

Yuhui Shi

List of Publications by Citations

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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.

128
papers

5,894
citations

31
h-index

75
g-index

145
ext. papers

7,379
ext. citations

3.3
avg, IF

6.36
L-index

#	Paper	IF	Citations
128	Parameter selection in particle swarm optimization. <i>Lecture Notes in Computer Science</i> , 1998 , 591-600	0.9	1424
127	Particle swarm optimization: developments, applications and resources		1241
126	Brain Storm Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 303-309	0.9	275
125	Metaheuristic research: a comprehensive survey. <i>Artificial Intelligence Review</i> , 2019 , 52, 2191-2233	9.7	240
124	Implementation of evolutionary fuzzy systems. <i>IEEE Transactions on Fuzzy Systems</i> , 1999 , 7, 109-119	8.3	239
123	An Optimization Algorithm Based on Brainstorming Process. <i>International Journal of Swarm Intelligence Research</i> , 2011 , 2, 35-62	1.1	165
122	Fuzzy adaptive particle swarm optimization		129
121	Brain storm optimization algorithm: a review. <i>Artificial Intelligence Review</i> , 2016 , 46, 445-458	9.7	111
120	PredatorBrey Brain Storm Optimization for DC Brushless Motor. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5336-5340	2	106
119	Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-20	7.3	100
118	Optimal Satellite Formation Reconfiguration Based on Closed-Loop Brain Storm Optimization. <i>IEEE Computational Intelligence Magazine</i> , 2013 , 8, 39-51	5.6	82
117	Particle Swarm Optimization With Interswarm Interactive Learning Strategy. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2238-2251	10.2	80
116	Population Diversity Maintenance In Brain Storm Optimization Algorithm. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2014 , 4, 83-97	5.1	57
115	Brain storm optimization algorithm in objective space 2015 ,		56
114	Monitoring of particle swarm optimization. <i>Frontiers of Computer Science</i> , 2009 , 3, 31-37		54
113	Computational intelligence 2007 , 17-38		54
112	On the exploration and exploitation in popular swarm-based metaheuristic algorithms. <i>Neural Computing and Applications</i> , 2019 , 31, 7665-7683	4.8	53

111	Solving non-convex/non-smooth economic load dispatch problems via an enhanced particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2017 , 59, 229-242	7.5	51
110	Feature selection based on brain storm optimization for data classification. <i>Applied Soft Computing Journal</i> , 2019 , 80, 761-775	7.5	49
109	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. <i>International Journal of Swarm Intelligence Research</i> , 2011 , 2, 43-69	1.1	49
108	Multi-Objective Optimization Based on Brain Storm Optimization Algorithm. <i>International Journal of Swarm Intelligence Research</i> , 2013 , 4, 1-21	1.1	44
107	Brain Storm Optimization Algorithm for Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2012 , 513-519	0.9	44
106	Brain Storm Optimization Algorithm with Modified Step-Size and Individual Generation. <i>Lecture Notes in Computer Science</i> , 2012 , 243-252	0.9	41
105	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. <i>Machine Learning</i> , 2015 , 101, 345-376	4	40
104	Hybrid brain storm optimisation and simulated annealing algorithm for continuous optimisation problems. <i>International Journal of Bio-Inspired Computation</i> , 2016 , 8, 109	2.9	37
103	Multiple strategies based orthogonal design particle swarm optimizer for numerical optimization. <i>Computers and Operations Research</i> , 2015 , 60, 91-110	4.6	36
102	Enhanced Brain Storm Optimization Algorithm for Wireless Sensor Networks Deployment. <i>Lecture Notes in Computer Science</i> , 2015 , 373-381	0.9	36
101	A quarter century of particle swarm optimization. <i>Complex & Intelligent Systems</i> , 2018 , 4, 227-239	7.1	36
100	Random Grouping Brain Storm Optimization Algorithm with a New Dynamically Changing Step Size. <i>Lecture Notes in Computer Science</i> , 2015 , 357-364	0.9	33
99	Brain storm optimization algorithms with k-medians clustering algorithms 2015 ,		32
98	Diversity control in particle swarm optimization 2011 ,		32
97	A hybrid model of fuzzy minmax and brain storm optimization for feature selection and data classification. <i>Neurocomputing</i> , 2019 , 333, 440-451	5.4	31
96	Developmental Swarm Intelligence. <i>International Journal of Swarm Intelligence Research</i> , 2014 , 5, 36-54	1.1	30
95	Advanced discussion mechanism-based brain storm optimization algorithm. <i>Soft Computing</i> , 2015 , 19, 2997-3007	3.5	29
94	An Improved Brain Storm Optimization with Differential Evolution Strategy for Applications of ANNs. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-18	1.1	29

