Jing Liang

List of Publications by Year
in descending order

129 papers	9,808 citations	87888 38 h-index	60623 81 g-index
130 all docs	130 docs citations	130 times ranked	5615 citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive learning particle swarm optimizer for global optimization of multimodal functions. IEEE Transactions on Evolutionary Computation, 2006, 10, 281-295.	10.0	3,070
2	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 601-614.	10.0	440
3	Parameters identification of photovoltaic models using an improved JAYA optimization algorithm. Energy Conversion and Management, 2017, 150, 742-753.	9.2	398
4	A self-adaptive global best harmony search algorithm for continuous optimization problems. Applied Mathematics and Computation, 2010, 216, 830-848.	2.2	346
5	A Multiobjective Particle Swarm Optimizer Using Ring Topology for Solving Multimodal Multiobjective Problems. IEEE Transactions on Evolutionary Computation, 2018, 22, 805-817.	10.0	318
6	A performance-guided JAYA algorithm for parameters identification of photovoltaic cell and module. Applied Energy, 2019, 237, 241-257.	10.1	312
7	Multiple learning backtracking search algorithm for estimating parameters of photovoltaic models. Applied Energy, 2018, 226, 408-422.	10.1	271
8	Dynamic multi-swarm particle swarm optimizer. , 0, , .		245
9	Novel composition test functions for numerical global optimization. , 0, , .		238
10	Effective heuristics and metaheuristics to minimize total flowtime for the distributed permutation flowshop problem. Expert Systems With Applications, 2019, 124, 309-324.	7.6	196
11	A survey on multi-objective evolutionary algorithms for the solution of the environmental/economic dispatch problems. Swarm and Evolutionary Computation, 2018, 38, 1-11.	8.1	180
12	Dynamic multi-swarm particle swarm optimizer with local search for Large Scale Global Optimization. , 2008, , .		156
13	Niching particle swarm optimization with local search for multi-modal optimization. Information Sciences, 2012, 197, 131-143.	6.9	149
14	Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems. International Journal of Intelligent Systems, 2006, 21, 209-226.	5.7	148
15	Classified perturbation mutation based particle swarm optimization algorithm for parameters extraction of photovoltaic models. Energy Conversion and Management, 2020, 203, 112138.	9.2	144
16	Dynamic Multi-Swarm Particle Swarm Optimizer with Local Search. , 0, , .		140
17	Multimodal multiobjective optimization with differential evolution. Swarm and Evolutionary Computation, 2019, 44, 1028-1059.	8.1	127
18	Multimodal multi-objective optimization: A preliminary study. , 2016, , .		122

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19	Economic emission dispatch problems with stochastic wind power using summation based multi-objective evolutionary algorithm. Information Sciences, 2016, 351, 48-66.	6.9	118
20	A novel scalable test problem suite for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2019, 48, 62-71.	8.1	103
21	Parameters estimation of solar photovoltaic models via a self-adaptive ensemble-based differential evolution. Solar Energy, 2020, 207, 336-346.	6.1	102
22	A local-best harmony search algorithm with dynamic sub-harmony memories for lot-streaming flow shop scheduling problem. Expert Systems With Applications, 2011, 38, 3252-3259.	7.6	91
23	Two-hidden-layer extreme learning machine for regression and classification. Neurocomputing, 2016, 175, 826-834.	5.9	88
24	Differential evolution using improved crowding distance for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2021, 62, 100849.	8.1	86
25	Novel benchmark functions for continuous multimodal optimization with comparative results. Swarm and Evolutionary Computation, 2016, 26, 23-34.	8.1	85
26	Dynamic Multi-Swarm Particle Swarm Optimizer with a Novel Constraint-Handling Mechanism. , 0, , .		83
27	Distributed Event-Triggered Secondary Control for Economic Dispatch and Frequency Restoration Control of Droop-Controlled AC Microgrids. IEEE Transactions on Sustainable Energy, 2020, 11, 1938-1950.	8.8	81
28	A cluster based PSO with leader updating mechanism and ring-topology for multimodal multi-objective optimization. Swarm and Evolutionary Computation, 2019, 50, 100569.	8.1	80
29	A self-organized speciation based multi-objective particle swarm optimizer for multimodal multi-objective problems. Applied Soft Computing Journal, 2020, 86, 105886.	7.2	79
30	A local-best harmony search algorithm with dynamic subpopulations. Engineering Optimization, 2010, 42, 101-117.	2.6	75
31	Evolutionary multi-task optimization for parameters extraction of photovoltaic models. Energy Conversion and Management, 2020, 207, 112509.	9.2	75
32	A clustering-based differential evolution algorithm for solving multimodal multi-objective optimization problems. Swarm and Evolutionary Computation, 2021, 60, 100788.	8.1	74
33	Dynamic Selection Preference-Assisted Constrained Multiobjective Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2954-2965.	9.3	74
34	A Survey on Evolutionary Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 201-221.	10.0	62
35	Design of Yagiâ€"Uda antennas using comprehensive learning particle swarm optimisation. IET Microwaves Antennas and Propagation, 2005, 152, 340.	1.2	61
36	An Evolutionary Multitasking Optimization Framework for Constrained Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2022, 26, 263-277.	10.0	60

