

# Yuhui Shi

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6625967/yuhui-shi-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Alternate search pattern-based brain storm optimization. <i>Knowledge-Based Systems</i> , <b>2022</b> , 238, 107896	7.3	8
127	Automatic synthesizing multi-robot cooperation strategies based on Brain Storm Robotics. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 120, 108672	7.5	0
126	Community Detection Based on Surrogate Network. <i>Communications in Computer and Information Science</i> , <b>2022</b> , 45-53	0.3	
125	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 57, 848-865	3.7	8
124	BSO20: efficient brain storm optimization for real-parameter numerical optimization. <i>Complex &amp; Intelligent Systems</i> , <b>2021</b> , 7, 2415	7.1	1
123	An adaptive niching method based on multi-strategy fusion for multimodal optimization. <i>Memetic Computing</i> , <b>2021</b> , 13, 341-357	3.4	2
122	Consensus Learning for Distributed Fuzzy Neural Network in Big Data Environment. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 5, 29-41	4.1	3
121	Evolutionary computation for solving search-based data analytics problems. <i>Artificial Intelligence Review</i> , <b>2021</b> , 54, 1321-1348	9.7	26
120	EEG-Based Drowsiness Estimation for Driving Safety Using Deep Q-Learning. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 5, 583-594	4.1	3
119	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 57, 706-720	3.7	19
118	A Novel Local Community Detection Method Using Evolutionary Computation. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3348-3360	10.2	5
117	Evolutionary Dynamic Multiobjective Optimization via Learning From Historical Search Process. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
116	Robotic Brain Storm Optimization: A Multi-target Collaborative Searching Paradigm for Swarm Robotics. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 155-167	0.9	
115	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 57, 2218-2224	3.7	2
114	Exploration Enhanced RPSO for Collaborative Multitarget Searching of Robotic Swarms. <i>Complexity</i> , <b>2020</b> , 2020, 1-12	1.6	4
113	Adaptive online data-driven closed-loop parameter control strategy for swarm intelligence algorithm. <i>Information Sciences</i> , <b>2020</b> , 536, 25-52	7.7	6
112	Limit-Cycle-Based Mutant Multiobjective Pigeon-Inspired Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 948-959	15.6	8

111	Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-20	7.3	100
110	Swarm Intelligence in Data Science: Applications, Opportunities and Challenges. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-14	0.9	4
109	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> , <b>2020</b> , 277-311	0.4	
108	A Study of Normalized Population Diversity in Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2020</b> , 345-381	0.4	
107	Population Diversity of Particle Swarm Optimization Algorithm on Solving Single and Multi-Objective Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2020</b> , 312-344	0.4	
106	Contour Gradient Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2020</b> , 247-276	0.4	
105	BSO-CLS: Brain Storm Optimization Algorithm with Cooperative Learning Strategy. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 243-250	0.9	1
104	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2020</b> , 217-246	0.4	0
103	Visual fixation prediction with incomplete attention map based on brain storm optimization. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 96, 106653	7.5	5
102	Cooperative coevolution of real predator robots and virtual robots in the pursuit domain. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 89, 106098	7.5	4
101	BSOGCN: Brain Storm Optimization Graph Convolutional Networks Based Heterogeneous Information Networks Embedding <b>2020</b> ,		1
100	Brain Storm Robotics: An Automatic Design Framework for Multi-Robot Systems <b>2020</b> ,		1
99	BSO-AL: Brain Storm Optimization Algorithm with Adaptive Learning Strategy <b>2020</b> ,		3
98	A Novel Multi-Task Optimization Algorithm Based on the Brainstorming Process. <i>IEEE Access</i> , <b>2020</b> , 8, 217134-217149	3.5	2
97	Learning Interaction Diversification framework for swarm intelligence optimizers: a unified perspective. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 1789-1809	4.8	16
96	An Unknown Environment Exploration Strategy for Swarm Robotics Based on Brain Storm Optimization Algorithm <b>2019</b> ,		6
95	Dynamic Multimodal Optimization: A Preliminary Study <b>2019</b> ,		4
94	Brain Storm Optimization Algorithm Based on Improved Clustering Approach Using Orthogonal Experimental Design <b>2019</b> ,		4

