	18
38	Efficient multi-objective tabu search for emergency equipment maintenance scheduling in disaster rescue. <i>Optimization Letters</i> , 2013, 7, 89-100.	0.9	17
39	Collaborative Human-UAV Search and Rescue for Missing Tourists in Nature Reserves. <i>Interfaces</i> , 2019, 49, 371-383.	1.6	17
40	Disaster Rescue Task Scheduling: An Evolutionary Multiobjective Optimization Approach. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2018, 6, 288-300.	3.2	16
41	A problem reduction based approach to discrete optimization algorithm design. <i>Computing (Vienna/New York)</i> , 2010, 88, 31-54.	3.2	15
42	Tridirectional Transfer Learning for Predicting Gastric Cancer Morbidity. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 561-574.	7.2	15
43	PAR: A Practicable Formal Method and Its Supporting Platform. <i>Lecture Notes in Computer Science</i> , 2018, , 70-86.	1.0	15
44	Adaptive Parameters for a Modified Comprehensive Learning Particle Swarm Optimizer. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-11.	0.6	14
45	Rescue Wings: Mobile Computing and Active Services Support for Disaster Rescue. <i>IEEE Transactions on Services Computing</i> , 2016, 9, 594-607.	3.2	14
46	Effects of Food Contamination on Gastrointestinal Morbidity: Comparison of Different Machine-Learning Methods. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 838.	1.2	14
47	Emergency Drug Procurement Planning Based on Big-Data Driven Morbidity Prediction. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 6379-6388.	7.2	14
48	A Hyper-Heuristic Method for UAV Search Planning. <i>Lecture Notes in Computer Science</i> , 2017, , 454-464.	1.0	14
49	UAV search-and-rescue planning using an adaptive memetic algorithm. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2021, 22, 1477-1491.	1.5	14
50	Intelligent Optimization of Diversified Community Prevention of COVID-19 Using Traditional Chinese Medicine. <i>IEEE Computational Intelligence Magazine</i> , 2020, 15, 62-73.	3.4	13
51	A simple greedy algorithm for a class of shuttle transportation problems. <i>Optimization Letters</i> , 2009, 3, 491-497.	0.9	12
52	A Water Wave Optimization Algorithm with Variable Population Size and Comprehensive Learning. <i>Lecture Notes in Computer Science</i> , 2015, , 124-136.	1.0	11
53	Distributed agent based cooperative differential evolution: A master-slave model. , 2012, , .		10
54	Adaptive Multi-Subpopulation Competition and Multi-Niche Crowding based Memetic Algorithm for Automatic Data Clustering. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, , 1-1.	7.5	10

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55	A robust multi-objective model for healthcare resource management and location planning during pandemics. <i>Annals of Operations Research</i> , 0, , .	2.6	10
56	A Differential Evolution Algorithm With Adaptive Niching and $k$ -Means Operation for Data Clustering. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 6181-6195.	6.2	9
57	Object-Oriented Specification Composition and Refinement Via Category Theoretic Computations. <i>Lecture Notes in Computer Science</i> , 2006, , 601-610.	1.0	9
58	Co-Evolutionary Fuzzy Deep Transfer Learning for Disaster Relief Demand Forecasting. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2022, 10, 1361-1373.	3.2	8
59	Emergency Train Scheduling on Chinese High-Speed Railways. <i>Transportation Science</i> , 2018, 52, 1077-1091.	2.6	7
60	Multi-Objective Optimization of Integrated Civilian-Military Scheduling of Medical Supplies for Epidemic Prevention and Control. <i>Healthcare (Switzerland)</i> , 2021, 9, 126.	1.0	7
61	Hybrid evolutionary optimization for takeaway order selection and delivery path planning utilizing habit data. <i>Complex &amp; Intelligent Systems</i> , 0, , 1.	4.0	7
62	An A-Team Based Architecture for Constraint Programming. <i>Lecture Notes in Computer Science</i> , 2006, , 552-557.	1.0	7
63	A-TEAM BASED SUPPLY CHAIN MANAGEMENT AGENT ARCHITECTURE. <i>International Journal on Artificial Intelligence Tools</i> , 2009, 18, 801-823.	0.7	6
64	Tuning maturity model of ecogeography-based optimization on CEC 2015 single-objective optimization test problems. , 2015, , .		6
65	Evaluating a Hybrid DE and BBO with Self Adaptation on ICSI 2014 Benchmark Problems. <i>Lecture Notes in Computer Science</i> , 2014, , 422-433.	1.0	5
66	Toward an Automatic Approach to Greedy Algorithms. <i>Lecture Notes in Computer Science</i> , 2009, , 302-313.	1.0	5
67	A Simplified Biogeography-Based Optimization Using a Ring Topology. <i>Lecture Notes in Computer Science</i> , 2013, , 330-337.	1.0	5
68	Predicting Demands of COVID-19 Prevention and Control Materials via Co-Evolutionary Transfer Learning. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 3859-3872.	6.2	5
69	A Water Wave Optimization Algorithm for Order Selection and Delivery Path Optimization for Takeaway Deliverymen. , 2021, , .		4
70	Biogeography-Based Optimization in Machine Learning. , 2019, , 199-217.		4
71	Biogeography-Based Optimization. , 2019, , 27-49.		4
72	Optimization of False Target Jamming against UAV Detection. <i>Drones</i> , 2022, 6, 114.	2.7	4

