

Xingyi Zhang

List of Publications by Citations

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111
papers

4,641
citations

34
h-index

67
g-index

121
ext. papers

6,342
ext. citations

6.2
avg, IF

6.5
L-index

#	Paper	IF	Citations
111	PlatEMO: A MATLAB Platform for Evolutionary Multi-Objective Optimization [Educational Forum]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 73-87	5.6	645
110	A Knee Point-Driven Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 761-776	15.6	449
109	An Efficient Approach to Nondominated Sorting for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 201-213	15.6	296
108	An Indicator-Based Multiobjective Evolutionary Algorithm With Reference Point Adaptation for Better Versatility. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 609-622	15.6	251
107	A Decision Variable Clustering-Based Evolutionary Algorithm for Large-Scale Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 97-112	15.6	203
106	A benchmark test suite for evolutionary many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 67-81	7.1	187
105	A competitive mechanism based multi-objective particle swarm optimizer with fast convergence. <i>Information Sciences</i> , 2018 , 427, 63-76	7.7	138
104	A Classification-Based Surrogate-Assisted Evolutionary Algorithm for Expensive Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 74-88	15.6	134
103	On the Universality of Axon P Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2816-29	10.3	124
102	A Strengthened Dominance Relation Considering Convergence and Diversity for Evolutionary Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 331-345	15.6	101
101	Spiking neural P systems with thresholds. <i>Neural Computation</i> , 2014 , 26, 1340-61	2.9	94
100	Deterministic solutions to QSAT and Q3SAT by spiking neural P systems with pre-computed resources. <i>Theoretical Computer Science</i> , 2010 , 411, 2345-2358	1.1	89
99	An Evolutionary Algorithm for Large-Scale Sparse Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 380-393	15.6	81
98	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 949-961	15.6	78
97	A Mixed Representation-Based Multiobjective Evolutionary Algorithm for Overlapping Community Detection. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2703-2716	10.2	64
96	A radial space division based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2017 , 61, 603-621	7.5	64
95	Effectiveness and efficiency of non-dominated sorting for evolutionary multi- and many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 247-263	7.1	63

94	Computational power of tissue P systems for generating control languages. <i>Information Sciences</i> , 2014 , 278, 285-297	7.7	63
93	Efficient Large-Scale Multiobjective Optimization Based on a Competitive Swarm Optimizer. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3696-3708	10.2	60
92	Spiking Neural P Systems With White Hole Neurons. <i>IEEE Transactions on Nanobioscience</i> , 2016 , 15, 666-673	6.7	59
91	A Coevolutionary Framework for Constrained Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 102-116	15.6	59
90	Time-free spiking neural P systems. <i>Neural Computation</i> , 2011 , 23, 1320-42	2.9	53
89	On some classes of sequential spiking neural p systems. <i>Neural Computation</i> , 2014 , 26, 974-97	2.9	52
88	Spiking Neural P Systems with Weighted Synapses. <i>Neural Processing Letters</i> , 2012 , 35, 13-27	2.4	48
87	A region division based diversity maintaining approach for many-objective optimization. <i>Integrated Computer-Aided Engineering</i> , 2017 , 24, 279-296	5.2	47
86	A multi-objective evolutionary algorithm based on an enhanced inverted generational distance metric 2016 ,		44
85	On string languages generated by spiking neural P systems with exhaustive use of rules. <i>Natural Computing</i> , 2008 , 7, 535-549	1.3	43
84	Performing four basic arithmetic operations with spiking neural P systems. <i>IEEE Transactions on Nanobioscience</i> , 2012 , 11, 366-74	3.4	42
83	Diversity Assessment of Multi-Objective Evolutionary Algorithms: Performance Metric and Benchmark Problems [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , 2019 , 14, 61-74	5.6	41
82	Overlapping Community Detection based on Network Decomposition. <i>Scientific Reports</i> , 2016 , 6, 24115	4.9	40
81	Approximate non-dominated sorting for evolutionary many-objective optimization. <i>Information Sciences</i> , 2016 , 369, 14-33	7.7	40
80	Homogeneous Spiking Neural P Systems. <i>Fundamenta Informaticae</i> , 2009 , 97, 275-294	1	39
79	Pattern Recommendation in Task-oriented Applications: A Multi-Objective Perspective [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 43-53	5.6	37
78	A Network Reduction-Based Multiobjective Evolutionary Algorithm for Community Detection in Large-Scale Complex Networks. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 703-716	10.2	34
77	A membrane evolutionary algorithm for DNA sequence design in DNA computing. <i>Science Bulletin</i> , 2012 , 57, 698-706		33

