Wei-Neng Chen

List of Publications by Year
in descending order

116	5,606	94269 37	82410 72
papers	citations	h-index	g-index

116	116	116	3909
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Swarm Optimization With an Aging Leader and Challengers. IEEE Transactions on Evolutionary Computation, 2013, 17, 241-258.	7.5	598
2	A Novel Set-Based Particle Swarm Optimization Method for Discrete Optimization Problems. IEEE Transactions on Evolutionary Computation, 2010, 14, 278-300.	7.5	383
3	Distributed evolutionary algorithms and their models: A survey of the state-of-the-art. Applied Soft Computing Journal, 2015, 34, 286-300.	4.1	361
4	An Ant Colony Optimization Approach to a Grid Workflow Scheduling Problem With Various QoS Requirements. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 29-43.	3.3	287
5	Differential Evolution With Two-Level Parameter Adaptation. IEEE Transactions on Cybernetics, 2014, 44, 1080-1099.	6.2	286
6	Adaptive Multimodal Continuous Ant Colony Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 191-205.	7.5	242
7	A Level-Based Learning Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 578-594.	7.5	212
8	Multimodal Estimation of Distribution Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 636-650.	6.2	153
9	Ant Colony Optimization for Software Project Scheduling and Staffing with an Event-Based Scheduler. IEEE Transactions on Software Engineering, 2013, 39, 1-17.	4.3	140
10	Differential Evolution with an Evolution Path: A DEEP Evolutionary Algorithm. IEEE Transactions on Cybernetics, 2015, 45, 1798-1810.	6.2	134
11	Coordinated Charging Scheduling of Electric Vehicles: A Mixed-Variable Differential Evolution Approach. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5094-5109.	4.7	132
12	Segment-Based Predominant Learning Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2896-2910.	6.2	131
13	An Efficient Resource Allocation Scheme Using Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 801-816.	7.5	117
14	Optimizing RFID Network Planning by Using a Particle Swarm Optimization Algorithm With Redundant Reader Elimination. IEEE Transactions on Industrial Informatics, 2012, 8, 900-912.	7.2	114
15	Bi-Velocity Discrete Particle Swarm Optimization and Its Application to Multicast Routing Problem in Communication Networks. IEEE Transactions on Industrial Electronics, 2014, 61, 7141-7151.	5.2	106
16	An External Archive-Guided Multiobjective Particle Swarm Optimization Algorithm. IEEE Transactions on Cybernetics, 2017, 47, 2794-2808.	6.2	96
17	Kuhnâ€"Munkres Parallel Genetic Algorithm for the Set Cover Problem and Its Application to Large-Scale Wireless Sensor Networks. IEEE Transactions on Evolutionary Computation, 2016, 20, 695-710.	7.5	84
18	Cooperation coevolution with fast interdependency identification for large scale optimization. Information Sciences, 2017, 381, 142-160.	4.0	84

