Hai-Lin Liu

List of Publications by Citations

52 papers	1,194 citations	16 h-index	34 g-index
65 ext. papers	1,596 ext. citations	7 avg, IF	5.16 L-index

#	Paper	IF	Citations
52	Decomposition of a Multiobjective Optimization Problem Into a Number of Simple Multiobjective Subproblems. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 450-455	15.6	503
51	A modified brain storm optimization **2012**,		96
50	Adaptively Allocating Search Effort in Challenging Many-Objective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 433-448	15.6	85
49	Objective Extraction for Many-Objective Optimization Problems: Algorithm and Test Problems. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 755-772	15.6	44
48	The multiobjective evolutionary algorithm based on determined weight and sub-regional search **2009**,		40
47	An evolutionary algorithm with directed weights for constrained multi-objective optimization. *Applied Soft Computing Journal*, **2017**, 60, 613-622	7.5	36
46	A Multi-Objective Evolutionary Algorithm Using Min-Max Strategy And Sphere Coordinate Transformation. *Intelligent Automation and Soft Computing*, **2009**, 15, 361-384	2.6	29
45	Multiobjective Multitasking Optimization Based on Incremental Learning. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 824-838	15.6	27
44	Investigating the Properties of Indicators and an Evolutionary Many-Objective Algorithm Using Promising Regions. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 75-86	15.6	26
43	T-MOEA/D: MOEA/D with Objective Transform in Multi-objective Problems **2010**,		25
42	An Effective Knowledge Transfer Approach for Multiobjective Multitasking Optimization. *IEEE Transactions on Cybernetics*, **2021**, 51, 3238-3248	10.2	21
41	On Solving WCDMA Network Planning Using Iterative Power Control Scheme and Evolutionary Multiobjective Algorithm [Application Notes]. *IEEE Computational Intelligence Magazine*, **2014**, 9, 44-52	5.6	20
40	Evolutionary Many-Objective Algorithm Using Decomposition-Based Dominance Relationship. *IEEE Transactions on Cybernetics*, **2019**, 49, 4129-4139	10.2	19
39	Optimal WCDMA network planning by multiobjective evolutionary algorithm with problem-specific genetic operation. *Knowledge and Information Systems*, **2015**, 45, 679-703	2.4	18
38	A multi-objective artificial bee colony algorithm based on division of the searching space. *Applied Intelligence*, **2014**, 41, 987-1011	4.9	17
37	An evolutionary many-objective optimisation algorithm with adaptive region decomposition **2016**,		16
36	A novel constraint-handling technique based on dynamic weights for constrained optimization problems. *Soft Computing*, **2018**, 22, 3919-3935	3.5	15