76	Solving Large-Scale Multiobjective Optimization Problems With Sparse Optimal Solutions via Unsupervised Neural Networks. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3115-3128	10.2	33
75	A Fast Overlapping Community Detection Algorithm Based on Weak Cliques for Large-Scale Networks. <i>IEEE Transactions on Computational Social Systems</i> , 2017 , 4, 218-230	4.5	31
74	Spiking neural P systems with a generalized use of rules. <i>Neural Computation</i> , 2014 , 26, 2925-43	2.9	31
73	Complex Network Clustering by a Multi-objective Evolutionary Algorithm Based on Decomposition and Membrane Structure. <i>Scientific Reports</i> , 2016 , 6, 33870	4.9	28
72	On languages generated by asynchronous spiking neural P systems. <i>Theoretical Computer Science</i> , 2009 , 410, 2478-2488	1.1	28
71	Sampling Reference Points on the Pareto Fronts of Benchmark Multi-Objective Optimization Problems 2018 ,		28
70	Tissue P systems with cell separation: attacking the partition problem. <i>Science China Information Sciences</i> , 2011 , 54, 293-304	3.4	27
69	Community detection in complex networks with an ambiguous structure using central node based link prediction. <i>Knowledge-Based Systems</i> , 2020 , 195, 105626	7.3	26
68	A local information based multi-objective evolutionary algorithm for community detection in complex networks. <i>Applied Soft Computing Journal</i> , 2018 , 69, 357-367	7.5	26
67	Sequential spiking neural P systems with exhaustive use of rules. <i>BioSystems</i> , 2012 , 108, 52-62	1.9	25
66	Guiding Evolutionary Multiobjective Optimization With Generic Front Modeling. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1106-1119	10.2	21
65	A seed-expanding method based on random walks for community detection in networks with ambiguous community structures. <i>Scientific Reports</i> , 2017 , 7, 41830	4.9	20
64	Demand coverage diversity based ant colony optimization for dynamic vehicle routing problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 91, 103582	7.2	19
63	A multi-stage evolutionary algorithm for multi-objective optimization with complex constraints. <i>Information Sciences</i> , 2021 , 560, 68-91	7.7	17
62	A Surrogate-Assisted Multiobjective Evolutionary Algorithm for Large-Scale Task-Oriented Pattern Mining. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2019 , 3, 106-116	4.1	16
61	A non-revisiting genetic algorithm based on a novel binary space partition tree. <i>Information Sciences</i> , 2020 , 512, 661-674	7.7	15
60	Balancing Objective Optimization and Constraint Satisfaction in Constrained Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	15
59	On String Languages Generated by Spiking Neural P Systems With Structural Plasticity. <i>IEEE Transactions on Nanobioscience</i> , 2018 , 17, 560-566	3.4	15

