Shi Cheng

List of Publications by Year
in descending order

107 papers	3,047 citations	236612 25 h-index	189595 50 g-index
113 all docs	113 docs citations	113 times ranked	2093 citing authors

#	ARTICLE	IF	CITATIONS
1	Brain storm optimization algorithm for solving knowledge spillover problems. Neural Computing and Applications, 2023, 35, 12247-12260.	3.2	9
2	Angle-Based Multi-Objective Evolutionary Algorithm Based On Pruning-Power Indicator for Game Map Generation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 341-354.	3.4	3
3	Constraint multi-objective optimal design of hybrid renewable energy system considering load characteristics. Complex & Intelligent Systems, 2022, 8, 803-817.	4.0	19
4	Alternate search pattern-based brain storm optimization. Knowledge-Based Systems, 2022, 238, 107896.	4.0	23
5	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
6	Evolutionary computation for solving search-based data analytics problems. Artificial Intelligence Review, 2021, 54, 1321-1348.	9.7	38
7	Multi-Robot Indoor Environment Map Building Based on Multi-Stage Optimization Method. Complex System Modeling and Simulation, 2021, 1, 145-161.	3.2	10
8	BSO20: efficient brain storm optimization for real-parameter numerical optimization. Complex & Intelligent Systems, 2021, 7, 2415-2436.	4.0	10
9	An adaptive niching method based on multi-strategy fusion for multimodal optimization. Memetic Computing, 2021, 13, 341-357.	2.7	10
10	Bilevel-search particle swarm optimization for computationally expensive optimization problems. Soft Computing, 2021, 25, 14357-14374.	2.1	3
11	Artificial bee colony algorithm: A component-wise analysis using diversity measurement. Journal of King Saud University - Computer and Information Sciences, 2020, 32, 794-808.	2.7	17
12	A novel many-objective evolutionary algorithm based on transfer matrix with Kriging model. Information Sciences, 2020, 509, 437-456.	4.0	33
13	Grid-based dynamic robust multi-objective brain storm optimization algorithm. Soft Computing, 2020, 24, 7395-7415.	2.1	24
14	Identification of Pathway-Specific Protein Domain by Incorporating Hyperparameter Optimization Based on 2D Convolutional Neural Network. IEEE Access, 2020, 8, 180140-180155.	2.6	7
15	BSO-AL: Brain Storm Optimization Algorithm with Adaptive Learning Strategy. , 2020, , .		9
16	Adaptive online data-driven closed-loop parameter control strategy for swarm intelligence algorithm. Information Sciences, 2020, 536, 25-52.	4.0	12
17	Contour Gradient Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 247-276.	0.4	0
18	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 217-246.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Brain Storm Optimization Algorithms: A Brief Review. Communications in Computer and Information Science, 2020, , 284-295.	0.4	0
20	Swarm Intelligence in Data Science: Applications, Opportunities andÂChallenges. Lecture Notes in Computer Science, 2020, , 3-14.	1.0	7
21	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
22	A Study of Normalized Population Diversity in Particle Swarm Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 345-381.	0.4	0
23	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
24	On the exploration and exploitation in popular swarm-based metaheuristic algorithms. Neural Computing and Applications, 2019, 31, 7665-7683.	3.2	149
25	An Adaptive Online Parameter Control Algorithm for Particle Swarm Optimization Based on Reinforcement Learning. , 2019, , .		30
26	Worker assignment with learning-forgetting effect in cellular manufacturing system using adaptive memetic differential search algorithm. Computers and Industrial Engineering, 2019, 136, 381-396.	3.4	17
27	Cost-sensitive feature selection using two-archive multi-objective artificial bee colony algorithm. Expert Systems With Applications, 2019, 137, 46-58.	4.4	158
28	Dynamic Multimodal Optimization: A Preliminary Study. , 2019, , .		5
29	A LPSO-SGD algorithm for the Optimization of Convolutional Neural Network. , 2019, , .		5
30	PDG-PIO: Predicting Disease-genes Based on Pigeon-inspired Optimization. , 2019, , .		0
31	Brain Storm Optimization Algorithm Based on Improved Clustering Approach Using Orthogonal Experimental Design. , 2019, , .		5
32	Multi-center variable-scale search algorithm for combinatorial optimization problems with the multimodal property. Applied Soft Computing Journal, 2019, 84, 105726.	4.1	8
33	A Feature Extraction Method Based on BSO Algorithm for Flight Data. Adaptation, Learning, and Optimization, 2019, , 157-188.	0.5	1
34	Generalized pigeon-inspired optimization algorithms. Science China Information Sciences, 2019, 62, 1.	2.7	8
35	Brain Storm Optimization Algorithms: More Questions than Answers. Adaptation, Learning, and Optimization, 2019, , 3-32.	0.5	4
36	Cooperative Co-evolutionary Metaheuristics for Solving Large-Scale TSP Art Project. , 2019, , .		5