#	Article	IF	Citations
19	ACO-A*: Ant Colony Optimization Plus A* for 3-D Traveling in Environments With Dense Obstacles. IEEE Transactions on Evolutionary Computation, 2019, 23, 617-631.	7.5	81
20	Distributed Cooperative Co-Evolution With Adaptive Computing Resource Allocation for Large Scale Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 188-202.	7.5	75
21	Optimizing Discounted Cash Flows in Project Scheduling—An Ant Colony Optimization Approach. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 64-77.	3.3	72
22	A Distributed Swarm Optimizer With Adaptive Communication for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2020, 50, 3393-3408.	6.2	72
23	Distributed Differential Evolution Based on Adaptive Mergence and Split for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2018, 48, 2166-2180.	6.2	68
24	Ant Colony Optimization for the Control of Pollutant Spreading on Social Networks. IEEE Transactions on Cybernetics, 2020, 50, 4053-4065.	6.2	68
25	A Classifier-Assisted Level-Based Learning Swarm Optimizer for Expensive Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 219-233.	7.5	67
26	Historical and Heuristic-Based Adaptive Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2623-2635.	5.9	66
27	A Dynamic Logistic Dispatching System With Set-Based Particle Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1607-1621.	5.9	62
28	Optimal Selection of Parameters for Nonuniform Embedding of Chaotic Time Series Using Ant Colony Optimization. IEEE Transactions on Cybernetics, 2013, 43, 790-802.	6.2	60
29	Set-Based Discrete Particle Swarm Optimization Based on Decomposition for Permutation-Based Multiobjective Combinatorial Optimization Problems. IEEE Transactions on Cybernetics, 2018, 48, 2139-2153.	6.2	59
30	Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 927-942.	5.9	56
31	An Evolutionary Algorithm with Double-Level Archives for Multiobjective Optimization. IEEE Transactions on Cybernetics, 2015, 45, 1851-1863.	6.2	52
32	A random-based dynamic grouping strategy for large scale multi-objective optimization. , 2016, , .		52
33	A Cooperative Co-Evolutionary Approach to Large-Scale Multisource Water Distribution Network Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 842-857.	7.5	52
34	A Maximal Clique Based Multiobjective Evolutionary Algorithm for Overlapping Community Detection. IEEE Transactions on Evolutionary Computation, 2016, , 1-1.	7.5	48
35	An Adaptive Stochastic Dominant Learning Swarm Optimizer for High-Dimensional Optimization. IEEE Transactions on Cybernetics, 2022, 52, 1960-1976.	6.2	46
36	An Adaptive Estimation of Distribution Algorithm for Multipolicy Insurance Investment Planning. IEEE Transactions on Evolutionary Computation, 2019, 23, 1-14.	7.5	41

#	ARTICLE	IF	CITATIONS
37	An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 634-649.	5.9	40
38	A set-based discrete PSO for cloud workflow scheduling with user-defined QoS constraints. , 2012, , .		39
39	Path Planning in Multiple-AUV Systems for Difficult Target Traveling Missions: A Hybrid Metaheuristic Approach. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 561-574.	2.6	39
40	iTAM: Bilateral Privacy-Preserving Task Assignment for Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2021, 20, 3351-3366.	3.9	38
41	A novel discrete particle swarm optimization to solve traveling salesman problem. , 2007, , .		37
42	A hybrid differential evolution algorithm for mixed-variable optimization problems. Information Sciences, 2018, 466, 170-188.	4.0	30
43	Evolution Consistency Based Decomposition for Cooperative Coevolution. IEEE Access, 2018, 6, 51084-51097.	2.6	25
44	IronM: Privacy-Preserving Reliability Estimation of Heterogeneous Data for Mobile Crowdsensing. IEEE Internet of Things Journal, 2020, 7, 5159-5170.	5.5	25
45	A survey on algorithm adaptation in evolutionary computation. Frontiers of Electrical and Electronic Engineering, 2012, 7, 16-31.	0.4	24
46	A Dual-Colony Ant Algorithm for the Receiving and Shipping Door Assignments in Cross-Docks. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2523-2539.	4.7	24
47	PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. IEEE Internet of Things Journal, 2021, 8, 17584-17595.	5.5	24
48	Adaptive control of acceleration coefficients for particle swarm optimization based on clustering analysis. , 2007, , .		23
49	CrowdFL: Privacy-Preserving Mobile Crowdsensing System Via Federated Learning. IEEE Transactions on Mobile Computing, 2023, 22, 4607-4619.	3.9	23
50	Benchmarking Stochastic Algorithms for Global Optimization Problems by Visualizing Confidence Intervals. IEEE Transactions on Cybernetics, 2017, 47, 2924-2937.	6.2	21
51	Ant Colony Evacuation Planner: An Ant Colony System With Incremental Flow Assignment for Multipath Crowd Evacuation. IEEE Transactions on Cybernetics, 2021, 51, 5559-5572.	6.2	21
52	A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5090-5104.	5.9	20
53	Scheduling Workflows With Composite Tasks: A Nested Particle Swarm Optimization Approach. IEEE Transactions on Services Computing, 2022, 15, 1074-1088.	3.2	19
54	Scheduling Multi-Mode Projects under Uncertainty to Optimize Cash Flows: A Monte Carlo Ant Colony System Approach. Journal of Computer Science and Technology, 2012, 27, 950-965.	0.9	18