35	A Constrained Multi-Objective Evolutionary Algorithm Based on Boundary Search and Archive. *International Journal of Pattern Recognition and Artificial Intelligence*, **2016**, 30, 1659002	1.1	13
34	Handling multi-objective optimization problems with unbalanced constraints and their effects on evolutionary algorithm performance. *Swarm and Evolutionary Computation*, **2020**, 55, 100676	9.8	11
33	A hybrid evolutionary multiobjective optimization algorithm with adaptive multi-fitness assignment. *Soft Computing*, **2015**, 19, 3249-3259	3.5	11
32	Optimizing the energy-spectrum efficiency of cellular systems by evolutionary multi-objective algorithm. *Integrated Computer-Aided Engineering*, **2019**, 26, 207-220	5.2	9
31	A constrained multiobjective evolutionary algorithm based decomposition and temporary register **2013**,		9
30	Indicator-based Evolutionary Algorithm for Solving Constrained Multi-objective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	9
29	Investigating the Effect of Imbalance Between Convergence and Diversity in Evolutionary Multiobjective Algorithms. *IEEE Transactions on Evolutionary Computation*, **2016**, 1-1	15.6	8
28	Population Decomposition-Based Greedy Approach Algorithm for the Multi-Objective Knapsack Problems. *International Journal of Pattern Recognition and Artificial Intelligence*, **2017**, 31, 1759006	1.1	8
27	Fast hypervolume approximation scheme based on a segmentation strategy. *Information Sciences*, **2020**, 509, 320-342	7.7	8
26	A Cost Value Based Evolutionary Many-Objective Optimization Algorithm with Neighbor Selection Strategy **2018**,		7
25	A Cooperative Evolutionary Framework Based on an Improved Version of Directed Weight Vectors for Constrained Multiobjective Optimization With Deceptive Constraints. *IEEE Transactions on Cybernetics*, **2021**, 51, 5546-5558	10.2	6
24	A NEW ALGORITHM FOR THE UNDERDETERMINED BLIND SOURCE SEPARATION BASED ON SPARSE COMPONENT ANALYSIS. *International Journal of Pattern Recognition and Artificial Intelligence*, **2009**, 23, 71-85	1.1	5
23	Hyperplane-Approximation-Based Method for Many-Objective Optimization Problems with Redundant Objectives. *Evolutionary Computation*, **2019**, 27, 313-344	4.3	5
22	Effect of Objective Normalization and Penalty Parameter on Penalty Boundary Intersection Decomposition-Based Evolutionary Many-Objective Optimization Algorithms. *Evolutionary Computation*, **2021**, 29, 157-186	4.3	5
21	A Resource Allocation Evolutionary Algorithm for OFDM Based on Karush-Kuhn-Tucker Conditions. *Mathematical Problems in Engineering*, **2013**, 2013, 1-8	1.1	4
20	A improved NSGA-II algorithm based on sub-regional search **2011**,		4
19	A Rough-to-Fine Evolutionary Multiobjective Optimization Algorithm. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	4
18	Explicit Control of Implicit Parallelism in Decomposition-Based Evolutionary Many-Objective Optimization Algorithms [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2019**, 14, 52-64	5.6	3

17	Mixing Matrix Recovery of Underdetermined Source Separation Based on Sparse Representation **2007**,		3
16	A constrained multi-objective evolutionary algorithm using valuable infeasible solutions. *Swarm and Evolutionary Computation*, **2022**, 68, 101020	9.8	3
15	Preference-Based Evolutionary Multi-objective Optimization **2012**,		2
14	Resource Allocation for OFDM System Based on Evolutionary Algorithm **2012**,		2
13	A novel multiobjective differential evolutionary algorithm based on subregion search **2012**,		2
12	An Intelligent Computation of Coverage and Capacity of Base Station in 3G Mobile Communications Network **2008**,		2
11	Multi-Objective Evolutionary Algorithm Based on Dynamical Crossover and Mutation **2008**,		2
10	Adaptively Allocating Constraint-Handling Techniques for Constrained Multi-objective Optimization Problems. *International Journal of Pattern Recognition and Artificial Intelligence*, **2021**, 35, 2159032	1.1	2
9	Integrating Preferred Weights with Decomposition Based Multi-objective Evolutionary Algorithm **2014**,		1
8	Solving constrained optimization problem by a specific-design multiobjective genetic algorithm		1
7	Optimization of Spectrum-Energy Efficiency in Heterogeneous Communication Network. *Lecture Notes in Computer Science*, **2017**, 821-832	0.9	1
6	A Contracting BFGS Update in Quasi-Newton Methods for Unconstrained Optimization **2019**,		1
5	Transfer Learning Based Parallel Evolutionary Algorithm Framework for Bi-Level Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	1
4	Performance investigation of I?-indicator and I?+-indicator based on Lp-norm. *Neurocomputing*, **2021**, 458, 546-558	5.4	1
3	A Multi-objective Multitask Optimization Algorithm Using Transfer Rank. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	0
2	A two-phase framework of locating the reference point for decomposition-based constrained multi-objective evolutionary algorithms. *Knowledge-Based Systems*, **2022**, 239, 107933	7.3	0
1	Objective-Domain Dual Decomposition: An Effective Approach to Optimizing Partially Differentiable Objective Functions. *IEEE Transactions on Cybernetics*, **2020**, 50, 923-934	10.2	0