

Xingjuan Cai

List of Publications by Year in descending order

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103
papers

4,642
citations

126858

33
h-index

106281

65
g-index

105
all docs

105
docs citations

105
times ranked

2276
citing authors

#	ARTICLE	IF	CITATIONS
1	A Many-Objective Optimization Based Federal Deep Generation Model for Enhancing Data Processing Capability in IoT. IEEE Transactions on Industrial Informatics, 2023, 19, 561-569.	7.2	22
2	A Many-Objective Optimization Based Intelligent High Performance Data Processing Model for Cyber-Physical-Social Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 3825-3834.	4.1	19
3	An efficient interval many-objective evolutionary algorithm for cloud task scheduling problem under uncertainty. Information Sciences, 2022, 583, 56-72.	4.0	51
4	Artificial bee colony based on adaptive search strategy and random grouping mechanism. Expert Systems With Applications, 2022, 192, 116332.	4.4	24
5	A knee point-driven many-objective pigeon-inspired optimization algorithm. Complex & Intelligent Systems, 2022, 8, 4277-4299.	4.0	5
6	Communication-efficient federated recommendation model based on many-objective evolutionary algorithm. Expert Systems With Applications, 2022, 201, 116963.	4.4	14
7	A deep reinforcement learning based hybrid algorithm for efficient resource scheduling in edge computing environment. Information Sciences, 2022, 608, 362-374.	4.0	8
8	A many-objective optimized task allocation scheduling model in cloud computing. Applied Intelligence, 2021, 51, 3293-3310.	3.3	21
9	A hybrid many-objective optimization algorithm for coal green production problem. Concurrency Computation Practice and Experience, 2021, 33, e6040.	1.4	3
10	A Many-Objective Multistage Optimization-Based Fuzzy Decision-Making Model for Coal Production Prediction. IEEE Transactions on Fuzzy Systems, 2021, 29, 3665-3675.	6.5	24
11	Explainable recommendation based on knowledge graph and multi-objective optimization. Complex & Intelligent Systems, 2021, 7, 1241-1252.	4.0	38
12	A Many-Objective Optimization Based Intelligent Intrusion Detection Algorithm for Enhancing Security of Vehicular Networks in 6G. IEEE Transactions on Vehicular Technology, 2021, 70, 5234-5243.	3.9	51
13	Unified integration of many-objective optimization algorithm based on temporary offspring for software defects prediction. Swarm and Evolutionary Computation, 2021, 63, 100871.	4.5	18
14	Adaptive differential privacy preserving based on multi-objective optimization in deep neural networks. Concurrency Computation Practice and Experience, 2021, 33, e6367.	1.4	4
15	A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. IEEE Internet of Things Journal, 2021, 8, 9645-9653.	5.5	148
16	A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. IEEE Internet of Things Journal, 2021, 8, 12540-12549.	5.5	131
17	A Sharding Scheme-Based Many-Objective Optimization Algorithm for Enhancing Security in Blockchain-Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 7650-7658.	7.2	80
18	An improved matrix factorization based model for many-objective optimization recommendation. Information Sciences, 2021, 579, 1-14.	4.0	32

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19	Multi-objective evolutionary 3D face reconstruction based on improved encoderâ€“decoder network. Information Sciences, 2021, 581, 233-248.	4.0	13
20	Novel PIO Algorithm with Multiple Selection Strategies for Many-Objective Optimization Problems. Complex System Modeling and Simulation, 2021, 1, 291-307.	3.2	13
21	A Gaussian error correction multiâ€“objective positioning model with NSGAâ€“II. Concurrency Computation Practice and Experience, 2020, 32, e5464.	1.4	147
22	An underâ€“sampled software defect prediction method based on hybrid multiâ€“objective cuckoo search. Concurrency Computation Practice and Experience, 2020, 32, e5478.	1.4	203
23	A Hybrid Blockchain-Based Identity Authentication Scheme for Multi-WSN. IEEE Transactions on Services Computing, 2020, , 1-1.	3.2	166
24	Personalized Recommendation System Based on Collaborative Filtering for IoT Scenarios. IEEE Transactions on Services Computing, 2020, 13, 685-695.	3.2	346
25	A unified heuristic bat algorithm to optimize the LEACH protocol. Concurrency Computation Practice and Experience, 2020, 32, e5619.	1.4	15
26	Hybrid many-objective cuckoo search algorithm with Lévy and exponential distributions. Memetic Computing, 2020, 12, 251-265.	2.7	16
27	A many-objective optimization recommendation algorithm based on knowledge mining. Information Sciences, 2020, 537, 148-161.	4.0	81
28	A hybrid recommendation system with many-objective evolutionary algorithm. Expert Systems With Applications, 2020, 159, 113648.	4.4	84
29	Biobjective Emergency Logistics Scheduling Model Based on Uncertain Traffic Conditions. Mathematical Problems in Engineering, 2020, 2020, 1-15.	0.6	7
30	Structure tuning method on deep convolutional generative adversarial network with nondominated sorting genetic algorithm II. Concurrency Computation Practice and Experience, 2020, 32, e5688.	1.4	7
31	Hybrid many-objective particle swarm optimization algorithm for green coal production problem. Information Sciences, 2020, 518, 256-271.	4.0	140
32	A Many Objective-Based Feature Selection Model for Anomaly Detection in Cloud Environment. IEEE Access, 2020, 8, 60218-60231.	2.6	23
33	Improving artificial Bee colony algorithm using a new neighborhood selection mechanism. Information Sciences, 2020, 527, 227-240.	4.0	111
34	A Multi-objective Bat Algorithm for Software Defect Prediction. Communications in Computer and Information Science, 2020, , 269-283.	0.4	4
35	Adaptive Bat Algorithm Optimization Strategy for Observation Matrix. Applied Sciences (Switzerland), 2019, 9, 3008.	1.3	3
36	Demand Estimation of Water Resources based on Coupling Algorithm. , 2019, , .		1

