

Wei-Neng Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

3,479
citations

29
h-index

58
g-index

116
ext. papers

4,557
ext. citations

7.5
avg, IF

5.71
L-index

#	Paper	IF	Citations
103	Particle Swarm Optimization With an Aging Leader and Challengers. <i>IEEE Transactions on Evolutionary Computation</i> , 2013 , 17, 241-258	15.6	428
102	A Novel Set-Based Particle Swarm Optimization Method for Discrete Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 278-300	15.6	297
101	Distributed evolutionary algorithms and their models: A survey of the state-of-the-art. <i>Applied Soft Computing Journal</i> , 2015 , 34, 286-300	7.5	235
100	An Ant Colony Optimization Approach to a Grid Workflow Scheduling Problem With Various QoS Requirements. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2009 , 39, 29-43		211
99	Differential evolution with two-level parameter adaptation. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1080-99	10.2	188
98	Adaptive Multimodal Continuous Ant Colony Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 191-205	15.6	157
97	Ant Colony Optimization for Software Project Scheduling and Staffing with an Event-Based Scheduler. <i>IEEE Transactions on Software Engineering</i> , 2013 , 39, 1-17	3.5	107
96	Differential Evolution with an Evolution Path: A DEEP Evolutionary Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1798-810	10.2	104
95	A Level-Based Learning Swarm Optimizer for Large-Scale Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 578-594	15.6	103
94	Multimodal Estimation of Distribution Algorithms. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 636-650	10.2	96
93	Optimizing RFID Network Planning by Using a Particle Swarm Optimization Algorithm With Redundant Reader Elimination. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 900-912	11.9	89
92	Bi-Velocity Discrete Particle Swarm Optimization and Its Application to Multicast Routing Problem in Communication Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 7141-7151	8.9	88
91	An Efficient Resource Allocation Scheme Using Particle Swarm Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 801-816	15.6	87
90	Segment-Based Predominant Learning Swarm Optimizer for Large-Scale Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2896-2910	10.2	83
89	KuhnMunkres Parallel Genetic Algorithm for the Set Cover Problem and Its Application to Large-Scale Wireless Sensor Networks. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 695-710	15.6	64
88	An External Archive-Guided Multiobjective Particle Swarm Optimization Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2794-2808	10.2	58
87	Cooperation coevolution with fast interdependency identification for large scale optimization. <i>Information Sciences</i> , 2017 , 381, 142-160	7.7	56

86	Optimizing Discounted Cash Flows in Project Scheduling An Ant Colony Optimization Approach. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2010 , 40, 64-77		55
85	Coordinated Charging Scheduling of Electric Vehicles: A Mixed-Variable Differential Evolution Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 5094-5109	6.1	55
84	Optimal Selection of Parameters for Nonuniform Embedding of Chaotic Time Series Using Ant Colony Optimization. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 790-802	10.2	46
83	A Dynamic Logistic Dispatching System With Set-Based Particle Swarm Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 1607-1621	7.3	42
82	Set-Based Discrete Particle Swarm Optimization Based on Decomposition for Permutation-Based Multiobjective Combinatorial Optimization Problems. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2139-2153	10.2	41
81	Distributed Differential Evolution Based on Adaptive Mergence and Split for Large-Scale Optimization. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2166-2180	10.2	41
80	Historical and Heuristic-Based Adaptive Differential Evolution. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 2623-2635	7.3	40
79	Distributed Cooperative Co-Evolution With Adaptive Computing Resource Allocation for Large Scale Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 188-202	15.6	40
78	An Evolutionary Algorithm with Double-Level Archives for Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1851-63	10.2	38
77	ACO-A*: Ant Colony Optimization Plus A* for 3-D Traveling in Environments With Dense Obstacles. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 617-631	15.6	38
76	A random-based dynamic grouping strategy for large scale multi-objective optimization 2016 ,		29
75	An Adaptive Estimation of Distribution Algorithm for Multipolicy Insurance Investment Planning. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 1-14	15.6	29
74	A Cooperative Co-Evolutionary Approach to Large-Scale Multisource Water Distribution Network Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 842-857	15.6	28
73	A set-based discrete PSO for cloud workflow scheduling with user-defined QoS constraints 2012 ,		27
72	A Distributed Swarm Optimizer With Adaptive Communication for Large-Scale Optimization. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3393-3408	10.2	27
71	Ant Colony Optimization for the Control of Pollutant Spreading on Social Networks. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4053-4065	10.2	24
70	A Maximal Clique Based Multiobjective Evolutionary Algorithm for Overlapping Community Detection. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 1-1	15.6	23
69	Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 927-942	7.3	21