93	Multi-center variable-scale search algorithm for combinatorial optimization problems with the multimodal property. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 84, 105726	7.5	4
92	Brain Storm Optimization for Test Task Scheduling Problem. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 35-59	0.7	1
91	A Feature Extraction Method Based on BSO Algorithm for Flight Data. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 157-188	0.7	
90	Generalized pigeon-inspired optimization algorithms. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
89	Brain Storm Optimization Algorithms: More Questions than Answers. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 3-32	0.7	3
88	Feature selection based on brain storm optimization for data classification. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 80, 761-775	7.5	49
87	On the exploration and exploitation in popular swarm-based metaheuristic algorithms. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 7665-7683	4.8	53
86	An Adaptive Online Parameter Control Algorithm for Particle Swarm Optimization Based on Reinforcement Learning <b>2019</b> ,		11
85	mBSO: A Multi-Population Brain Storm Optimization for Multimodal Dynamic Optimization Problems <b>2019</b> ,		3
84	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2347-2358	3.7	13
83	A hybrid model of fuzzy minmax and brain storm optimization for feature selection and data classification. <i>Neurocomputing</i> , <b>2019</b> , 333, 440-451	5.4	31
82	Metaheuristic research: a comprehensive survey. <i>Artificial Intelligence Review</i> , <b>2019</b> , 52, 2191-2233	9.7	240
81	Close formation flight of swarm unmanned aerial vehicles via metric-distance brain storm optimization. <i>Memetic Computing</i> , <b>2018</b> , 10, 369-381	3.4	4
80	Locating Multiple Optima via Brain Storm Optimization Algorithms. <i>IEEE Access</i> , <b>2018</b> , 6, 17039-17049	3.5	17
79	A quarter century of particle swarm optimization. <i>Complex &amp; Intelligent Systems</i> , <b>2018</b> , 4, 227-239	7.1	36
78	Distributed learning particle swarm optimizer for global optimization of multimodal problems. <i>Frontiers of Computer Science</i> , <b>2018</b> , 12, 122-134	2.2	8
77	Feature Selection via Swarm Intelligence for Determining Protein Essentiality. <i>Molecules</i> , <b>2018</b> , 23,	4.8	4
76	Unified Swarm Intelligence Algorithms. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2018</b> , 1-26	0.4	7

75	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> , <b>2018</b> , 119-153	0.4	
74	Special Section on Swarm-Based Algorithms and Applications in Computational Biology and Bioinformatics. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2018</b> , 15, 1863-1864 <sup>3</sup>		1
73	Hybrid Sampling Evolution Strategy for Solving Single Objective Bound Constrained Problems <b>2018</b> ,		23
72	Dynamic Multimodal Optimization Using Brain Storm Optimization Algorithms. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 236-245	0.3	8
71	An improved extremal optimization based on the distribution knowledge of candidate solutions. <i>Natural Computing</i> , <b>2017</b> , 16, 135-149	1.3	
70	A self-adaptive chaos and Kalman filter-based particle swarm optimization for economic dispatch problem. <i>Soft Computing</i> , <b>2017</b> , 21, 3353-3365	3.5	14
69	Solving non-convex/non-smooth economic load dispatch problems via an enhanced particle swarm optimization. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 59, 229-242	7.5	51
68	An improved Brain Storm Optimization algorithm based on graph theory <b>2017</b> ,		4
67	A comprehensive survey of brain storm optimization algorithms <b>2017</b> ,		9
66	Chaotic predator-prey brain storm optimization for continuous optimization problems <b>2017</b> ,		5
65	Normalized Ranking Based Particle Swarm Optimizer for Many Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 347-357	0.9	2
64	A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 27-38	0.9	2
63	Particle Swarm Optimization With Interswarm Interactive Learning Strategy. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2238-2251	10.2	80
62	Brain storm optimization algorithm: a review. <i>Artificial Intelligence Review</i> , <b>2016</b> , 46, 445-458	9.7	111
61	Brain Storm Optimization in Objective Space Algorithm for Multimodal Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 469-478	0.9	5
60	Brain Storm Optimization with Agglomerative Hierarchical Clustering Analysis. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 115-122	0.9	12
59	Hybrid brain storm optimisation and simulated annealing algorithm for continuous optimisation problems. <i>International Journal of Bio-Inspired Computation</i> , <b>2016</b> , 8, 109	2.9	37
58	Survey on data science with population-based algorithms. <i>Big Data Analytics</i> , <b>2016</b> , 1,	2.9	20

57	Evolutionary Computation and Big Data: Key Challenges and Future Directions. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 3-14	0.9	18
56	Convergence analysis of brain storm optimization algorithm <b>2016</b> ,		7
55	Brain storm optimization algorithm for full area coverage of wireless sensor networks <b>2016</b> ,		7
54	Advanced discussion mechanism-based brain storm optimization algorithm. <i>Soft Computing</i> , <b>2015</b> , 19, 2997-3007	3.5	29
53	Multiple strategies based orthogonal design particle swarm optimizer for numerical optimization. <i>Computers and Operations Research</i> , <b>2015</b> , 60, 91-110	4.6	36
52	Enhanced Brain Storm Optimization Algorithm for Wireless Sensor Networks Deployment. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 373-381	0.9	36
51	A decoupling receding horizon search approach to agent routing and optical sensor tasking based on brain storm optimization. <i>Optik</i> , <b>2015</b> , 126, 690-696	2.5	10
50	Biomimicry of parasitic behavior in a coevolutionary particle swarm optimization algorithm for global optimization. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 32, 224-240	7.5	23
49	Interactive Learning Environment for Bio-Inspired Optimization Algorithms for UAV Path Planning. <i>IEEE Transactions on Education</i> , <b>2015</b> , 58, 276-281	2.1	25
48	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. <i>Machine Learning</i> , <b>2015</b> , 101, 345-376	4	40
47	Random Grouping Brain Storm Optimization Algorithm with a New Dynamically Changing Step Size. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 357-364	0.9	33
46	Brain storm optimization with chaotic operation <b>2015</b> ,		16
45	Brain storm optimization algorithms with k-medians clustering algorithms <b>2015</b> ,		32
44	An Improved Brain Storm Optimization with Differential Evolution Strategy for Applications of ANNs. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-18	1.1	29
43	Artificial Bee Colony Algorithm with Time-Varying Strategy. <i>Discrete Dynamics in Nature and Society</i> , <b>2015</b> , 2015, 1-17	1.1	7
42	Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space. <i>International Journal of Swarm Intelligence Research</i> , <b>2015</b> , 6, 52-86	1.1	5
41	Brain storm optimization algorithms for optimal coverage of wireless sensor networks <b>2015</b> ,		2
40	Brain storm optimization algorithm in objective space <b>2015</b> ,		56

