Jing Liang

List of Publications by Year
in descending order

129 papers	9,808 citations	100601 38 h-index	68831 81 g-index
130 all docs	130 docs citations	130 times ranked	6296 citing authors

#	ARTICLE	IF	CITATIONS
1	Multiobjective Differential Evolution for Feature Selection in Classification. IEEE Transactions on Cybernetics, 2023, 53, 4579-4593.	6.2	14
2	A Survey on Evolutionary Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 201-221.	7.5	62
3	Utilizing the Relationship Between Unconstrained and Constrained Pareto Fronts for Constrained Multiobjective Optimization. IEEE Transactions on Cybernetics, 2023, 53, 3873-3886.	6.2	41
4	Differential Evolution-Based Feature Selection: A Niching-Based Multiobjective Approach. IEEE Transactions on Evolutionary Computation, 2023, 27, 296-310.	7.5	26
5	Dynamic Auxiliary Task-Based Evolutionary Multitasking for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 642-656.	7.5	28
6	Feature Extraction for Recommendation of Constrained Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2023, 27, 949-963.	7.5	12
7	Locating multiple roots of nonlinear equation systems via multi-strategy optimization algorithm with sequence quadratic program. Science China Information Sciences, 2022, 65, 1.	2.7	5
8	An aRBF surrogate-assisted neighborhood field optimizer for expensive problems. Swarm and Evolutionary Computation, 2022, 68, 100972.	4.5	8
9	Dynamic Selection Preference-Assisted Constrained Multiobjective Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2954-2965.	5.9	74
10	A twofold infill criterion-driven heterogeneous ensemble surrogate-assisted evolutionary algorithm for computationally expensive problems. Knowledge-Based Systems, 2022, 236, 107747.	4.0	15
11	Prognostic Signatures and Therapeutic Value Based on the Notch Pathway in Renal Clear Cell Carcinoma. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-37.	1.9	3
12	An Evolutionary Multitasking Optimization Framework for Constrained Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2022, 26, 263-277.	7.5	60
13	A grid-guided particle swarm optimizer for multimodal multi-objective problems. Applied Soft Computing Journal, 2022, 117, 108381.	4.1	22
14	A two-archive model based evolutionary algorithm for multimodal multi-objective optimization problems. Applied Soft Computing Journal, 2022, 119, 108606.	4.1	19
15	Differential Evolution with Level-Based Learning Mechanism. Complex System Modeling and Simulation, 2022, 2, 35-58.	3.2	9
16	Constrained multiobjective differential evolution algorithm with infeasible-proportion control mechanism. Knowledge-Based Systems, 2022, 250, 109105.	4.0	5
17	Ensemble learning based on fitness Euclidean-distance ratio differential evolution for classification. Natural Computing, 2021, 20, 77-87.	1.8	6
18	Multi-parameters optimization for electromagnetic acoustic transducers using surrogate-assisted particle swarm optimizer. Mechanical Systems and Signal Processing, 2021, 152, 107337.	4.4	13

#	ARTICLE	IF	CITATIONS
19	Purpose-directed two-phase multiobjective differential evolution for constrained multiobjective optimization. Swarm and Evolutionary Computation, 2021, 60, 100799.	4.5	50
20	A clustering-based differential evolution algorithm for solving multimodal multi-objective optimization problems. Swarm and Evolutionary Computation, 2021, 60, 100788.	4.5	74
21	Network controllability-based algorithm to target personalized driver genes for discovering combinatorial drugs of individual patients. Nucleic Acids Research, 2021, 49, e37-e37.	6.5	32
22	Improved Crowding Distance in Multi-objective Optimization for Feature Selection in Classification. Lecture Notes in Computer Science, 2021, , 489-505.	1.0	5
23	Short-term load forecasting using multimodal evolutionary algorithm and random vector functional link network based ensemble learning. Applied Energy, 2021, 285, 116415.	5.1	28
24	Differential evolution using improved crowding distance for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2021, 62, 100849.	4.5	86
25	Performance assessment of sample-specific network control methods for bulk and single-cell biological data analysis. PLoS Computational Biology, 2021, 17, e1008962.	1.5	15
26	Evolutionary Ensemble Learning Using Multimodal Multi-objective Optimization Algorithm Based on Grid for Wind Speed Forecasting. , 2021, , .		1
27	A Grid-dominance based Multi-objective Algorithm for Feature Selection in Classification. , 2021, , .		10
28	Research on the Fastest Detection Method for Weak Trends under Noise Interference. Entropy, 2021, 23, 1093.	1.1	1
29	Niche-based cooperative co-evolutionary ensemble neural network for classification. Applied Soft Computing Journal, 2021, 113, 107951.	4.1	3
30	A Differential Evolution Based Self-Adaptive Multi-Task Evolutionary Algorithm. , 2021, , .		2
31	A two-stage algorithm for solving constrained multi-objective optimization problems. , 2021, , .		0
32	A Self-adaptive Multi-task Differential Evolution Algorithm. , 2021, , .		0
33	An Improved Composite Differential Evolutionary Algorithm with Self-adaptive Mutation Strategy for Identifying Photovoltaic Model Parameters. , 2021, , .		2
34	A novel multiobjective optimization algorithm for sparse signal reconstruction. Signal Processing, 2020, 167, 107292.	2.1	21
35	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.	5.9	81
36	A dynamic surrogate-assisted evolutionary algorithm framework for expensive structural optimization. Structural and Multidisciplinary Optimization, 2020, 61, 711-729.	1.7	32