58	A Multistage Evolutionary Algorithm for Better Diversity Preservation in Multiobjective Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-15	7.3	14
57	A Multipopulation Evolutionary Algorithm for Solving Large-Scale Multimodal Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 405-418	15.6	14
56	An Evolutionary Multiobjective Optimization Based Fuzzy Method for Overlapping Community Detection. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2841-2855	8.3	14
55	Multi-Objective Optimization of Critical Node Detection Based on Cascade Model in Complex Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 2052-2066	4.9	13
54	A Clustering-Based Surrogate-Assisted Multiobjective Evolutionary Algorithm for Shelter Location Problem Under Uncertainty of Road Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7544-7555	11.9	12
53	Evolutionary Large-Scale Multi-Objective Optimization: A Survey. <i>ACM Computing Surveys</i> , 2022 , 54, 1-34	13.4	12
52	A Recommender System for Metaheuristic Algorithms for Continuous Optimization Based on Deep Recurrent Neural Networks. <i>IEEE Transactions on Artificial Intelligence</i> , 2020 , 1, 5-18	4.7	12
51	An algorithm based on positive and negative links for community detection in signed networks. <i>Scientific Reports</i> , 2017 , 7, 10874	4.9	11
50	Weighted Spiking Neural P Systems with Rules on Synapses. <i>Fundamenta Informaticae</i> , 2014 , 134, 201-218	11	11
49	A Community Structure Enhancement-Based Community Detection Algorithm for Complex Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 2833-2846	7.3	11
48	A seasonal-trend decomposition-based dendritic neuron model for financial time series prediction. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107488	7.5	11
47	A parallel multi-objective evolutionary algorithm for community detection in large-scale complex networks. <i>Information Sciences</i> , 2021 , 576, 374-392	7.7	11
46	A multi-objective membrane algorithm guided by the skin membrane. <i>Natural Computing</i> , 2016 , 15, 597-610	6.30	10
45	A unified method of detecting core-periphery structure and community structure in networks. <i>Chaos</i> , 2018 , 28, 013122	3.3	9
44	Low-rank subspace learning based network community detection. <i>Knowledge-Based Systems</i> , 2018 , 155, 71-82	7.3	9
43	AdaBoost-inspired multi-operator ensemble strategy for multi-objective evolutionary algorithms. <i>Neurocomputing</i> , 2020 , 384, 243-255	5.4	9
42	An improved reference point sampling method on Pareto optimal front 2016 ,		9
41	Multi-objective evolutionary algorithm for optimizing the partial area under the ROC curve. <i>Knowledge-Based Systems</i> , 2019 , 170, 61-69	7.3	9

40	A new history-guided multi-objective evolutionary algorithm based on decomposition for batching scheduling. <i>Expert Systems With Applications</i> , 2020 , 141, 112920	7.8	8
39	A Heuristic Algorithm for Identifying Molecular Signatures in Cancer. <i>IEEE Transactions on Nanobioscience</i> , 2020 , 19, 132-141	3.4	8
38	A Local-Neighborhood Information Based Overlapping Community Detection Algorithm for Large-Scale Complex Networks. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 29, 543-556	3.8	7
37	Paired Offspring Generation for Constrained Large-Scale Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 448-462	15.6	7
36	A Pairwise Proximity Learning-Based Ant Colony Algorithm for Dynamic Vehicle Routing Problems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-12	6.1	7
35	Two-Stage Selective Ensemble of CNN via Deep Tree Training for Medical Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	7
34	A Gradient-Guided Evolutionary Approach to Training Deep Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	7
33	Iterated Problem Reformulation for Evolutionary Large-Scale Multiobjective Optimization 2020 ,		6
32	EMODMI: A Multi-Objective Optimization Based Method to Identify Disease Modules. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 570-582	4.1	6
31	Using PlatEMO to Solve Multi-Objective Optimization Problems in Applications: A Case Study on Feature Selection 2019 ,		5
30	Maximizing receiver operating characteristics convex hull via dynamic reference point-based multi-objective evolutionary algorithm. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105896	7.5	5
29	An Evolutionary Multiobjective Route Grouping-Based Heuristic Algorithm for Large-Scale Capacitated Vehicle Routing Problems. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4173-4186	10.2	5
28	A local-to-global scheme-based multi-objective evolutionary algorithm for overlapping community detection on large-scale complex networks. <i>Neural Computing and Applications</i> , 2021 , 33, 5135-5149	4.8	5
27	A Pattern Mining-Based Evolutionary Algorithm for Large-Scale Sparse Multiobjective Optimization Problems. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	5
26	Deep Reinforcement Learning Based Adaptive Operator Selection for Evolutionary Multi-Objective Optimization. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2022 , 1-14	4.1	4
25	Empirical analysis of a tree-based efficient non-dominated sorting approach for many-objective optimization 2016 ,		4
24	Automated Selection of Evolutionary Multi-objective Optimization Algorithms 2019 ,		3
23	MOFSRank: A Multiobjective Evolutionary Algorithm for Feature Selection in Learning to Rank. <i>Complexity</i> , 2018 , 2018, 1-14	1.6	3