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37	An ensemble bat algorithm for large-scale optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 3099-3113.	2.3	32
38	Improved NSGA-III with selection-and-elimination operator. <i>Swarm and Evolutionary Computation</i> , 2019, 49, 23-33.	4.5	92
39	A hybrid many-objective cuckoo search algorithm. <i>Soft Computing</i> , 2019, 23, 10681-10697.	2.1	34
40	Privacy protection based on many-objective optimization algorithm. <i>Concurrency Computation Practice and Experience</i> , 2019, 31, e5342.	1.4	23
41	A Novel Coupling Algorithm Based on Glowworm Swarm Optimization and Bacterial Foraging Algorithm for Solving Multi-Objective Optimization Problems. <i>Algorithms</i> , 2019, 12, 61.	1.2	11
42	Adaptive Makeup Transfer via Bat Algorithm. <i>Mathematics</i> , 2019, 7, 273.	1.1	9
43	A Multi-Objective DV-Hop Localization Algorithm Based on NSGA-II in Internet of Things. <i>Mathematics</i> , 2019, 7, 184.	1.1	101
44	A Novel Bat Algorithm with Multiple Strategies Coupling for Numerical Optimization. <i>Mathematics</i> , 2019, 7, 135.	1.1	90
45	A pigeon-inspired optimization algorithm for many-objective optimization problems. <i>Science China Information Sciences</i> , 2019, 62, 1.	2.7	170
46	Bat algorithm with principal component analysis. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 603-622.	2.3	74
47	Species co-evolutionary algorithm: a novel evolutionary algorithm based on the ecology and environments for optimization. <i>Neural Computing and Applications</i> , 2019, 31, 2015-2024.	3.2	15
48	Optimal LEACH protocol with modified bat algorithm for big data sensing systems in Internet of Things. <i>Journal of Parallel and Distributed Computing</i> , 2019, 132, 217-229.	2.7	177
49	Analyses of inverted generational distance for many-objective optimisation algorithms. <i>International Journal of Bio-Inspired Computation</i> , 2019, 14, 62.	0.6	20
50	Hybrid multi-objective cuckoo search with dynamical local search. <i>Memetic Computing</i> , 2018, 10, 199-208.	2.7	164
51	Bat algorithm with triangle-flipping strategy for numerical optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2018, 9, 199-215.	2.3	101
52	Adaptive two-SVM multi-objective cuckoo search algorithm for software defect prediction. <i>International Journal of Computing Science and Mathematics</i> , 2018, 9, 547.	0.2	16
53	An Enhanced Monarch Butterfly Optimization with Self-adaptive Butterfly Adjusting and Crossover Operators. <i>Lecture Notes in Computer Science</i> , 2018, , 432-444.	1.0	0
54	Randomly attracted firefly algorithm with neighborhood search and dynamic parameter adjustment mechanism. <i>Soft Computing</i> , 2017, 21, 5325-5339.	2.1	86

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55	High Performance Computing for Cyber Physical Social Systems by Using Evolutionary Multi-Objective Optimization Algorithm. IEEE Transactions on Emerging Topics in Computing, 2017, , 1-1.	3.2	123
56	Firefly algorithm with neighborhood attraction. Information Sciences, 2017, 382-383, 374-387.	4.0	253
57	A novel oriented cuckoo search algorithm to improve DV-Hop performance for cyberâ€“physical systems. Journal of Parallel and Distributed Computing, 2017, 103, 42-52.	2.7	250
58	NSGA-II with local perturbation. , 2017, , .		3
59	Sparse Reconstruction with Bat Algorithm and Orthogonal Matching Pursuit. Lecture Notes in Computer Science, 2017, , 48-56.	1.0	1
60	DV-hop localisation algorithm with DDICS. International Journal of Computing Science and Mathematics, 2016, 7, 254.	0.2	6
61	Improved bat algorithm with optimal forage strategy and random disturbance strategy. International Journal of Bio-Inspired Computation, 2016, 8, 205.	0.6	203
62	Discrete Binary Adaptive Bat Algorithm for RNA Secondary Structure Prediction. Journal of Computational and Theoretical Nanoscience, 2015, 12, 335-339.	0.4	5
63	Bat algorithm with oscillation element. International Journal of Innovative Computing and Applications, 2015, 6, 171.	0.2	5
64	Adaptive bat algorithm for coverage of wireless sensor network. International Journal of Wireless and Mobile Computing, 2015, 8, 271.	0.1	5
65	Optimal parameter settings for bat algorithm. International Journal of Bio-Inspired Computation, 2015, 7, 125.	0.6	67
66	Bat algorithm with inertia weight. , 2015, , .		3
67	Bat algorithm with Gaussian walk. International Journal of Bio-Inspired Computation, 2014, 6, 166.	0.6	55
68	Bat algorithm with Gaussian walk for directing orbits of chaotic systems. International Journal of Computing Science and Mathematics, 2014, 5, 198.	0.2	7
69	Bat Algorithm for Toy Model of Protein Folding. Journal of Computational and Theoretical Nanoscience, 2014, 11, 1569-1572.	0.4	1
70	Artificial Plant Optimization Algorithm with Double Selection Strategies for DV-Hop. Sensor Letters, 2014, 12, 1383-1387.	0.4	4
71	Adaptive Bat Algorithm for Toy Model of Protein Folding. Journal of Bionanoscience, 2014, 8, 360-363.	0.4	0
72	Artificial Plant Optimization Algorithm. , 2013, , 351-365.		12