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37	Differential evolution based on fitness Euclidean-distance ratio for multimodal optimization. Neurocomputing, 2014, 137, 252-260.	5.9	56
38	Performance Evaluation of Multiagent Genetic Algorithm. Natural Computing, 2006, 5, 83-96.	3.0	50
39	Purpose-directed two-phase multiobjective differential evolution for constrained multiobjective optimization. Swarm and Evolutionary Computation, 2021, 60, 100799.	8.1	50
40	Multiobjective optimization of ethylene cracking furnace system using self-adaptive multiobjective teaching-learning-based optimization. Energy, 2018, 148, 469-481.	8.8	49
41	A self-organizing multimodal multi-objective pigeon-inspired optimization algorithm. Science China Information Sciences, 2019, 62, 1.	4.3	49
42	Solving the blocking flow shop scheduling problem by a dynamic multi-swarm particle swarm optimizer. International Journal of Advanced Manufacturing Technology, 2011, 55, 755-762.	3.0	48
43	A Self-organizing Multi-objective Particle Swarm Optimization Algorithm for Multimodal Multi-objective Problems. Lecture Notes in Computer Science, 2018, , 550-560.	1.3	42
44	Utilizing the Relationship Between Unconstrained and Constrained Pareto Fronts for Constrained Multiobjective Optimization. IEEE Transactions on Cybernetics, 2023, 53, 3873-3886.	9.5	41
45	Effective hybrid discrete artificial bee colony algorithms for the total flowtime minimization in the blocking flowshop problem. International Journal of Advanced Manufacturing Technology, 2013, 67, 397-414.	3.0	40
46	Design and implementation of a new smart home control system based on internet of things. , 2017, , .		39
47	Coevolutionary Comprehensive Learning Particle Swarm Optimizer. , 2010, , .		38
48	Evaluation of Comprehensive Learning Particle Swarm Optimizer. Lecture Notes in Computer Science, 2004, , 230-235.	1.3	37
49	Wavelength detection in FBG sensor network using tree search DMS-PSO. IEEE Photonics Technology Letters, 2006, 18, 1305-1307.	2.5	37
50	A dynamic surrogate-assisted evolutionary algorithm framework for expensive structural optimization. Structural and Multidisciplinary Optimization, 2020, 61, 711-729.	3.5	32
51	Network controllability-based algorithm to target personalized driver genes for discovering combinatorial drugs of individual patients. Nucleic Acids Research, 2021, 49, e37-e37.	14.5	32
52	Multimodal Multiobjective Optimization in Feature Selection. , 2019, , .		31
53	Particle swarm optimization algorithms with novel learning strategies. , 0, , .		29
54	Short-term load forecasting using multimodal evolutionary algorithm and random vector functional link network based ensemble learning. Applied Energy, 2021, 285, 116415.	10.1	28