93	A Study of Normalized Population Diversity in Particle Swarm Optimization. <i>International Journal of Swarm Intelligence Research</i> , 2013 , 4, 1-34	1.1	29
92	Solution clustering analysis in brain storm optimization algorithm 2013 ,		28
91	Population Diversity of Particle Swarms 2008 ,		28
90	Maintaining population diversity in brain storm optimization algorithm 2014 ,		26
89	Evolutionary computation for solving search-based data analytics problems. <i>Artificial Intelligence Review</i> , 2021 , 54, 1321-1348	9.7	26
88	Interactive Learning Environment for Bio-Inspired Optimization Algorithms for UAV Path Planning. <i>IEEE Transactions on Education</i> , 2015 , 58, 276-281	2.1	25
87	Swarm Intelligence in Big Data Analytics. <i>Lecture Notes in Computer Science</i> , 2013 , 417-426	0.9	24
86	Biomimicry of parasitic behavior in a coevolutionary particle swarm optimization algorithm for global optimization. <i>Applied Soft Computing Journal</i> , 2015 , 32, 224-240	7.5	23
85	Hybrid Sampling Evolution Strategy for Solving Single Objective Bound Constrained Problems 2018 ,		23
84	Population diversity based study on search information propagation in particle swarm optimization 2012 ,		21
83	Population Diversity of Particle Swarm Optimizer Solving Single and Multi-Objective Problems. <i>International Journal of Swarm Intelligence Research</i> , 2012 , 3, 23-60	1.1	21
82	Survey on data science with population-based algorithms. <i>Big Data Analytics</i> , 2016 , 1,	2.9	20
81	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 57, 706-720	3.7	19
80	Evolutionary Computation and Big Data: Key Challenges and Future Directions. <i>Lecture Notes in Computer Science</i> , 2016 , 3-14	0.9	18
79	Locating Multiple Optima via Brain Storm Optimization Algorithms. <i>IEEE Access</i> , 2018 , 6, 17039-17049	3.5	17
78	On the Performance Metrics of Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2012 , 504-512	0.9	17
77	Brain storm optimization with chaotic operation 2015 ,		16
76	Learning Interaction Diversification Framework for swarm intelligence optimizers: a unified perspective. <i>Neural Computing and Applications</i> , 2020 , 32, 1789-1809	4.8	16

75	Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems 2012 ,		15
74	Normalized Population Diversity in Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , 2011 , 38-45	0.9	15
73	Promoting Diversity in Particle Swarm Optimization to Solve Multimodal Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 228-237	0.9	15
72	A self-adaptive chaos and Kalman filter-based particle swarm optimization for economic dispatch problem. <i>Soft Computing</i> , 2017 , 21, 3353-3365	3.5	14
71	An Asymptotically Optimal Cooperative Relay Scheme for Two-Way Relaying Protocol. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 145-148	3.2	13
70	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 2347-2358	3.7	13
69	Brain Storm Optimization with Agglomerative Hierarchical Clustering Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 115-122	0.9	12
68	An Adaptive Online Parameter Control Algorithm for Particle Swarm Optimization Based on Reinforcement Learning 2019 ,		11
67	A decoupling receding horizon search approach to agent routing and optical sensor tasking based on brain storm optimization. <i>Optik</i> , 2015 , 126, 690-696	2.5	10
66	A comprehensive survey of brain storm optimization algorithms 2017 ,		9
65	Population diversity based inertia weight adaptation in Particle Swarm Optimization 2012 ,		9
64	Limit-Cycle-Based Mutant Multiobjective Pigeon-Inspired Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 948-959	15.6	8
63	Distributed learning particle swarm optimizer for global optimization of multimodal problems. <i>Frontiers of Computer Science</i> , 2018 , 12, 122-134	2.2	8
62	Alternate search pattern-based brain storm optimization. <i>Knowledge-Based Systems</i> , 2022 , 238, 107896	7.3	8
61	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 57, 848-865	3.7	8
60	Dynamic Multimodal Optimization Using Brain Storm Optimization Algorithms. <i>Communications in Computer and Information Science</i> , 2018 , 236-245	0.3	8
59	Artificial Bee Colony Algorithm with Time-Varying Strategy. <i>Discrete Dynamics in Nature and Society</i> , 2015 , 2015, 1-17	1.1	7
58	Particle swarm optimization based semi-supervised learning on Chinese text categorization 2012 ,		7