#	ARTICLE	IF	CITATIONS
73	A category theoretic approach to search algorithms: Towards a unified implementation for branch-and-bound and backtracking. , 2009, , .		3
74	DISPDESK: A Logistic Constraint Programming System for Construction Machinery. , 2006, , .		2
75	Distributed Cooperative Planning and Scheduling for Disaster Management. , 2007, , .		2
76	An algebraic approach to mechanical tabu search algorithm generation. , 2010, , .		2
77	Evolutionary Optimization of Airport Security Inspection Allocation. Lecture Notes in Computer Science, 2017, , 716-726.	1.0	2
78	Enhanced Biogeography-Based Optimization for Flow-Shop Scheduling. Communications in Computer and Information Science, 2018, , 295-306.	0.4	2
79	An Intelligent Algorithm for AGV Scheduling in Intelligent Warehouses. Lecture Notes in Computer Science, 2021, , 163-173.	1.0	2
80	Formal Programming for the Shortest Path and Its Critical Edge Problems. , 2007, , .		1
81	Hyper-heuristics with penalty parameter adaptation for constrained optimization. , 2014, , .		1
82	A Biogeography-Based Memetic Algorithm for Job-Shop Scheduling. Communications in Computer and Information Science, 2018, , 273-284.	0.4	1
83	A Hybrid Evolutionary Algorithm for Combined Road-Rail Emergency Transportation Planning. Lecture Notes in Computer Science, 2018, , 465-476.	1.0	1
84	Adapted water wave optimization for integrated bank customer service representative scheduling. International Journal of Production Research, 0, , 1-16.	4.9	1
85	Agent Based Framework for Emergency Rescue and Assistance Planning. , 2007, , 70-81.		1
86	Multi-Agent Based Distributed Computing Framework for Master-Slave Particle Swarms. Ruan Jian Xue Bao/Journal of Software, 2014, 23, 3000-3008.	0.3	1
87	From Mathematics to Software Engineering: Introducing Category Theory into the Computer Science Curriculum. Lecture Notes in Computer Science, 2007, , 469-476.	1.0	1
88	Ecogeography-Based Optimization: Enhanced by Ecogeographic Barriers and Differentiations. , 2019, , 69-87.		1
89	Application of Biogeography-Based Optimization in Image Processing. , 2019, , 177-198.		1
90	Water Wave Optimization with Self-adaptive Directed Propagation. Communications in Computer and Information Science, 2020, , 493-505.	0.4	1

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91	Design and Implementation of DSL via Category Theoretic Computations. , 2009, , .		0
92	Problem Reduction Graph Model for Discrete Optimization Problems. , 2010, , .		0
93	An Algebraic Approach to Population-Based Evolutionary Algorithm Generation. Electronic Notes in Theoretical Computer Science, 2014, 309, 95-107.	0.9	0
94	A Knowledge-Driven Approach to Web-Based Learning for Formal Algorithm Development. Lecture Notes in Computer Science, 2011, , 237-245.	1.0	0
95	Application of Biogeography-Based Optimization in Job Scheduling. , 2019, , 143-175.		0
96	Application of Biogeography-Based Optimization in Transportation. , 2019, , 117-142.		0
97	Localized Biogeography-Based Optimization: Enhanced By Local Topologies. , 2019, , 51-67.		0
98	Water Wave Optimization with Distributed-Learning Refraction. Communications in Computer and Information Science, 2022, , 187-200.	0.4	0