68	Evolution Consistency Based Decomposition for Cooperative Coevolution. <i>IEEE Access</i> , 2018 , 6, 51084-51097	18
67	A survey on algorithm adaptation in evolutionary computation. <i>Frontiers of Electrical and Electronic Engineering</i> , 2012 , 7, 16-31	17
66	A Dual-Colony Ant Algorithm for the Receiving and Shipping Door Assignments in Cross-Docks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 2523-2539	6.1 17
65	A hybrid differential evolution algorithm for mixed-variable optimization problems. <i>Information Sciences</i> , 2018 , 466, 170-188	7.7 16
64	Adaptive control of acceleration coefficients for particle swarm optimization based on clustering analysis 2007 ,	16
63	An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 634-649	7.3 16
62	Benchmarking Stochastic Algorithms for Global Optimization Problems by Visualizing Confidence Intervals. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2924-2937	10.2 15
61	Scheduling Multi-Mode Projects under Uncertainty to Optimize Cash Flows: A Monte Carlo Ant Colony System Approach. <i>Journal of Computer Science and Technology</i> , 2012 , 27, 950-965	1.7 15
60	A novel discrete particle swarm optimization to solve traveling salesman problem 2007 ,	15
59	A Classifier-Assisted Level-Based Learning Swarm Optimizer for Expensive Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 219-233	15.6 15
58	IronM: Privacy-Preserving Reliability Estimation of Heterogeneous Data for Mobile Crowdsensing. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 5159-5170	10.7 13
57	iTAM: Bilateral Privacy-Preserving Task Assignment for Mobile Crowdsensing. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 1-1	4.6 11
56	A parallel double-level multiobjective evolutionary algorithm for robust optimization. <i>Applied Soft Computing Journal</i> , 2017 , 59, 258-275	7.5 9
55	A Divide-and-Conquer Evolutionary Algorithm for Large-Scale Virtual Network Embedding. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 1-1	15.6 9
54	A Constructive Particle Swarm Optimizer for Virtual Network Embedding. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 1406-1420	4.9 9
53	An Adaptive Stochastic Dominant Learning Swarm Optimizer for High-Dimensional Optimization. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2 9
52	Set-based discrete particle swarm optimization and its applications: a survey. <i>Frontiers of Computer Science</i> , 2018 , 12, 203-216	2.2 8
51	Workflow scheduling in grids: an ant colony optimization approach 2007 ,	8

50	Path Planning in Multiple-AUV Systems for Difficult Target Traveling Missions: A Hybrid Metaheuristic Approach. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 12, 561-574	3	8
49	Ant Colony Evacuation Planner: An Ant Colony System With Incremental Flow Assignment for Multipath Crowd Evacuation. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 5559-5572	10.2	8
48	PRICE: Privacy and Reliability-Aware Real-time Incentive System for Crowdsensing. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	8
47	A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-15	7.3	7
46	Link mapping-oriented ant colony system for virtual network embedding 2017 ,		7
45	Normalization group brain storm optimization for power electronic circuit optimization 2014 ,		7
44	A dynamic competitive swarm optimizer based-on entropy for large scale optimization 2016 ,		6
43	Multiple parents guided differential evolution for large scale optimization 2016 ,		6
42	CrowdFL: Privacy-Preserving Mobile Crowdsensing System via Federated Learning. <i>IEEE Transactions on Mobile Computing</i> , 2022 , 1-1	4.6	6
41	Evolutionary Divide-and-Conquer Algorithm for Virus Spreading Control Over Networks. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3752-3766	10.2	5
40	Fast pedestrian detection using multimodal estimation of distribution algorithms 2017 ,		5
39	Composite differential evolution with queueing selection for multimodal optimization 2015 ,		4
38	A parallel genetic algorithm with region division strategy to solve taxi-passenger matching problem 2017 ,		4
37	. <i>IEEE Transactions on Multimedia</i> , 2020 , 1-1	6.6	4
36	Real-Time TaxiPassenger Matching Using a Differential Evolutionary Fuzzy Controller. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 2712-2725	7.3	4
35	Scheduling Workflows with Composite Tasks: A Nested Particle Swarm Optimization Approach. <i>IEEE Transactions on Services Computing</i> , 2020 , 1-1	4.8	3
34	Set-based particle swarm optimization for mapping and scheduling tasks on heterogeneous embedded systems 2016 ,		3
33	An Analysis of Binary Particle Swarm Optimizers for Task Assigning Problem in Wireless Sensor Networks 2015 ,		3

