

Yuhui Shi

List of Publications by Year in descending order

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139
papers

9,550
citations

136885

32
h-index

69214

77
g-index

145
all docs

145
docs citations

145
times ranked

5366
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter selection in particle swarm optimization. Lecture Notes in Computer Science, 1998, , 591-600.	1.0	2,169
2	Particle swarm optimization: developments, applications and resources. , 0, , .		2,117
3	Metaheuristic research: a comprehensive survey. Artificial Intelligence Review, 2019, 52, 2191-2233.	9.7	480
4	Fuzzy adaptive particle swarm optimization. , 0, , .		461
5	Brain Storm Optimization Algorithm. Lecture Notes in Computer Science, 2011, , 303-309.	1.0	440
6	Implementation of evolutionary fuzzy systems. IEEE Transactions on Fuzzy Systems, 1999, 7, 109-119.	6.5	350
7	An Optimization Algorithm Based on Brainstorming Process. International Journal of Swarm Intelligence Research, 2011, 2, 35-62.	0.5	208
8	Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6723-6742.	5.9	197
9	Brain storm optimization algorithm: a review. Artificial Intelligence Review, 2016, 46, 445-458.	9.7	169
10	On the exploration and exploitation in popular swarm-based metaheuristic algorithms. Neural Computing and Applications, 2019, 31, 7665-7683.	3.2	149
11	Predator-Prey Brain Storm Optimization for DC Brushless Motor. IEEE Transactions on Magnetics, 2013, 49, 5336-5340.	1.2	127
12	Particle Swarm Optimization With Interswarm Interactive Learning Strategy. IEEE Transactions on Cybernetics, 2016, 46, 2238-2251.	6.2	110
13	Optimal Satellite Formation Reconfiguration Based on Closed-Loop Brain Storm Optimization. IEEE Computational Intelligence Magazine, 2013, 8, 39-51.	3.4	99
14	Population Diversity Maintenance In Brain Storm Optimization Algorithm. Journal of Artificial Intelligence and Soft Computing Research, 2014, 4, 83-97.	3.5	90
15	Dynamic Discrete Pigeon-Inspired Optimization for Multi-UAV Cooperative Search-Attack Mission Planning. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 706-720.	2.6	84
16	Solving non-convex/non-smooth economic load dispatch problems via an enhanced particle swarm optimization. Applied Soft Computing Journal, 2017, 59, 229-242.	4.1	79
17	Brain storm optimization algorithm in objective space. , 2015, , .		77
18	Feature selection based on brain storm optimization for data classification. Applied Soft Computing Journal, 2019, 80, 761-775.	4.1	68

#	ARTICLE	IF	CITATIONS
19	Computational intelligence. , 2007, , 17-38.		67
20	Monitoring of particle swarm optimization. Frontiers of Computer Science, 2009, 3, 31-37.	0.6	67
21	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. Machine Learning, 2015, 101, 345-376.	3.4	64
22	Multi-Objective Optimization Based on Brain Storm Optimization Algorithm. International Journal of Swarm Intelligence Research, 2013, 4, 1-21.	0.5	60
23	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. International Journal of Swarm Intelligence Research, 2011, 2, 43-69.	0.5	58
24	Brain Storm Optimization Algorithm for Multi-objective Optimization Problems. Lecture Notes in Computer Science, 2012, , 513-519.	1.0	58
25	A quarter century of particle swarm optimization. Complex & Intelligent Systems, 2018, 4, 227-239.	4.0	54
26	Brain Storm Optimization Algorithm with Modified Step-Size and Individual Generation. Lecture Notes in Computer Science, 2012, , 243-252.	1.0	49
27	A hybrid model of fuzzy min-max and brain storm optimization for feature selection and data classification. Neurocomputing, 2019, 333, 440-451.	3.5	48
28	Multiple strategies based orthogonal design particle swarm optimizer for numerical optimization. Computers and Operations Research, 2015, 60, 91-110.	2.4	47
29	Hybrid brain storm optimisation and simulated annealing algorithm for continuous optimisation problems. International Journal of Bio-Inspired Computation, 2016, 8, 109.	0.6	46
30	Enhanced Brain Storm Optimization Algorithm for Wireless Sensor Networks Deployment. Lecture Notes in Computer Science, 2015, , 373-381.	1.0	45
31	Hybrid Sampling Evolution Strategy for Solving Single Objective Bound Constrained Problems. , 2018, , .		44
32	Advanced discussion mechanism-based brain storm optimization algorithm. Soft Computing, 2015, 19, 2997-3007.	2.1	43
33	Random Grouping Brain Storm Optimization Algorithm with a New Dynamically Changing Step Size. Lecture Notes in Computer Science, 2015, , 357-364.	1.0	43
34	Population Diversity of Particle Swarms. , 2008, , .		42
35	Diversity control in particle swarm optimization. , 2011, , .		40
36	Solution clustering analysis in brain storm optimization algorithm. , 2013, , .		38