22	Spiking Neural P Systems for Arithmetic Operations 2011 ,		2
21	Dual-decoder graph autoencoder for unsupervised graph representation learning. <i>Knowledge-Based Systems</i> , 2021 , 234, 107564	7.3	2
20	A Dual-Population Based Evolutionary Algorithm for Multi-Objective Location Problem Under Uncertainty of Facilities. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-16	6.1	2
19	SOIDP: Predicting Interlayer Links in Multiplex Networks. <i>IEEE Transactions on Computational Social Systems</i> , 2021 , 1-11	4.5	2
18	Balancing topology structure and node attribute in evolutionary multi-objective community detection for attributed networks. <i>Knowledge-Based Systems</i> , 2021 , 227, 107169	7.3	2
17	Similarity analysis of DNA sequences based on a compact representation 2010 ,		1
16	An evolutionary algorithm for solving Capacitated Vehicle Routing Problems by using local information. <i>Applied Soft Computing Journal</i> , 2022 , 117, 108431	7.5	1
15	Improved SparseEA for sparse large-scale multi-objective optimization problems. <i>Complex & Intelligent Systems</i> , 1	7.1	1
14	A Local-Global Influence Indicator Based Constrained Evolutionary Algorithm for Budgeted Influence Maximization in Social Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 1557-1570	4.9	1
13	A responsive ant colony optimization for large-scale dynamic vehicle routing problems via pheromone diversity enhancement. <i>Complex & Intelligent Systems</i> , 2021 , 7, 2543	7.1	1
12	A Comparison Study of Evolutionary Algorithms on Large-Scale Sparse Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2021 , 424-437	0.9	1
11	A Fast Clustering Based Evolutionary Algorithm for Super-Large-Scale Sparse Multi-Objective Optimization. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 1-16	7	1
10	Imperceptible and Sparse Adversarial Attacks via a Dual-Population Based Constrained Evolutionary Algorithm. <i>IEEE Transactions on Artificial Intelligence</i> , 2022 , 1-1	4.7	1
9	Action Command Encoding for Surrogate Assisted Neural Architecture Search. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021 , 1-1	3	0
8	Rate-distortion optimal evolutionary algorithm for JPEG quantization with multiple rates. <i>Knowledge-Based Systems</i> , 2022 , 244, 108500	7.3	0
7	Privacy-Preserving Link Prediction in Multiple Private Networks. <i>IEEE Transactions on Computational Social Systems</i> , 2022 , 1-13	4.5	0
6	Accelerating Evolutionary Neural Architecture Search via Multi-Fidelity Evaluation. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022 , 1-1	3	0
5	An Evolutionary Algorithm Based on Multi-operator Ensemble for Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2019 , 14-24	0.9	

- 4 A uniform solution to the independent set problem through tissue P systems with cell separation. *Frontiers of Computer Science*, **2012**, 6, 477 2.2
- 3 A Large-Scale Combinatorial Many-Objective Evolutionary Algorithm for Intensity-Modulated Radiotherapy Planning. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1 15.6
- 2 Evolutionary Algorithm for Solving Complex Multiobjective Optimization Problems **2019**, 107-132
- 1 A conjugate gradient-assisted multi-objective evolutionary algorithm for fluence map optimization in radiotherapy treatment. *Complex & Intelligent Systems*, 1 7.1