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55	Dynamic Auxiliary Task-Based Evolutionary Multitasking for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 642-656.	10.0	28
56	Distributed coordination control strategy for multiple residential solar PV systems in distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 117, 105660.	5.5	26
57	Differential Evolution-Based Feature Selection: A Niching-Based Multiobjective Approach. IEEE Transactions on Evolutionary Computation, 2023, 27, 296-310.	10.0	26
58	Solving dynamic economic emission dispatch problem considering wind power by multi-objective differential evolution with ensemble of selection method. Natural Computing, 2019, 18, 695-703.	3.0	25
59	Multi-objective flow shop scheduling with limited buffers using hybrid self-adaptive differential evolution. Memetic Computing, 2019, 11, 407-422.	4.0	24
60	Multitasking Multi-Swarm Optimization. , 2019, , .		24
61	A grid-guided particle swarm optimizer for multimodal multi-objective problems. Applied Soft Computing Journal, 2022, 117, 108381.	7.2	22
62	A novel multiobjective optimization algorithm for sparse signal reconstruction. Signal Processing, 2020, 167, 107292.	3.7	21
63	A two-archive model based evolutionary algorithm for multimodal multi-objective optimization problems. Applied Soft Computing Journal, 2022, 119, 108606.	7.2	19
64	Dynamic Multi-Swarm Particle Swarm Optimization for Multi-objective optimization problems. , 2012, , .		18
65	A HYBRID HARMONY SEARCH ALGORITHM FOR THE NO-WAIT FLOW-SHOP SCHEDULING PROBLEMS. Asia-Pacific Journal of Operational Research, 2012, 29, 1250012.	1.3	17
66	Large-Scale Portfolio Optimization Using Multiobjective Evolutionary Algorithms and Preselection Methods. Mathematical Problems in Engineering, 2017, 2017, 1-14.	1.1	16
67	Performance Analysis on Knee Point Selection Methods for Multi-Objective Sparse Optimization Problems. , 2018, , .		15
68	Performance assessment of sample-specific network control methods for bulk and single-cell biological data analysis. PLoS Computational Biology, 2021, 17, e1008962.	3.2	15
69	A twofold infill criterion-driven heterogeneous ensemble surrogate-assisted evolutionary algorithm for computationally expensive problems. Knowledge-Based Systems, 2022, 236, 107747.	7.1	15
70	Large-scale portfolio optimization using multiobjective dynamic mutli-swarm particle swarm optimizer. , 2013, , .		14
71	Comparison of Three Different Curves Used in Path Planning Problems Based on Particle Swarm Optimizer. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	14
72	Multiobjective Differential Evolution for Feature Selection in Classification. IEEE Transactions on Cybernetics, 2023, 53, 4579-4593.	9.5	14

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73	Multi-parameters optimization for electromagnetic acoustic transducers using surrogate-assisted particle swarm optimizer. Mechanical Systems and Signal Processing, 2021, 152, 107337.	8.0	13
74	Memetic differential evolution based on fitness Euclidean-distance ratio. , 2014, , .		12
75	Distributed Economic Power Dispatch and Bus Voltage Control for Droop-Controlled DC Microgrids. Energies, 2019, 12, 1400.	3.1	12
76	Feature Extraction for Recommendation of Constrained Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2023, 27, 949-963.	10.0	12
77	A Grid-dominance based Multi-objective Algorithm for Feature Selection in Classification. , 2021, , .		10
78	Differential evolution with dynamic constraint-handling mechanism. , 2010, , .		9
79	Differential Evolution strategy based on the constraint of fitness values classification. , 2014, , .		9
80	Multi-objective Brainstorm Optimization Algorithm for Sparse Optimization. , 2018, , .		9
81	Application of Sliding Nest Window Control Chart in Data Stream Anomaly Detection. Symmetry, 2018, 10, 113.	2.2	9
82	MOPSO-Based CNN for Keyword Selection on Google Ads. IEEE Access, 2019, 7, 125387-125400.	4.2	9
83	Differential Evolution with Level-Based Learning Mechanism. Complex System Modeling and Simulation, 2022, 2, 35-58.	5.3	9
84	An aRBF surrogate-assisted neighborhood field optimizer for expensive problems. Swarm and Evolutionary Computation, 2022, 68, 100972.	8.1	8
85	The Application of a Double CUSUM Algorithm in Industrial Data Stream Anomaly Detection. Symmetry, 2018, 10, 264.	2.2	7
86	Multi-objective differential evolution algorithm based on fast sorting and a novel constraints handling technique. , 2014, , .		6
87	MMOGA for Solving Multimodal Multiobjective Optimization Problems with Local Pareto Sets. , 2020, , .		6
88	Ensemble learning based on fitness Euclidean-distance ratio differential evolution for classification. Natural Computing, 2021, 20, 77-87.	3.0	6
89	Optimization of UWB Antenna Based on Particle Swarm Optimization Algorithm. Communications in Computer and Information Science, 2018, , 86-97.	0.5	5
90	Dynamic Multimodal Optimization: A Preliminary Study. , 2019, , .		5