57	Unified Swarm Intelligence Algorithms. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018 , 1-26	0.4	7
56	Convergence analysis of brain storm optimization algorithm 2016 ,		7
55	Brain storm optimization algorithm for full area coverage of wireless sensor networks 2016 ,		7
54	An Unknown Environment Exploration Strategy for Swarm Robotics Based on Brain Storm Optimization Algorithm 2019 ,		6
53	Adaptive online data-driven closed-loop parameter control strategy for swarm intelligence algorithm. <i>Information Sciences</i> , 2020 , 536, 25-52	7.7	6
52	Multimodal optimization using particle swarm optimization algorithms: CEC 2015 competition on single objective multi-niche optimization 2015 ,		6
51	Generalized pigeon-inspired optimization algorithms. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	5
50	Chaotic predator-prey brain storm optimization for continuous optimization problems 2017 ,		5
49	Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space. <i>International Journal of Swarm Intelligence Research</i> , 2015 , 6, 52-86	1.1	5
48	Contour Gradient Optimization. <i>International Journal of Swarm Intelligence Research</i> , 2013 , 4, 1-28	1.1	5
47	Brain Storm Optimization in Objective Space Algorithm for Multimodal Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2016 , 469-478	0.9	5
46	Visual fixation prediction with incomplete attention map based on brain storm optimization. <i>Applied Soft Computing Journal</i> , 2020 , 96, 106653	7.5	5
45	A Novel Local Community Detection Method Using Evolutionary Computation. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3348-3360	10.2	5
44	Dynamic Multimodal Optimization: A Preliminary Study 2019 ,		4
43	Brain Storm Optimization Algorithm Based on Improved Clustering Approach Using Orthogonal Experimental Design 2019 ,		4
42	Multi-center variable-scale search algorithm for combinatorial optimization problems with the multimodal property. <i>Applied Soft Computing Journal</i> , 2019 , 84, 105726	7.5	4
41	Exploration Enhanced RPSO for Collaborative Multitarget Searching of Robotic Swarms. <i>Complexity</i> , 2020 , 2020, 1-12	1.6	4
40	Close formation flight of swarm unmanned aerial vehicles via metric-distance brain storm optimization. <i>Memetic Computing</i> , 2018 , 10, 369-381	3.4	4