#	ARTICLE	IF	CITATIONS
37	Distributed coordination control strategy for multiple residential solar PV systems in distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 117, 105660.	3.3	26
38	A self-organized speciation based multi-objective particle swarm optimizer for multimodal multi-objective problems. Applied Soft Computing Journal, 2020, 86, 105886.	4.1	79
39	Classified perturbation mutation based particle swarm optimization algorithm for parameters extraction of photovoltaic models. Energy Conversion and Management, 2020, 203, 112138.	4.4	144
40	Parameters estimation of solar photovoltaic models via a self-adaptive ensemble-based differential evolution. Solar Energy, 2020, 207, 336-346.	2.9	102
41	Cooperative co-evolutionary comprehensive learning particle swarm optimizer for formulation design of explosive simulant. Memetic Computing, 2020, 12, 331-341.	2.7	5
42	MMOGA for Solving Multimodal Multiobjective Optimization Problems with Local Pareto Sets. , 2020, , .		6
43	Evolutionary multi-task optimization for parameters extraction of photovoltaic models. Energy Conversion and Management, 2020, 207, 112509.	4.4	75
44	Ensemble Learning Based on Multimodal Multiobjective Optimization. Communications in Computer and Information Science, 2020, , 299-313.	0.4	2
45	Ensemble Learning via Multimodal Multiobjective Differential Evolution and Feature Selection. Communications in Computer and Information Science, 2020, , 439-453.	0.4	0
46	A Knee Point Based NSGA-II Multi-objective Evolutionary Algorithm. Communications in Computer and Information Science, 2020, , 454-467.	0.4	0
47	Parameter extraction of the photovoltaic model via an improved composite differential evolution. , 2020, , .		2
48	Forest Species Classification of UAV Hyperspectral Image Using Deep Learning. , 2020, , .		3
49	A Modified Particle Swarm Optimization for Parameters Identification of Photovoltaic Models. , 2019, , .		3
50	Multimodal Multiobjective Optimization in Feature Selection. , 2019, , .		31
51	PSO-based CNN for Keyword Selection on Google Ads. , 2019, , .		0
52	Multi-objective flow shop scheduling with limited buffers using hybrid self-adaptive differential evolution. Memetic Computing, 2019, 11, 407-422.	2.7	24
53	Two-Stage Decomposition Method Based on Cooperation Coevolution for Feature Selection on High-Dimensional Classification. IEEE Access, 2019, 7, 163191-163201.	2.6	3
54	A performance-guided JAYA algorithm for parameters identification of photovoltaic cell and module. Applied Energy, 2019, 237, 241-257.	5.1	312