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55	Evolutionary Divide-and-Conquer Algorithm for Virus Spreading Control Over Networks. IEEE Transactions on Cybernetics, 2021, 51, 3752-3766.	6.2	18
56	Set-based discrete particle swarm optimization and its applications: a survey. Frontiers of Computer Science, 2018, 12, 203-216.	1.6	17
57	Distributed and Expensive Evolutionary Constrained Optimization With On-Demand Evaluation. IEEE Transactions on Evolutionary Computation, 2023, 27, 671-685.	7.5	17
58	Workflow scheduling in grids: an ant colony optimization approach. , 2007, , .		16
59	A Constructive Particle Swarm Optimizer for Virtual Network Embedding. IEEE Transactions on Network Science and Engineering, 2020, 7, 1406-1420.	4.1	16
60	A Divide-and-conquer Evolutionary Algorithm for Large-scale Virtual Network Embedding. IEEE Transactions on Evolutionary Computation, 2019, , 1-1.	7.5	15
61	An Urban Traffic Signal Control System Based on Traffic Flow Prediction. , 2021, , .		15
62	On Reliable Multi-View Affinity Learning for Subspace Clustering. IEEE Transactions on Multimedia, 2021, 23, 4555-4566.	5.2	14
63	Link mapping-oriented ant colony system for virtual network embedding. , 2017, , .		12
64	Elastic Differential Evolution for Automatic Data Clustering. IEEE Transactions on Cybernetics, 2021, 51, 4134-4147.	6.2	12
65	A dynamic competitive swarm optimizer based-on entropy for large scale optimization. , 2016, , .		11
66	A Probabilistic Niching Evolutionary Computation Framework Based on Binary Space Partitioning. IEEE Transactions on Cybernetics, 2022, 52, 51-64.	6.2	11
67	Fast pedestrian detection using multimodal estimation of distribution algorithms. , 2017, , .		10
68	A Preference Biobjective Evolutionary Algorithm for the Payment Scheduling Negotiation Problem. IEEE Transactions on Cybernetics, 2021, 51, 6105-6118.	6.2	10
69	Handling Uncertainty in Financial Decision Making: A Clustering Estimation of Distribution Algorithm With Simplified Simulation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 42-56.	3.4	10
70	Multiple parents guided differential evolution for large scale optimization. , 2016, , .		9
71	A parallel double-level multiobjective evolutionary algorithm for robust optimization. Applied Soft Computing Journal, 2017, 59, 258-275.	4.1	9
72	Real-Time Taxiâ€"Passenger Matching Using a Differential Evolutionary Fuzzy Controller. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2712-2725.	5.9	9

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73	An Ant Colony Optimization Approach for Nurse Rostering Problem. , 2013, , .		8
74	Normalization group brain storm optimization for power electronic circuit optimization. , 2014, , .		7
75	Composite differential evolution with queueing selection for multimodal optimization. , 2015, , .		6
76	One-stage and Dual-heuristic Particle Swarm optimization for Virtual Network Embedding. , 2020, , .		6
77	A Coevolutionary Estimation of Distribution Algorithm for Group Insurance Portfolio. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, , 1-15.	5.9	6
78	A two-stage information retrieval system based on interactive multimodal genetic algorithm for query weight optimization. Complex & Intelligent Systems, 2021, 7, 2765-2781.	4.0	6
79	A generic archive technique for enhancing the niching performance of evolutionary computation. , 2014, , .		5
80	Fast multiple human detection with neighborhood-based speciation differential evolution. , 2017, , .		5
81	A parallel genetic algorithm with region division strategy to solve taxi-passenger matching problem. , 2017, , .		5
82	An agile vehicle€based dynamic user equilibrium scheme for urban traffic signal control. IET Intelligent Transport Systems, 2021, 15, 619-634.	1.7	5
83	Set-based particle swarm optimization for mapping and scheduling tasks on heterogeneous embedded systems. , 2016, , .		4
84	Set-Based Comprehensive Learning Particle Swarm optimization for Virtual Machine Placement Problem. , 2018, , .		4
85	Toward Predicting Active Participants in Tweet Streams: A case study on Two Civil Rights Events. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	4
86	An ant colony optimization algorithm for the time-varying workflow scheduling problem in grids. , 2009, , .		3
87	A PSO approach for software project planning. , 2014, , .		3
88	An Analysis of Binary Particle Swarm Optimizers for Task Assigning Problem in Wireless Sensor Networks. , 2015, , .		3
89	Differential evolution with double-level archives for bi-objective cloud task scheduling. , 2016, , .		3
90	Multi-swarm particle swarm optimization for payment scheduling. , 2017, , .		3