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37	Metaheuristic research: a comprehensive survey. Artificial Intelligence Review, 2019, 52, 2191-2233.	9.7	480
38	Locating Multiple Optima via Brain Storm Optimization Algorithms. IEEE Access, 2018, 6, 17039-17049.	2.6	23
39	A quarter century of particle swarm optimization. Complex & Intelligent Systems, 2018, 4, 227-239.	4.0	54
40	CBSO: a memetic brain storm optimization with chaotic local search. Memetic Computing, 2018, 10, 353-367.	2.7	103
41	Simplex Search-Based Brain Storm Optimization. IEEE Access, 2018, 6, 75997-76006.	2.6	7
42	Thematic issue on "Brain Storm Optimization Algorithms" Memetic Computing, 2018, 10, 351-352.	2.7	3
43	Dynamic Multimodal Optimization Using Brain Storm Optimization Algorithms. Communications in Computer and Information Science, 2018, , 236-245.	0.4	12
44	Feature Selection via Swarm Intelligence for Determining Protein Essentiality. Molecules, 2018, 23, 1569.	1.7	6
45	Improving estimation of distribution algorithms with heavy-tailed student's t distributions. , 2018, , .		0
46	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
47	An improved extremal optimization based on the distribution knowledge of candidate solutions. Natural Computing, 2017, 16, 135-149.	1.8	0
48	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
49	Cloud Service Resource Allocation with Particle Swarm Optimization Algorithm. Communications in Computer and Information Science, 2017, , 523-532.	0.4	3
50	An improved Brain Storm Optimization algorithm based on graph theory. , 2017, , .		4
51	A comprehensive survey of brain storm optimization algorithms. , 2017, , .		18
52	A Convolutional Neural Network with Dynamic Correlation Pooling. , 2017, , .		9
53	Fixed topology Thévenin equivalent fully detailed model for nonlinear capacitances. Electronics Letters, 2017, 53, 42-44.	0.5	1
54	State space model–based trust evaluation over wireless sensor networks: an iterative particle filter approach. Journal of Engineering, 2017, 2017, 101-109.	0.6	8

#	ARTICLE	IF	CITATIONS
55	Normalized Ranking Based Particle Swarm Optimizer for Many Objective Optimization. Lecture Notes in Computer Science, 2017, , 347-357.	1.0	2
56	Cooperative two-engine multi-objective bee foraging algorithm with reinforcement learning. Knowledge-Based Systems, 2017, 133, 278-293.	4.0	32
57	A High-Dimensional Particle Swarm Optimization Based on Similarity Measurement. Lecture Notes in Computer Science, 2017, , 180-188.	1.0	1
58	A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals. Lecture Notes in Computer Science, 2017, , 27-38.	1.0	2
59	Survey on data science with population-based algorithms. Big Data Analytics, 2016, 1, .	2.2	33
60	Evolutionary Computation and Big Data: Key Challenges and Future Directions. Lecture Notes in Computer Science, 2016, , 3-14.	1.0	24
61	Double Heuristic Optimization Based on Hierarchical Partitioning for Coverage Path Planning of Robot Mowers. , 2016, , .		2
62	An opposition-based learning competitive particle swarm optimizer. , 2016, , .		20
63	Big data analytics with swarm intelligence. Industrial Management and Data Systems, 2016, 116, 646-666.	2.2	56
64	Multi-view and multi-plane data fusion for effective pedestrian detection in intelligent visual surveillance. Multidimensional Systems and Signal Processing, 2016, 27, 1007-1029.	1.7	9
65	Brain storm optimization algorithm: a review. Artificial Intelligence Review, 2016, 46, 445-458.	9.7	169
66	Particle Swarm Optimization With Interswarm Interactive Learning Strategy. IEEE Transactions on Cybernetics, 2016, 46, 2238-2251.	6.2	110
67	Brain Storm Optimization with Agglomerative Hierarchical Clustering Analysis. Lecture Notes in Computer Science, 2016, , 115-122.	1.0	14
68	Artificial Bee Colony Algorithm with Time-Varying Strategy. Discrete Dynamics in Nature and Society, 2015, 2015, 1-17.	0.5	7
69	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
70	An Adaptive Brain Storm Optimization Algorithm for Multiobjective Optimization Problems. Lecture Notes in Computer Science, 2015, , 365-372.	1.0	24
71	An improved fireworks algorithm with landscape information for balancing exploration and exploitation. , 2015, , .		4
72	Multimodal optimization using particle swarm optimization algorithms: CEC 2015 competition on single objective multi-niche optimization. , 2015, , .		6