#	Article	IF	Citations
55	Multitasking Multi-Swarm Optimization. , 2019, , .		24
56	Dynamic Multimodal Optimization: A Preliminary Study. , 2019, , .		5
57	A cluster based PSO with leader updating mechanism and ring-topology for multimodal multi-objective optimization. Swarm and Evolutionary Computation, 2019, 50, 100569.	4.5	80
58	MOPSO-Based CNN for Keyword Selection on Google Ads. IEEE Access, 2019, 7, 125387-125400.	2.6	9
59	Effective heuristics and metaheuristics to minimize total flowtime for the distributed permutation flowshop problem. Expert Systems With Applications, 2019, 124, 309-324.	4.4	196
60	A self-organizing multimodal multi-objective pigeon-inspired optimization algorithm. Science China Information Sciences, 2019, 62, 1.	2.7	49
61	Hierarchical control of parallel voltage source inverters in AC microgrids. Journal of Engineering, 2019, 2019, 1149-1152.	0.6	4
62	A novel scalable test problem suite for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2019, 48, 62-71.	4.5	103
63	Distributed Economic Power Dispatch and Bus Voltage Control for Droop-Controlled DC Microgrids. Energies, 2019, 12, 1400.	1.6	12
64	Multimodal multiobjective optimization with differential evolution. Swarm and Evolutionary Computation, 2019, 44, 1028-1059.	4.5	127
65	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.	1.8	25
66	Sparse Representation Feature for Facial Expression Recognition. Proceedings in Adaptation, Learning and Optimization, 2019, , 12-21.	1.5	1
67	A Multiobjective Particle Swarm Optimizer Using Ring Topology for Solving Multimodal Multiobjective Problems. IEEE Transactions on Evolutionary Computation, 2018, 22, 805-817.	7.5	318
68	Multiobjective optimization of ethylene cracking furnace system using self-adaptive multiobjective teaching-learning-based optimization. Energy, 2018, 148, 469-481.	4.5	49
69	A survey on multi-objective evolutionary algorithms for the solution of the environmental/economic dispatch problems. Swarm and Evolutionary Computation, 2018, 38, 1-11.	4.5	180
70	Performance Analysis on Knee Point Selection Methods for Multi-Objective Sparse Optimization Problems. , 2018, , .		15
71	Multi-objective Brainstorm Optimization Algorithm for Sparse Optimization. , 2018, , .		9
72	The Application of a Double CUSUM Algorithm in Industrial Data Stream Anomaly Detection. Symmetry, 2018, 10, 264.	1.1	7

#	Article	IF	Citations
73	Optimization of UWB Antenna Based on Particle Swarm Optimization Algorithm. Communications in Computer and Information Science, 2018, , 86-97.	0.4	5
74	Application of Sliding Nest Window Control Chart in Data Stream Anomaly Detection. Symmetry, 2018, 10, 113.	1.1	9
75	Multiple learning backtracking search algorithm for estimating parameters of photovoltaic models. Applied Energy, 2018, 226, 408-422.	5.1	271
76	A Self-organizing Multi-objective Particle Swarm Optimization Algorithm for Multimodal Multi-objective Problems. Lecture Notes in Computer Science, 2018, , 550-560.	1.0	42
77	Parameters identification of photovoltaic models using an improved JAYA optimization algorithm. Energy Conversion and Management, 2017, 150, 742-753.	4.4	398
78	Routing algorithm based on SPSO. , 2017, , .		0
79	Large-Scale Portfolio Optimization Using Multiobjective Evolutionary Algorithms and Preselection Methods. Mathematical Problems in Engineering, 2017, 2017, 1-14.	0.6	16
80	Multivariant Optimization Algorithm with Bimodal-Gauss. Lecture Notes in Computer Science, 2017, , 920-928.	1.0	1
81	Design and implementation of a new smart home control system based on internet of things. , 2017, , .		39
82	Two-hidden-layer extreme learning machine based wrist vein recognition system. Big Data & Information Analytics, 2017, 2, 59-68.	1.3	0
83	Multimodal multi-objective optimization: A preliminary study. , 2016, , .		122
84	Economic emission dispatch problems with stochastic wind power using summation based multi-objective evolutionary algorithm. Information Sciences, 2016, 351, 48-66.	4.0	118
85	Two-hidden-layer extreme learning machine for regression and classification. Neurocomputing, 2016, 175, 826-834.	3.5	88
86	Novel benchmark functions for continuous multimodal optimization with comparative results. Swarm and Evolutionary Computation, 2016, 26, 23-34.	4.5	85
87	Novel Local Particle Swarm Optimizer for Multi-modal Optimization. Lecture Notes in Computer Science, 2016, , 571-578.	1.0	0
88	Application of particle swarm optimization method to incoherent scatter radar measurement of ionosphere parameters. Journal of Geophysical Research: Space Physics, 2015, 120, 8096-8110.	0.8	3
89	Solving CEC 2015 multi-modal competition problems using neighborhood based speciation differential evolution. , 2015, , .		1
90	Comparison of Three Different Curves Used in Path Planning Problems Based on Particle Swarm Optimizer. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	14