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91	A parallel Ant Colony System based on region decomposition for Taxi-Passenger Matching. , 2017, , .		3
92	Multiobjective Evolutionary Algorithm with Double-level Archives for Nutritional Dietary Decision Problem. , 2019, , .		3
93	Evolutionary Computation in Social Propagation over Complex Networks: A Survey. International Journal of Automation and Computing, 2021, 18, 503-520.	4.5	3
94	Discrete Resource Allocation in Epidemic Control with Heuristic Majority-Voting Particle Swarm Optimization. , 2020, , .		3
95	An estimation of distribution algorithm with clustering for scenario-based robust financial optimization. Complex & Intelligent Systems, 2022, 8, 3989-4003.	4.0	3
96	A Monte-Carlo ant colony system for scheduling multi-mode projects with uncertainties to optimize cash flows. , 2010, , .		2
97	Pseudo multi-population differential evolution for multimodal optimization. , 2014, , .		2
98	A multi-optimizer cooperative coevolution method for large scale optimization. , 2016, , .		2
99	Cross-generation Elites Guided Particle Swarm Optimization for large scale optimization. , 2016, , .		2
100	Automatic clustering approach based on particle swarm optimization for data with arbitrary shaped clusters. , 2016, , .		2
101	A Histogram Estimation of Distribution Algorithm for Reversible Lanes Optimization Problems. , 2019, , .		2
102	An Empirical Study on Evolutionary Algorithms for Traveling Salesman Problem. , 2019, , .		2
103	Probabilistic Multimodal Optimization. Natural Computing Series, 2021, , 191-228.	2.2	2
104	Ant Colony System for Carpool Service Problem with High Seating Capacity. Communications in Computer and Information Science, 2019, , 733-740.	0.4	2
105	A Gaussian Process Assisted Offline Estimation of Multivariate Gaussian Distribution Algorithm. , 2020, , .		2
106	Heterogeneous Multiobjective Differential Evolution for Electric Vehicle Charging Scheduling. , 2021, , .		2
107	A histogram estimation of distribution algorithm for resource scheduling. , 2018, , .		1
108	Two-Dimensional-Reduction Random Forest. , 2018, , .		1

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109	An Estimation of Distribution Algorithm for Large-Scale Optimization with Cooperative Co-evolution and Local Search. Lecture Notes in Computer Science, 2018, , 442-452.	1.0	1
110	Online Data-Driven Surrogate-Assisted Particle Swarm Optimization for Traffic Flow Optimization. Lecture Notes in Computer Science, 2020, , 47-58.	1.0	1
111	An Ant Colony Optimization Approach to Connection-Aware Virtual Machine Placement for Scientific Workflows. , 2020, , .		1
112	Enhancing the performance of evolutionary algorithms: A novel maturity-based adaptation strategy. , 2012, , .		0
113	An empirical study of cooperative frequency in distributed cooperative co-evolution. , 2021, , .		0
114	Multi-objective ant colony optimization for task allocation in vehicle-based crowdsourcing. , 2020, , .		0
115	Incorporating Fuzzy Cognitive Inference for Vaccine Hesitancy Measuring. Sustainability, 2022, 14, 8434.	1.6	0
116	A classification-assisted level-based learning evolutionary algorithm for expensive multiobjective optimization problems. , 2022, , .		0