32	A PSO approach for software project planning 2014 ,		3
31	An Ant Colony Optimization Approach for Nurse Rostering Problem 2013 ,		3
30	An ant colony optimization algorithm for the time-varying workflow scheduling problem in grids 2009 ,		3
29	Differential evolution with double-level archives for bi-objective cloud task scheduling 2016 ,		3
28	Handling Uncertainty in Financial Decision Making: A Clustering Estimation of Distribution Algorithm With Simplified Simulation. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 42-56	4-1	3
27	Set-Based Comprehensive Learning Particle Swarm optimization for Virtual Machine Placement Problem 2018 ,		3
26	Fast multiple human detection with neighborhood-based speciation differential evolution 2017 ,		2
25	Multi-swarm particle swarm optimization for payment scheduling 2017 ,		2
24	A generic archive technique for enhancing the niching performance of evolutionary computation 2014 ,		2
23	One-stage and Dual-heuristic Particle Swarm optimization for Virtual Network Embedding 2020 ,		2
22	Toward Predicting Active Participants in Tweet Streams: A case study on Two Civil Rights Events. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4-2	2
21	An Urban Traffic Signal Control System Based on Traffic Flow Prediction 2021 ,		2
20	Evolutionary Computation in Social Propagation over Complex Networks: A Survey. <i>International Journal of Automation and Computing</i> , 2021 , 18, 503-520	3-5	2
19	A Coevolutionary Estimation of Distribution Algorithm for Group Insurance Portfolio. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-15	7-3	2
18	A two-stage information retrieval system based on interactive multimodal genetic algorithm for query weight optimization. <i>Complex & Intelligent Systems</i> , 2021 , 7, 2765	7-1	2
17	A Histogram Estimation of Distribution Algorithm for Reversible Lanes Optimization Problems 2019 ,		1
16	A Probabilistic Niching Evolutionary Computation Framework Based on Binary Space Partitioning. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	1
15	A histogram estimation of distribution algorithm for resource scheduling 2018 ,		1

14	Two-Dimensional-Reduction Random Forest 2018 ,		1
13	Elastic Differential Evolution for Automatic Data Clustering. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4134-4147	10.2	1
12	A parallel Ant Colony System based on region decomposition for Taxi-Passenger Matching 2017 ,		1
11	Pseudo multi-population differential evolution for multimodal optimization 2014 ,		1
10	A Monte-Carlo ant colony system for scheduling multi-mode projects with uncertainties to optimize cash flows 2010 ,		1
9	An agile vehicle-based dynamic user equilibrium scheme for urban traffic signal control. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 619-634	2.4	1
8	Cross-generation Elites Guided Particle Swarm Optimization for large scale optimization 2016 ,		1
7	Automatic clustering approach based on particle swarm optimization for data with arbitrary shaped clusters 2016 ,		1
6	Distributed and Expensive Evolutionary Constrained Optimization with On-Demand Evaluation. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	1
5	Online Data-Driven Surrogate-Assisted Particle Swarm Optimization for Traffic Flow Optimization. <i>Lecture Notes in Computer Science</i> , 2020 , 47-58	0.9	0
4	Probabilistic Multimodal Optimization. <i>Natural Computing Series</i> , 2021 , 191-228	2.5	0
3	Ant Colony System for Carpool Service Problem with High Seating Capacity. <i>Communications in Computer and Information Science</i> , 2019 , 733-740	0.3	0
2	An estimation of distribution algorithm with clustering for scenario-based robust financial optimization.. <i>Complex & Intelligent Systems</i> , 2022 , 1-15	7.1	0
1	An Estimation of Distribution Algorithm for Large-Scale Optimization with Cooperative Co-evolution and Local Search. <i>Lecture Notes in Computer Science</i> , 2018 , 442-452	0.9	