#	ARTICLE	IF	CITATIONS
91	An improved harmony search algorithm with dynamic control parameters for continuous optimization problems. , 2014, , .		1
92	Multi-objective Comprehensive Learning Particle Swarm Optimization based on summation of normalized objectives and diversified selection. , 2014, , .		0
93	Memetic differential evolution based on fitness Euclidean-distance ratio. , 2014, , .		12
94	Differential evolution based on fitness Euclidean-distance ratio for multimodal optimization. Neurocomputing, 2014, 137, 252-260.	3.5	56
95	Differential Evolution strategy based on the constraint of fitness values classification. , 2014, , .		9
96	Feature Selection based on manifold-learning with dynamic constraint handling differential evolution. , 2014, , .		4
97	Multi-objective differential evolution algorithm based on fast sorting and a novel constraints handling technique. , 2014, , .		6
98	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.	1.5	40
99	Large-scale portfolio optimization using multiobjective dynamic mutli-swarm particle swarm optimizer. , 2013, , .		14
100	Performance evaluation of dynamic multi-swarm particle swarm optimizer with different constraint handling methods on path planning problems. , 2013, , .		3
101	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.	1.0	3
102	A HYBRID HARMONY SEARCH ALGORITHM FOR THE NO-WAIT FLOW-SHOP SCHEDULING PROBLEMS. Asia-Pacific Journal of Operational Research, 2012, 29, 1250012.	0.9	17
103	An improved differential evolution for constrained optimization with dynamic constraint-handling mechanism. , 2012, , .		2
104	Elite Multi-Group Differential Evolution. , 2012, , .		3
105	Strategy Adaptative Memetic Crowding differential evolution for multimodal optimization. , 2012, , .		4
106	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 601-614.	7.5	440
107	Dynamic Multi-Swarm Particle Swarm Optimization for Multi-objective optimization problems. , 2012, , .		18
108	Niching particle swarm optimization with local search for multi-modal optimization. Information Sciences, 2012, 197, 131-143.	4.0	149

#	ARTICLE	IF	CITATIONS
109	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.	1.5	48
110	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.	4.4	91
111	A self-adaptive global best harmony search algorithm for continuous optimization problems. Applied Mathematics and Computation, 2010, 216, 830-848.	1.4	346
112	A local-best harmony search algorithm with dynamic subpopulations. Engineering Optimization, 2010, 42, 101-117.	1.5	75
113	Differential evolution with dynamic constraint-handling mechanism. , 2010, , .		9
114	Coevolutionary Comprehensive Learning Particle Swarm Optimizer. , 2010, , .		38
115	A Dynamic Multi-swarm Particle Swarm Optimizer for blocking flow shop scheduling. , 2010, , .		4
116	A novel online test-sheet composition approach for web-based testing. , 2009, , .		4
117	Dynamic multi-swarm particle swarm optimizer with local search for Large Scale Global Optimization. , 2008, , .		156
118	Wavelength detection in FBG sensor network using tree search DMS-PSO. IEEE Photonics Technology Letters, 2006, 18, 1305-1307.	1.3	37
119	Comprehensive learning particle swarm optimizer for global optimization of multimodal functions. IEEE Transactions on Evolutionary Computation, 2006, 10, 281-295.	7.5	3,070
120	Performance Evaluation of Multiagent Genetic Algorithm. Natural Computing, 2006, 5, 83-96.	1.8	50
121	Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems. International Journal of Intelligent Systems, 2006, 21, 209-226.	3.3	148
122	Design of Yagiâ€"Uda antennas using comprehensive learning particle swarm optimisation. IET Microwaves Antennas and Propagation, 2005, 152, 340.	1.2	61
123	Evaluation of Comprehensive Learning Particle Swarm Optimizer. Lecture Notes in Computer Science, 2004, , 230-235.	1.0	37
124	A new generalized LVQ algorithm via harmonic to minimum distance measure transition. , 0, , .		1
125	Particle swarm optimization algorithms with novel learning strategies. , 0, , .		29
126	Novel composition test functions for numerical global optimization. , 0, , .		238

#	Article	IF	Citations
127	Dynamic Multi-Swarm Particle Swarm Optimizer with Local Search. , 0, , .		140
128	Dynamic multi-swarm particle swarm optimizer. , 0, , .		245
129	Dynamic Multi-Swarm Particle Swarm Optimizer with a Novel Constraint-Handling Mechanism. , 0, , .		83