

Miqing Li

List of Publications by Year in descending order

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75
papers

5,576
citations

185998

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138251

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77
docs citations

77
times ranked

2690
citing authors

#	ARTICLE	IF	CITATIONS
1	A Grid-Based Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 721-736.	7.5	890
2	Shift-Based Density Estimation for Pareto-Based Algorithms in Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2014, 18, 348-365.	7.5	773
3	Stable Matching-Based Selection in Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2014, 18, 909-923.	7.5	351
4	A Vector Angle-Based Evolutionary Algorithm for Unconstrained Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 131-152.	7.5	321
5	A benchmark test suite for evolutionary many-objective optimization. Complex & Intelligent Systems, 2017, 3, 67-81.	4.0	311
6	Evolutionary Multi-Objective Workflow Scheduling in Cloud. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1344-1357.	4.0	302
7	Bi-goal evolution for many-objective optimization problems. Artificial Intelligence, 2015, 228, 45-65.	3.9	239
8	Pareto or Non-Pareto: Bi-Criterion Evolution in Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2016, 20, 645-665.	7.5	217
9	Quality Evaluation of Solution Sets in Multiobjective Optimisation. ACM Computing Surveys, 2020, 52, 1-38.	16.1	198
10	Diversity Comparison of Pareto Front Approximations in Many-Objective Optimization. IEEE Transactions on Cybernetics, 2014, 44, 2568-2584.	6.2	182
11	Evolutionary Algorithms With Segment-Based Search for Multiobjective Optimization Problems. IEEE Transactions on Cybernetics, 2014, 44, 1295-1313.	6.2	143
12	Diversity Assessment of Multi-Objective Evolutionary Algorithms: Performance Metric and Benchmark Problems [Research Frontier]. IEEE Computational Intelligence Magazine, 2019, 14, 61-74.	3.4	99
13	Achieving balance between proximity and diversity in multi-objective evolutionary algorithm. Information Sciences, 2012, 182, 220-242.	4.0	94
14	Evolutionary Multiobjective Optimization-Based Multimodal Optimization: Fitness Landscape Approximation and Peak Detection. IEEE Transactions on Evolutionary Computation, 2018, 22, 692-706.	7.5	90
15	How to Read Many-Objective Solution Sets in Parallel Coordinates [Educational Forum]. IEEE Computational Intelligence Magazine, 2017, 12, 88-100.	3.4	83
16	SIP. ACM Transactions on Software Engineering and Methodology, 2016, 25, 1-39.	4.8	81
17	What Weights Work for You? Adapting Weights for Any Pareto Front Shape in Decomposition-Based Evolutionary Multiobjective Optimisation. Evolutionary Computation, 2020, 28, 227-253.	2.3	81
18	ETEA: A Euclidean Minimum Spanning Tree-Based Evolutionary Algorithm for Multi-Objective Optimization. Evolutionary Computation, 2014, 22, 189-230.	2.3	71

#	ARTICLE	IF	CITATIONS
19	Evolutionary many-objective optimization for mixed-model disassembly line balancing with multi-robotic workstations. <i>European Journal of Operational Research</i> , 2019, 276, 160-174.	3.5	68
20	Multi-objective evolutionary simulated annealing optimisation for mixed-model multi-robotic disassembly line balancing with interval processing time. <i>International Journal of Production Research</i> , 2020, 58, 846-862.	4.9	68
21	An angle dominance criterion for evolutionary many-objective optimization. <i>Information Sciences</i> , 2020, 509, 376-399.	4.0	58
22	Configuring Software Product Lines by Combining Many-Objective Optimization and SAT Solvers. <i>ACM Transactions on Software Engineering and Methodology</i> , 2017, 26, 1-46.	4.8	55
23	Multiline Distance Minimization: A Visualized Many-Objective Test Problem Suite. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 61-78.	7.5	55
24	Decomposing the user-preference in multiobjective optimization. <i>Soft Computing</i> , 2016, 20, 4005-4021.	2.1	49
25	Spread Assessment for Evolutionary Multi-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2009, , 216-230.	1.0	47
26	A Grid-Based Inverted Generational Distance for Multi/Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 21-34.	7.5	45
27	A Comparative Study on Evolutionary Algorithms for Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2013, , 261-275.	1.0	44
28	Multi-objective optimisation for regression testing. <i>Information Sciences</i> , 2016, 334-335, 1-16.	4.0	33
29	A Performance Comparison Indicator for Pareto Front Approximations in Many-Objective Optimization. , 2015, , .		32
30	On the effects of seeding strategies. , 2018, , .		28
31	Constraint Handling in NSGA-II for Solving Optimal Testing Resource Allocation Problems. <i>IEEE Transactions on Reliability</i> , 2017, 66, 1193-1212.	3.5	26
32	A pareto-based evolutionary algorithm using decomposition and truncation for dynamic multi-objective optimization. <i>Applied Soft Computing Journal</i> , 2019, 85, 105673.	4.1	26
33	A grid-based fitness strategy for evolutionary many-objective optimization. , 2010, , .		24
34	How to Evaluate Solutions in Pareto-Based Search-Based Software Engineering: A Critical Review and Methodological Guidance. <i>IEEE Transactions on Software Engineering</i> , 2022, 48, 1771-1799.	4.3	22
35	An angle based constrained many-objective evolutionary algorithm. <i>Applied Intelligence</i> , 2017, 47, 705-720.	3.3	21
36	An Empirical Investigation of the Optimality and Monotonicity Properties of Multiobjective Archiving Methods. <i>Lecture Notes in Computer Science</i> , 2019, , 15-26.	1.0	19