39	Feature Selection via Swarm Intelligence for Determining Protein Essentiality. <i>Molecules</i> , 2018 , 23,	4.8	4
38	An improved Brain Storm Optimization algorithm based on graph theory 2017 ,		4
37	Particle Swarm Optimization in Regression Analysis: A Case Study. <i>Lecture Notes in Computer Science</i> , 2013 , 55-63	0.9	4
36	Swarm Intelligence in Data Science: Applications, Opportunities and Challenges. <i>Lecture Notes in Computer Science</i> , 2020 , 3-14	0.9	4
35	Cooperative coevolution of real predator robots and virtual robots in the pursuit domain. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106098	7.5	4
34	Brain Storm Optimization Algorithms: More Questions than Answers. <i>Adaptation, Learning, and Optimization</i> , 2019 , 3-32	0.7	3
33	BSO-AL: Brain Storm Optimization Algorithm with Adaptive Learning Strategy 2020 ,		3
32	mBSO: A Multi-Population Brain Storm Optimization for Multimodal Dynamic Optimization Problems 2019 ,		3
31	Consensus Learning for Distributed Fuzzy Neural Network in Big Data Environment. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 29-41	4.1	3
30	EEG-Based Drowsiness Estimation for Driving Safety Using Deep Q-Learning. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 583-594	4.1	3
29	Brain storm optimization algorithm for solving knowledge spillover problems. <i>Neural Computing and Applications</i> ,1	4.8	3
28	Brain storm optimization algorithms for optimal coverage of wireless sensor networks 2015 ,		2
27	Sparse FIR Filter Design Using Binary Particle Swarm Optimization. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2014 , E97.A, 2653-2657	0.4	2
26	Population Diversity of Particle Swarm Optimizer Solving Single- and Multi-Objective Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015 , 71-98	0.4	2
25	Normalized Ranking Based Particle Swarm Optimizer for Many Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2017 , 347-357	0.9	2
24	A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals. <i>Lecture Notes in Computer Science</i> , 2017 , 27-38	0.9	2
23	A Novel Multi-Task Optimization Algorithm Based on the Brainstorming Process. <i>IEEE Access</i> , 2020 , 8, 217134-217149	3.5	2
22	An adaptive niching method based on multi-strategy fusion for multimodal optimization. <i>Memetic Computing</i> , 2021 , 13, 341-357	3.4	2

21	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 57, 2218-2224	3.7	2
20	Brain Storm Optimization for Test Task Scheduling Problem. <i>Adaptation, Learning, and Optimization</i> , 2019 , 35-59	0.7	1
19	BSO-CLS: Brain Storm Optimization Algorithm with Cooperative Learning Strategy. <i>Lecture Notes in Computer Science</i> , 2020 , 243-250	0.9	1
18	BSOGCN: Brain Storm Optimization Graph Convolutional Networks Based Heterogeneous Information Networks Embedding 2020 ,		1
17	Brain Storm Robotics: An Automatic Design Framework for Multi-Robot Systems 2020 ,		1
16	BSO20: efficient brain storm optimization for real-parameter numerical optimization. <i>Complex & Intelligent Systems</i> , 2021 , 7, 2415	7.1	1
15	Evolutionary Dynamic Multiobjective Optimization via Learning From Historical Search Process. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	1
14	Special Section on Swarm-Based Algorithms and Applications in Computational Biology and Bioinformatics. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018 , 15, 1863-1864 ³		1
13	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 217-246	0.4	0
12	Automatic synthesizing multi-robot cooperation strategies based on Brain Storm Robotics. <i>Applied Soft Computing Journal</i> , 2022 , 120, 108672	7.5	0
11	An improved extremal optimization based on the distribution knowledge of candidate solutions. <i>Natural Computing</i> , 2017 , 16, 135-149	1.3	
10	A Feature Extraction Method Based on BSO Algorithm for Flight Data. <i>Adaptation, Learning, and Optimization</i> , 2019 , 157-188	0.7	
9	An Analysis of Fireworks Algorithm Solving Problems With Shifts in the Decision Space and Objective Space. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 277-311	0.4	
8	A Study of Normalized Population Diversity in Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 345-381	0.4	
7	Population Diversity of Particle Swarm Optimization Algorithm on Solving Single and Multi-Objective Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 312-344 ^{0.4}		
6	Developmental Swarm Intelligence ³⁴⁹⁻³⁶⁷		
5	Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space ¹⁰⁰⁸⁻¹⁰³⁸		
4	An Analysis on Fireworks Algorithm Solving Problems With Shifts in the Decision Space and Objective Space. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018 , 119-153	0.4	

- 3 Contour Gradient Optimization. *Advances in Computational Intelligence and Robotics Book Series*, **2020**, 247-276 0.4
- 2 Robotic Brain Storm Optimization: A Multi-target Collaborative Searching Paradigm for Swarm Robotics. *Lecture Notes in Computer Science*, **2021**, 155-167 0.9
- 1 Community Detection Based on Surrogate Network. *Communications in Computer and Information Science*, **2022**, 45-53 0.3