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91	Cooperative co-evolutionary comprehensive learning particle swarm optimizer for formulation design of explosive simulant. Memetic Computing, 2020, 12, 331-341.	4.0	5
92	Improved Crowding Distance in Multi-objective Optimization for Feature Selection in Classification. Lecture Notes in Computer Science, 2021, , 489-505.	1.3	5
93	Locating multiple roots of nonlinear equation systems via multi-strategy optimization algorithm with sequence quadratic program. Science China Information Sciences, 2022, 65, 1.	4.3	5
94	Constrained multiobjective differential evolution algorithm with infeasible-proportion control mechanism. Knowledge-Based Systems, 2022, 250, 109105.	7.1	5
95	A novel online test-sheet composition approach for web-based testing. , 2009, , .		4
96	A Dynamic Multi-swarm Particle Swarm Optimizer for blocking flow shop scheduling. , 2010, , .		4
97	Strategy Adaptative Memetic Crowding differential evolution for multimodal optimization. , 2012, , .		4
98	Feature Selection based on manifold-learning with dynamic constraint handling differential evolution. , 2014, , .		4
99	Hierarchical control of parallel voltage source inverters in AC microgrids. Journal of Engineering, 2019, 2019, 1149-1152.	1.1	4
100	Elite Multi-Group Differential Evolution. , 2012, , .		3
101	Performance evaluation of dynamic multi-swarm particle swarm optimizer with different constraint handling methods on path planning problems. , 2013, , .		3
102	Using Dynamic Multi-Swarm Particle Swarm Optimizer to Improve the Image Sparse Decomposition Based on Matching Pursuit. Lecture Notes in Computer Science, 2013, , 587-595.	1.3	3
103	Application of particle swarm optimization method to incoherent scatter radar measurement of ionosphere parameters. Journal of Geophysical Research: Space Physics, 2015, 120, 8096-8110.	2.4	3
104	A Modified Particle Swarm Optimization for Parameters Identification of Photovoltaic Models. , 2019, , .		3
105	Two-Stage Decomposition Method Based on Cooperation Coevolution for Feature Selection on High-Dimensional Classification. IEEE Access, 2019, 7, 163191-163201.	4.2	3
106	Niche-based cooperative co-evolutionary ensemble neural network for classification. Applied Soft Computing Journal, 2021, 113, 107951.	7.2	3
107	Forest Species Classification of UAV Hyperspectral Image Using Deep Learning. , 2020, , .		3
108	Prognostic Signatures and Therapeutic Value Based on the Notch Pathway in Renal Clear Cell Carcinoma. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-37.	4.0	3

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109	An improved differential evolution for constrained optimization with dynamic constraint-handling mechanism. , 2012, , .		2
110	Ensemble Learning Based on Multimodal Multiobjective Optimization. Communications in Computer and Information Science, 2020, , 299-313.	0.5	2
111	Parameter extraction of the photovoltaic model via an improved composite differential evolution. , 2020, , .		2
112	A Differential Evolution Based Self-Adaptive Multi-Task Evolutionary Algorithm. , 2021, , .		2
113	An Improved Composite Differential Evolutionary Algorithm with Self-adaptive Mutation Strategy for Identifying Photovoltaic Model Parameters. , 2021, , .		2
114	A new generalized LVQ algorithm via harmonic to minimum distance measure transition. , 0, , .		1
115	An improved harmony search algorithm with dynamic control parameters for continuous optimization problems. , 2014, , .		1
116	Solving CEC 2015 multi-modal competition problems using neighborhood based speciation differential evolution. , 2015, , .		1
117	Evolutionary Ensemble Learning Using Multimodal Multi-objective Optimization Algorithm Based on Grid for Wind Speed Forecasting. , 2021, , .		1
118	Research on the Fastest Detection Method for Weak Trends under Noise Interference. Entropy, 2021, 23, 1093.	2.2	1
119	Multivariant Optimization Algorithm with Bimodal-Gauss. Lecture Notes in Computer Science, 2017, , 920-928.	1.3	1
120	Sparse Representation Feature for Facial Expression Recognition. Proceedings in Adaptation, Learning and Optimization, 2019, , 12-21.	1.6	1
121	Multi-objective Comprehensive Learning Particle Swarm Optimization based on summation of normalized objectives and diversified selection. , 2014, , .		0
122	Routing algorithm based on SPSO. , 2017, , .		0
123	PSO-based CNN for Keyword Selection on Google Ads. , 2019, , .		0
124	Novel Local Particle Swarm Optimizer for Multi-modal Optimization. Lecture Notes in Computer Science, 2016, , 571-578.	1.3	0
125	Two-hidden-layer extreme learning machine based wrist vein recognition system. Big Data & Information Analytics, 2017, 2, 59-68.	1.3	0
126	Ensemble Learning via Multimodal Multiobjective Differential Evolution and Feature Selection. Communications in Computer and Information Science, 2020, , 439-453.	0.5	0

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127	A Knee Point Based NSGA-II Multi-objective Evolutionary Algorithm. Communications in Computer and Information Science, 2020, , 454-467.	0.5	0
128	A two-stage algorithm for solving constrained multi-objective optimization problems. , 2021, , .		0
129	A Self-adaptive Multi-task Differential Evolution Algorithm. , 2021, , .		0