#	ARTICLE	IF	CITATIONS
37	A critical review of. , 2018, , .		18
38	Standing on the shoulders of giants: Seeding search-based multi-objective optimization with prior knowledge for software service composition. Information and Software Technology, 2019, 114, 155-175.	3.0	18
39	Enhanced Constraint Handling for Reliability-Constrained Multiobjective Testing Resource Allocation. IEEE Transactions on Evolutionary Computation, 2021, 25, 537-551.	7.5	18
40	A test problem for visual investigation of high-dimensional multi-objective search. , 2014, , .		17
41	A decomposition-based multiobjective evolutionary algorithm with weights updated adaptively. Information Sciences, 2021, 572, 343-377.	4.0	17
42	Solving Many-Objective Optimization Problems by a Pareto-Based Evolutionary Algorithm With Preprocessing and a Penalty Mechanism. IEEE Transactions on Cybernetics, 2021, 51, 5585-5594.	6.2	15
43	Binary search based boundary elimination selection in many-objective evolutionary optimization. Applied Soft Computing Journal, 2017, 60, 689-705.	4.1	14
44	A multi-granularity locally optimal prototype-based approach for classification. Information Sciences, 2021, 569, 157-183.	4.0	12
45	Multi-objectivizing software configuration tuning. , 2021, , .		12
46	Many-Objective Test Suite Generation for Software Product Lines. ACM Transactions on Software Engineering and Methodology, 2020, 29, 1-46.	4.8	12
47	Evolutionary Multi-Objective Model Compression for Deep Neural Networks. IEEE Computational Intelligence Magazine, 2021, 16, 10-21.	3.4	11
48	The Weights Can Be Harmful: Pareto Search versus Weighted Search in Multi-objective Search-based Software Engineering. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-40.	4.8	11
49	Objective reduction for visualising many-objective solution sets. Information Sciences, 2020, 512, 278-294.	4.0	10
50	Adjusting Parallel Coordinates for Investigating Multi-objective Search. Lecture Notes in Computer Science, 2017, , 224-235.	1.0	10
51	Many-objective optimization meets recommendation systems: A food recommendation scenario. Neurocomputing, 2022, 503, 109-117.	3.5	10
52	A novel algorithm for non-dominated hypervolume-based multiobjective optimization. , 2009, , .		8
53	A novel aggregation-based dominance for Pareto-based evolutionary algorithms to configure software product lines. Neurocomputing, 2019, 364, 32-48.	3.5	8
54	Many-objective optimization based on information separation and neighbor punishment selection. Soft Computing, 2017, 21, 1109-1128.	2.1	7

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55	Looking For Novelty in Search-Based Software Product Line Testing. IEEE Transactions on Software Engineering, 2022, 48, 2317-2338.	4.3	7
56	Going deeper with optimal software products selection using many-objective optimization and satisfiability solvers. Empirical Software Engineering, 2020, 25, 591-626.	3.0	6
57	Evolutionary Approach to Multiparty Multiobjective Optimization Problems with Common Pareto Optimal Solutions. , 2020, , .		6
58	Improving NSGA-II Algorithm Based on Minimum Spanning Tree. Lecture Notes in Computer Science, 2008, , 170-179.	1.0	5
59	A hybrid development platform for evolutionary multi-objective optimization. , 2015, , .		5
60	A Kernel-Based Indicator for Multi/Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 602-615.	7.5	5
61	Uniformity assessment for evolutionary multi-objective optimization. , 2008, , .		4
62	Parallel peaks: A visualization method for benchmark studies of multimodal optimization. , 2017, , .		4
63	Is Our Archiving Reliable? Multiobjective Archiving Methods on "Simple" Artificial Input Sequences. ACM Transactions on Evolutionary Learning, 2021, 1, 1-19.	2.7	4
64	Domination-Based Selection and Shift-Based Density Estimation for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 993-1004.	7.5	4
65	An Efficient Method for Maintaining Diversity in Evolutionary Multi-objective Optimization. , 2008, , .		3
66	On the use of hypervolume for diversity measurement of Pareto front approximations. , 2016, , .		3
67	Multiobjective optimization of the production process for ground granulated blast furnace slags. Soft Computing, 2018, 22, 8177-8186.	2.1	3
68	An Improved NSGA-II based Algorithm for Economical Hot Rolling Batch Scheduling under Time-sensitive Electricity Prices. , 2018, , .		3
69	Angle-Based Crowding Degree Estimation for Many-Objective Optimization. Lecture Notes in Computer Science, 2020, , 574-586.	1.0	3
70	Search-based diverse sampling from real-world software product lines. , 2022, , .		3
71	An Spanning Tree based method for pruning non-dominated solutions in multi-objective optimization problems. , 2009, , .		2
72	Finding the Largest Successful Coalition under the Strict Goal Preferences of Agents. ACM Transactions on Autonomous and Adaptive Systems, 2019, 14, 1-33.	0.4	2

#	ARTICLE	IF	CITATIONS
73	An efficient multi-objective evolutionary algorithm based on Minimum Spanning Tree. , 2008, , .		1
74	A Task-Oriented Heuristic for Repairing Infeasible Solutions to Overlapping Coalition Structure Generation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 785-801.	5.9	1
75	A Comparative Study Use of OTL for Many-objective Optimization. , 2015, , .		0