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37	Brain storm optimization algorithms with k-medians clustering algorithms. , 2015, , .		38
38	Evolutionary computation for solving search-based data analytics problems. Artificial Intelligence Review, 2021, 54, 1321-1348.	9.7	38
39	An Improved Brain Storm Optimization with Differential Evolution Strategy for Applications of ANNs. Mathematical Problems in Engineering, 2015, 2015, 1-18.	0.6	35
40	A Study of Normalized Population Diversity in Particle Swarm Optimization. International Journal of Swarm Intelligence Research, 2013, 4, 1-34.	0.5	34
41	Developmental Swarm Intelligence. International Journal of Swarm Intelligence Research, 2014, 5, 36-54.	0.5	34
42	Interactive Learning Environment for Bio-Inspired Optimization Algorithms for UAV Path Planning. IEEE Transactions on Education, 2015, 58, 276-281.	2.0	34
43	Survey on data science with population-based algorithms. Big Data Analytics, 2016, 1, .	2.2	33
44	Maintaining population diversity in brain storm optimization algorithm. , 2014, , .		31
45	An Adaptive Online Parameter Control Algorithm for Particle Swarm Optimization Based on Reinforcement Learning. , 2019, , .		30
46	Swarm Intelligence in Big Data Analytics. Lecture Notes in Computer Science, 2013, , 417-426.	1.0	29
47	Biomimicry of parasitic behavior in a coevolutionary particle swarm optimization algorithm for global optimization. Applied Soft Computing Journal, 2015, 32, 224-240.	4.1	27
48	Limit-Cycle-Based Mutant Multiobjective Pigeon-Inspired Optimization. IEEE Transactions on Evolutionary Computation, 2020, 24, 948-959.	7.5	27
49	Population Diversity of Particle Swarm Optimizer Solving Single and Multi-Objective Problems. International Journal of Swarm Intelligence Research, 2012, 3, 23-60.	0.5	27
50	Learningâ€“interactionâ€“diversification framework for swarm intelligence optimizers: a unified perspective. Neural Computing and Applications, 2020, 32, 1789-1809.	3.2	26
51	On the Performance Metrics of Multiobjective Optimization. Lecture Notes in Computer Science, 2012, , 504-512.	1.0	26
52	Population diversity based study on search information propagation in particle swarm optimization. , 2012, , .		24
53	Evolutionary Computation and Big Data: Key Challenges and Future Directions. Lecture Notes in Computer Science, 2016, , 3-14.	1.0	24
54	Locating Multiple Optima via Brain Storm Optimization Algorithms. IEEE Access, 2018, 6, 17039-17049.	2.6	23

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55	Predator-Prey Pigeon-Inspired Optimization for UAV ALS Longitudinal Parameters Tuning. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2347-2358.	2.6	23
56	Bionic Visual Control for Probe-and-Drogue Autonomous Aerial Refueling. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 848-865.	2.6	23
57	Alternate search pattern-based brain storm optimization. Knowledge-Based Systems, 2022, 238, 107896.	4.0	23
58	A Novel Local Community Detection Method Using Evolutionary Computation. IEEE Transactions on Cybernetics, 2021, 51, 3348-3360.	6.2	22
59	Promoting Diversity in Particle Swarm Optimization to Solve Multimodal Problems. Lecture Notes in Computer Science, 2011, , 228-237.	1.0	21
60	Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems. , 2012, , .		20
61	A self-adaptive chaos and Kalman filter-based particle swarm optimization for economic dispatch problem. Soft Computing, 2017, 21, 3353-3365.	2.1	20
62	A comprehensive survey of brain storm optimization algorithms. , 2017, , .		18
63	Evolutionary Dynamic Multiobjective Optimization via Learning From Historical Search Process. IEEE Transactions on Cybernetics, 2022, 52, 6119-6130.	6.2	18
64	An Asymptotically Optimal Cooperative Relay Scheme for Two-Way Relaying Protocol. IEEE Signal Processing Letters, 2010, 17, 145-148.	2.1	17
65	Brain storm optimization with chaotic operation. , 2015, , .		17
66	Normalized Population Diversity in Particle Swarm Optimization. Lecture Notes in Computer Science, 2011, , 38-45.	1.0	17
67	Brain Storm Optimization with Agglomerative Hierarchical Clustering Analysis. Lecture Notes in Computer Science, 2016, , 115-122.	1.0	14
68	Exploration Enhanced RPSO for Collaborative Multitarget Searching of Robotic Swarms. Complexity, 2020, 2020, 1-12.	0.9	13
69	The use of deep learning methods in low-dose computed tomography image reconstruction: a systematic review. Complex & Intelligent Systems, 2022, 8, 5545-5561.	4.0	13
70	A decoupling receding horizon search approach to agent routing and optical sensor tasking based on brain storm optimization. Optik, 2015, 126, 690-696.	1.4	12
71	Dynamic Multimodal Optimization Using Brain Storm Optimization Algorithms. Communications in Computer and Information Science, 2018, , 236-245.	0.4	12
72	Adaptive online data-driven closed-loop parameter control strategy for swarm intelligence algorithm. Information Sciences, 2020, 536, 25-52.	4.0	12