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73	Using Social Emotional Optimization Algorithm to Solve Toy Model of Protein Folding. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1545-1549.	0.4	1
74	Hydrophobic-Polar Model Structure Prediction with Binary-Coded Artificial Plant Optimization Algorithm. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1550-1554.	0.4	3
75	Using Fitness Landscape to Improve the Performance of Particle Swarm Optimization. Journal of Computational and Theoretical Nanoscience, 2012, 9, 258-265.	0.4	14
76	Light responsive curve selection for photosynthesis operator of APOA. International Journal of Bio-Inspired Computation, 2012, 4, 373.	0.6	28
77	A new stochastic algorithm to direct orbits of chaotic systems. International Journal of Computer Applications in Technology, 2012, 43, 366.	0.3	13
78	A scheduling method in semiconductor manufacturing lines based on ant colony optimization. , 2012, , .		1
79	Wireless Sensor Network Coverage Problem with Artificial Photosynthesis and Phototropism Mechanism. Sensor Letters, 2012, 10, 1653-1658.	0.4	1
80	Group-decided particle swarm optimization. , 2011, , .		0
81	A Hybrid Vector Artificial Physics Optimization with Multi-dimensional Search Method. , 2011, , .		4
82	A new stochastic algorithm to solve Lennard-Jones clusters. , 2011, , .		4
83	Optimal coverage configuration with social emotional optimisation algorithm in wireless sensor networks. International Journal of Wireless and Mobile Computing, 2011, 5, 43.	0.1	31
84	Using social cognitive optimization algorithm to solve nonlinear equations. , 2010, , .		24
85	Using Hungry Particle Swarm Optimization to Direct Orbits of Chaotic Systems. , 2010, , .		1
86	Using stochastic dynamic step length particle swarm optimization to direct orbits of chaotic systems. , 2010, , .		1
87	A new modified PSO based on black stork foraging process. , 2009, , .		4
88	Using Small-World Model to Improve the Performance of Alignment Particle Swarm Optimization. , 2009, , .		1
89	Integral Particle Swarm Optimization with Dispersed Accelerator Information. Fundamenta Informaticae, 2009, 95, 427-447.	0.3	39
90	Stochastic velocity threshold inspired by evolutionary programming. , 2009, , .		1

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91	Stochastic Dynamic Step Length Particle Swarm Optimization. , 2009, , .		2
92	Individual predicted integral-controlled particle swarm optimisation. International Journal of Innovative Computing and Applications, 2009, 2, 115.	0.2	1
93	Predicted modified PSO with time-varying accelerator coefficients. International Journal of Bio-Inspired Computation, 2009, 1, 50.	0.6	53
94	A study on the effect of v_{\max} in particle swarm optimisation with high dimension. International Journal of Bio-Inspired Computation, 2009, 1, 210.	0.6	4
95	Individual social strategy with non-linear manner. International Journal of Modelling, Identification and Control, 2009, 8, 301.	0.2	0
96	Nearest Neighbor Interaction PSO Based on Small-World Model. Lecture Notes in Computer Science, 2009, , 633-640.	1.0	7
97	Dispersed particle swarm optimization. Information Processing Letters, 2008, 105, 231-235.	0.4	62
98	Particle swarm optimization with FUSS and RWS for high dimensional functions. Applied Mathematics and Computation, 2008, 205, 98-108.	1.4	42
99	Forecasted Particle Swarm Optimization. , 2007, , .		1
100	Self-learning Particle Swarm Optimization Based on Environmental Feedback. , 2007, , .		2
101	Self-adaptive PID-Controlled Particle Swarm Optimization. , 2006, , .		6
102	A coordinated many-objective evolutionary algorithm using random adaptive parameters. Applied Intelligence, 0, , 1.	3.3	0
103	Malware detection based on multi-objective convolution restricted Boltzmann machine model and constraint-dividing crossover strategy algorithm. Concurrency Computation Practice and Experience, 0, , .	1.4	0