39	Multimodal optimization using particle swarm optimization algorithms: CEC 2015 competition on single objective multi-niche optimization <b>2015</b> ,		6
38	Population Diversity of Particle Swarm Optimizer Solving Single- and Multi-Objective Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2015</b> , 71-98	0.4	2
37	Developmental Swarm Intelligence. <i>International Journal of Swarm Intelligence Research</i> , <b>2014</b> , 5, 36-54	1.1	30
36	Sparse FIR Filter Design Using Binary Particle Swarm Optimization. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2014</b> , E97.A, 2653-2657	0.4	2
35	Population Diversity Maintenance In Brain Storm Optimization Algorithm. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , <b>2014</b> , 4, 83-97	5.1	57
34	Maintaining population diversity in brain storm optimization algorithm <b>2014</b> ,		26
33	Predator-Free Brain Storm Optimization for DC Brushless Motor. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5336-5340	2	106
32	Solution clustering analysis in brain storm optimization algorithm <b>2013</b> ,		28
31	Optimal Satellite Formation Reconfiguration Based on Closed-Loop Brain Storm Optimization. <i>IEEE Computational Intelligence Magazine</i> , <b>2013</b> , 8, 39-51	5.6	82
30	A Study of Normalized Population Diversity in Particle Swarm Optimization. <i>International Journal of Swarm Intelligence Research</i> , <b>2013</b> , 4, 1-34	1.1	29
29	Particle Swarm Optimization in Regression Analysis: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 55-63	0.9	4
28	Multi-Objective Optimization Based on Brain Storm Optimization Algorithm. <i>International Journal of Swarm Intelligence Research</i> , <b>2013</b> , 4, 1-21	1.1	44
27	Contour Gradient Optimization. <i>International Journal of Swarm Intelligence Research</i> , <b>2013</b> , 4, 1-28	1.1	5
26	Swarm Intelligence in Big Data Analytics. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 417-426	0.9	24
25	Population diversity based inertia weight adaptation in Particle Swarm Optimization <b>2012</b> ,		9
24	Population diversity based study on search information propagation in particle swarm optimization <b>2012</b> ,		21
23	Particle swarm optimization based semi-supervised learning on Chinese text categorization <b>2012</b> ,		7
22	Brain Storm Optimization Algorithm with Modified Step-Size and Individual Generation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 243-252	0.9	41

21	Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems <b>2012</b> ,		15
20	Population Diversity of Particle Swarm Optimizer Solving Single and Multi-Objective Problems. <i>International Journal of Swarm Intelligence Research</i> , <b>2012</b> , 3, 23-60	1.1	21
19	On the Performance Metrics of Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 504-512	0.9	17
18	Brain Storm Optimization Algorithm for Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 513-519	0.9	44
17	Brain Storm Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 303-309	0.9	275
16	An Optimization Algorithm Based on Brainstorming Process. <i>International Journal of Swarm Intelligence Research</i> , <b>2011</b> , 2, 35-62	1.1	165
15	Diversity control in particle swarm optimization <b>2011</b> ,		32
14	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. <i>International Journal of Swarm Intelligence Research</i> , <b>2011</b> , 2, 43-69	1.1	49
13	Normalized Population Diversity in Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 38-45	0.9	15
12	Promoting Diversity in Particle Swarm Optimization to Solve Multimodal Problems. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 228-237	0.9	15
11	An Asymptotically Optimal Cooperative Relay Scheme for Two-Way Relaying Protocol. <i>IEEE Signal Processing Letters</i> , <b>2010</b> , 17, 145-148	3.2	13
10	Monitoring of particle swarm optimization. <i>Frontiers of Computer Science</i> , <b>2009</b> , 3, 31-37		54
9	Population Diversity of Particle Swarms <b>2008</b> ,		28
8	Computational intelligence <b>2007</b> , 17-38		54
7	Implementation of evolutionary fuzzy systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>1999</b> , 7, 109-119	8.3	239
6	Parameter selection in particle swarm optimization. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 591-600	0.9	1424
5	Particle swarm optimization: developments, applications and resources		1241
4	Fuzzy adaptive particle swarm optimization		129



3 Developmental Swarm Intelligence 349-367

2 Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space 1008-1038

1 Brain storm optimization algorithm for solving knowledge spillover problems. *Neural Computing and Applications*, 1 4.8 3