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73	EEG-Based Drowsiness Estimation for Driving Safety Using Deep Q-Learning. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 583-594.	3.4	12
74	Population diversity based inertia weight adaptation in Particle Swarm Optimization. , 2012, , .		11
75	An Unknown Environment Exploration Strategy for Swarm Robotics Based on Brain Storm Optimization Algorithm. , 2019, , .		11
76	Particle swarm optimization based semi-supervised learning on Chinese text categorization. , 2012, , .		10
77	Convergence analysis of brain storm optimization algorithm. , 2016, , .		10
78	Distributed learning particle swarm optimizer for global optimization of multimodal problems. Frontiers of Computer Science, 2018, 12, 122-134.	1.6	10
79	Consensus Learning for Distributed Fuzzy Neural Network in Big Data Environment. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 29-41.	3.4	10
80	BSO20: efficient brain storm optimization for real-parameter numerical optimization. Complex & Intelligent Systems, 2021, 7, 2415-2436.	4.0	10
81	An adaptive niching method based on multi-strategy fusion for multimodal optimization. Memetic Computing, 2021, 13, 341-357.	2.7	10
82	Visual fixation prediction with incomplete attention map based on brain storm optimization. Applied Soft Computing Journal, 2020, 96, 106653.	4.1	9
83	BSO-AL: Brain Storm Optimization Algorithm with Adaptive Learning Strategy. , 2020, , .		9
84	A Novel Multi-Task Optimization Algorithm Based on the Brainstorming Process. IEEE Access, 2020, 8, 217134-217149.	2.6	9
85	Brain storm optimization algorithm for solving knowledge spillover problems. Neural Computing and Applications, 2023, 35, 12247-12260.	3.2	9
86	Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space. International Journal of Swarm Intelligence Research, 2015, 6, 52-86.	0.5	8
87	Multi-center variable-scale search algorithm for combinatorial optimization problems with the multimodal property. Applied Soft Computing Journal, 2019, 84, 105726.	4.1	8
88	Generalized pigeon-inspired optimization algorithms. Science China Information Sciences, 2019, 62, 1.	2.7	8
89	Particle Swarm Optimization in Regression Analysis: A Case Study. Lecture Notes in Computer Science, 2013, , 55-63.	1.0	7
90	Artificial Bee Colony Algorithm with Time-Varying Strategy. Discrete Dynamics in Nature and Society, 2015, 2015, 1-17.	0.5	7

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91	Brain storm optimization algorithm for full area coverage of wireless sensor networks. , 2016, , .		7
92	Homing Pigeon-Inspired Autonomous Navigation System for Unmanned Aerial Vehicles. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2218-2224.	2.6	7
93	Unified Swarm Intelligence Algorithms. Advances in Computational Intelligence and Robotics Book Series, 2018, , 1-26.	0.4	7
94	Contour Gradient Optimization. International Journal of Swarm Intelligence Research, 2013, 4, 1-28.	0.5	7
95	Swarm Intelligence in Data Science: Applications, Opportunities and Challenges. Lecture Notes in Computer Science, 2020, , 3-14.	1.0	7
96	Community Detection in Multiplex Networks Based on Evolutionary Multitask Optimization and Evolutionary Clustering Ensemble. IEEE Transactions on Evolutionary Computation, 2023, 27, 728-742.	7.5	7
97	Multimodal optimization using particle swarm optimization algorithms: CEC 2015 competition on single objective multi-niche optimization. , 2015, , .		6
98	Feature Selection via Swarm Intelligence for Determining Protein Essentiality. Molecules, 2018, 23, 1569.	1.7	6
99	mBSO: A Multi-Population Brain Storm Optimization for Multimodal Dynamic Optimization Problems. , 2019, , .		6
100	Cooperative coevolution of real predator robots and virtual robots in the pursuit domain. Applied Soft Computing Journal, 2020, 89, 106098.	4.1	6
101	Chaotic predator-prey brain storm optimization for continuous optimization problems. , 2017, , .		5
102	Close formation flight of swarm unmanned aerial vehicles via metric-distance brain storm optimization. Memetic Computing, 2018, 10, 369-381.	2.7	5
103	Dynamic Multimodal Optimization: A Preliminary Study. , 2019, , .		5
104	Brain Storm Optimization Algorithm Based on Improved Clustering Approach Using Orthogonal Experimental Design. , 2019, , .		5
105	An improved Brain Storm Optimization algorithm based on graph theory. , 2017, , .		4
106	Brain Storm Optimization Algorithms: More Questions than Answers. Adaptation, Learning, and Optimization, 2019, , 3-32.	0.5	4
107	Sparse FIR Filter Design Using Binary Particle Swarm Optimization. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2653-2657.	0.2	3
108	Brain storm optimization algorithms for optimal coverage of wireless sensor networks. , 2015, , .		3