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73	Hybrid Metaheuristic Algorithms: Past, Present, and Future. Studies in Computational Intelligence, 2015, , 71-83.	0.7	101
74	Multiple strategies based orthogonal design particle swarm optimizer for numerical optimization. Computers and Operations Research, 2015, 60, 91-110.	2.4	47
75	Enhanced Brain Storm Optimization Algorithm for Wireless Sensor Networks Deployment. Lecture Notes in Computer Science, 2015, , 373-381.	1.0	45
76	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
77	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
78	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization from a Population Diversity Perspective. Advances in Computational Intelligence and Robotics Book Series, 2015, , 99-127.	0.4	1
79	Population Diversity Maintenance In Brain Storm Optimization Algorithm. Journal of Artificial Intelligence and Soft Computing Research, 2014, 4, 83-97.	3.5	90
80	A combinatorial algorithm for the cardinality constrained portfolio optimization problem. , 2014, , .		13
81	Maintaining population diversity in brain storm optimization algorithm. , 2014, , .		31
82	A Novel Hybrid Algorithm for Mean-CVaR Portfolio Selection with Real-World Constraints. Lecture Notes in Computer Science, 2014, , 319-327.	1.0	4
83	Large-Scale Global Optimization via Swarm Intelligence. Springer Proceedings in Mathematics and Statistics, 2014, , 241-253.	0.1	3
84	Solution clustering analysis in brain storm optimization algorithm. , 2013, , .		38
85	Particle swarm optimization based nearest neighbor algorithm on Chinese text categorization. , 2013, , .		3
86	One Parameter Differential Evolution (OPDE) for Numerical Benchmark Problems. Lecture Notes in Computer Science, 2013, , 431-438.	1.0	0
87	Particle Swarm Optimization in Regression Analysis: A Case Study. Lecture Notes in Computer Science, 2013, , 55-63.	1.0	7
88	Examples initialization in Chinese text categorization. , 2013, , .		0
89	Credibilistic conditional value at risk under fuzzy environment. , 2013, , .		3
90	A Study of Normalized Population Diversity in Particle Swarm Optimization. International Journal of Swarm Intelligence Research, 2013, 4, 1-34.	0.5	34

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91	Swarm Intelligence in Big Data Analytics. Lecture Notes in Computer Science, 2013, , 417-426.	1.0	29
92	Contour Gradient Optimization. International Journal of Swarm Intelligence Research, 2013, 4, 1-28.	0.5	7
93	Experimental Study on Boundary Constraint Handling in Particle Swarm Optimization. , 2013, , 96-124.		0
94	Incremental attribute based particle swarm optimization. , 2012, , .		7
95	Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems. , 2012, , .		20
96	Population diversity based inertia weight adaptation in Particle Swarm Optimization. , 2012, , .		11
97	Population diversity based study on search information propagation in particle swarm optimization. , 2012, , .		24
98	Particle swarm optimization based semi-supervised learning on Chinese text categorization. , 2012, , .		10
99	Brain Storm Optimization Algorithm with Modified Step-Size and Individual Generation. Lecture Notes in Computer Science, 2012, , 243-252.	1.0	49
100	On the Performance Metrics of Multiobjective Optimization. Lecture Notes in Computer Science, 2012, , 504-512.	1.0	26
101	Brain Storm Optimization Algorithm for Multi-objective Optimization Problems. Lecture Notes in Computer Science, 2012, , 513-519.	1.0	58
102	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
103	Diversity control in particle swarm optimization. , 2011, , .		40
104	Experimental Study on Boundary Constraints Handling in Particle Swarm Optimization. International Journal of Swarm Intelligence Research, 2011, 2, 43-69.	0.5	58
105	Normalized Population Diversity in Particle Swarm Optimization. Lecture Notes in Computer Science, 2011, , 38-45.	1.0	17
106	Promoting Diversity in Particle Swarm Optimization to Solve Multimodal Problems. Lecture Notes in Computer Science, 2011, , 228-237.	1.0	21
107	Analytics on Fireworks Algorithm Solving Problems with Shifts in the Decision Space and Objective Space. , 0, , 1008-1038.		0