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109	Thematic issue on "Brain Storm Optimization Algorithms" Memetic Computing, 2018, 10, 351-352.	2.7	3
110	Binocular Pose Estimation for UAV Autonomous Aerial Refueling via Brain Storm Optimization. , 2019, , .		3
111	TraceBERT" A Feasibility Study on Reconstructing Spatial"Temporal Gaps from Incomplete Motion Trajectories via BERT Training Process on Discrete Location Sequences. Sensors, 2022, 22, 1682.	2.1	3
112	Editorial: Special Section on Bio-Inspired Swarm Computing and Engineering. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1-3.	1.9	2
113	Brain Storm Robotics: An Automatic Design Framework for Multi-Robot Systems. , 2020, , .		2
114	A Hybrid BSO-ACS Algorithm for Vehicle Routing Problem with Time Windows on Road Networks. , 2020, , .		2
115	Normalized Ranking Based Particle Swarm Optimizer for Many Objective Optimization. Lecture Notes in Computer Science, 2017, , 347-357.	1.0	2
116	Population Diversity of Particle Swarm Optimizer Solving Single- and Multi-Objective Problems. Advances in Computational Intelligence and Robotics Book Series, 2015, , 71-98.	0.4	2
117	A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals. Lecture Notes in Computer Science, 2017, , 27-38.	1.0	2
118	Automatic synthesizing multi-robot cooperation strategies based on Brain Storm Robotics. Applied Soft Computing Journal, 2022, 120, 108672.	4.1	2
119	Special Section on Swarm-Based Algorithms and Applications in Computational Biology and Bioinformatics. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1863-1864.	1.9	1
120	A Feature Extraction Method Based on BSO Algorithm for Flight Data. Adaptation, Learning, and Optimization, 2019, , 157-188.	0.5	1
121	BSOGCN: Brain Storm Optimization Graph Convolutional Networks Based Heterogeneous Information Networks Embedding. , 2020, , .		1
122	Adaptive Coordinated Motion Control for Swarm Robotics Based on Brain Storm Optimization. , 2021, , .		1
123	Attention-oriented Brain Storm Optimization for Multimodal Optimization Problems. , 2021, , .		1
124	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 217-246.	0.4	1
125	Evolutionary Robust Clustering Over Time for Temporal Data. IEEE Transactions on Cybernetics, 2023, 53, 4334-4346.	6.2	1
126	Examples initialization in Chinese text categorization. , 2013, , .		0

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127	An improved extremal optimization based on the distribution knowledge of candidate solutions. Natural Computing, 2017, 16, 135-149.	1.8	0
128	Improving estimation of distribution algorithms with heavy-tailed student's t distributions. , 2018, , .		0
129	Gradient-free Algorithms for Graph Embedding. , 2019, , .		0
130	Robotic Brain Storm Optimization: A Multi-target Collaborative Searching Paradigm for Swarm Robotics. Lecture Notes in Computer Science, 2021, , 155-167.	1.0	0
131	Multiple-Preys Pursuit based on Biquadratic Assignment Problem. , 2021, , .		0
132	An Analysis on Fireworks Algorithm Solving Problems With Shifts in the Decision Space and Objective Space. Advances in Computational Intelligence and Robotics Book Series, 2018, , 119-153.	0.4	0
133	Contour Gradient Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 247-276.	0.4	0
134	An Analysis of Fireworks Algorithm Solving Problems With Shifts in the Decision Space and Objective Space. Advances in Computational Intelligence and Robotics Book Series, 2020, , 277-311.	0.4	0
135	A Study of Normalized Population Diversity in Particle Swarm Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 345-381.	0.4	0
136	Population Diversity of Particle Swarm Optimization Algorithm on Solving Single and Multi-Objective Problems. Advances in Computational Intelligence and Robotics Book Series, 2020, , 312-344.	0.4	0
137	Developmental Swarm Intelligence. , 0, , 349-367.		0
138	Analytcs on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space. , 0, , 1008-1038.		0
139	An Improvement Heuristic Based on Variable Neighborhood Search for Dynamic Orienteering Problems with Changing Node Values and Changing Budgets. SN Computer Science, 2022, 3, .	2.3	0