

Yong Wang

List of Publications by Year in descending order

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75
papers

7,186
citations

76196

40
h-index

95083

68
g-index

75
all docs

75
docs citations

75
times ranked

3832
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Evolution With Composite Trial Vector Generation Strategies and Control Parameters. IEEE Transactions on Evolutionary Computation, 2011, 15, 55-66.	7.5	1,377
2	Hybridizing particle swarm optimization with differential evolution for constrained numerical and engineering optimization. Applied Soft Computing Journal, 2010, 10, 629-640.	4.1	585
3	Combining Multiobjective Optimization With Differential Evolution to Solve Constrained Optimization Problems. IEEE Transactions on Evolutionary Computation, 2012, 16, 117-134.	7.5	355
4	A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization. IEEE Transactions on Evolutionary Computation, 2006, 10, 658-675.	7.5	321
5	Differential evolution based on covariance matrix learning and bimodal distribution parameter setting. Applied Soft Computing Journal, 2014, 18, 232-247.	4.1	275
6	An Adaptive Tradeoff Model for Constrained Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2008, 12, 80-92.	7.5	272
7	Handling Constrained Multiobjective Optimization Problems With Constraints in Both the Decision and Objective Spaces. IEEE Transactions on Evolutionary Computation, 2019, 23, 870-884.	7.5	224
8	Enhancing the search ability of differential evolution through orthogonal crossover. Information Sciences, 2012, 185, 153-177.	4.0	222
9	Multiobjective Optimization and Hybrid Evolutionary Algorithm to Solve Constrained Optimization Problems. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 560-575.	5.5	216
10	Constrained optimization based on hybrid evolutionary algorithm and adaptive constraint-handling technique. Structural and Multidisciplinary Optimization, 2009, 37, 395-413.	1.7	206
11	Evolutionary Constrained Multiobjective Optimization: Test Suite Construction and Performance Comparisons. IEEE Transactions on Evolutionary Computation, 2019, 23, 972-986.	7.5	175
12	Joint Deployment and Task Scheduling Optimization for Large-Scale Mobile Users in Multi-UAV-Enabled Mobile Edge Computing. IEEE Transactions on Cybernetics, 2020, 50, 3984-3997.	6.2	174
13	MOMMOP: Multiobjective Optimization for Locating Multiple Optimal Solutions of Multimodal Optimization Problems. IEEE Transactions on Cybernetics, 2015, 45, 830-843.	6.2	157
14	Incorporating Objective Function Information Into the Feasibility Rule for Constrained Evolutionary Optimization. IEEE Transactions on Cybernetics, 2016, 46, 2938-2952.	6.2	153
15	Multiobjective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows: Formulation, Instances, and Algorithms. IEEE Transactions on Cybernetics, 2016, 46, 582-594.	6.2	149
16	An improved $(\hat{1}/4+\hat{1}/\hat{b})$ -constrained differential evolution for constrained optimization. Information Sciences, 2013, 222, 302-322.	4.0	114
17	Composite Differential Evolution for Constrained Evolutionary Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1482-1495.	5.9	111
18	Differential Evolution With a New Encoding Mechanism for Optimizing Wind Farm Layout. IEEE Transactions on Industrial Informatics, 2018, 14, 1040-1054.	7.2	108

#	ARTICLE	IF	CITATIONS
19	Global and Local Surrogate-Assisted Differential Evolution for Expensive Constrained Optimization Problems With Inequality Constraints. IEEE Transactions on Cybernetics, 2019, 49, 1642-1656.	6.2	104
20	AnD: A many-objective evolutionary algorithm with angle-based selection and shift-based density estimation. Information Sciences, 2020, 509, 400-419.	4.0	101
21	Bidirectional Mapping Generative Adversarial Networks for Brain MR to PET Synthesis. IEEE Transactions on Medical Imaging, 2022, 41, 145-157.	5.4	88
22	Utilizing cumulative population distribution information in differential evolution. Applied Soft Computing Journal, 2016, 48, 329-346.	4.1	81
23	Locating Multiple Optimal Solutions of Nonlinear Equation Systems Based on Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 414-431.	7.5	78
24	Constrained Evolutionary Optimization by Means of $(\hat{f}_{1/4} + \hat{f}_{1/2})$ -Differential Evolution and Improved Adaptive Trade-Off Model. Evolutionary Computation, 2011, 19, 249-285.	2.3	77
25	Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1499-1513.	5.9	74
26	A Bilevel Optimization Approach for Joint Offloading Decision and Resource Allocation in Cooperative Mobile Edge Computing. IEEE Transactions on Cybernetics, 2020, 50, 4228-4241.	6.2	74
27	A Dynamic Hybrid Framework for Constrained Evolutionary Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 203-217.	5.5	72
28	Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 574-587.	5.9	69
29	Scalarizing Functions in Decomposition-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2018, 22, 296-313.	7.5	67
30	A hybrid multi-swarm particle swarm optimization to solve constrained optimization problems. Frontiers of Computer Science, 2009, 3, 38-52.	0.6	66
31	Utilizing the Correlation Between Constraints and Objective Function for Constrained Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2020, 24, 29-43.	7.5	61
32	Differential Evolution With a Variable Population Size for Deployment Optimization in a UAV-Assisted IoT Data Collection System. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 324-335.	3.4	59
33	A Review on Computational Intelligence Techniques in Cloud and Edge Computing. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 742-763.	3.4	57
34	A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5005-5016.	5.9	56
35	A Weighted Biobjective Transformation Technique for Locating Multiple Optimal Solutions of Nonlinear Equation Systems. IEEE Transactions on Evolutionary Computation, 2017, 21, 697-713.	7.5	55
36	A Two-Phase Differential Evolution for Uniform Designs in Constrained Experimental Domains. IEEE Transactions on Evolutionary Computation, 2017, 21, 665-680.	7.5	53

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37	Accelerating adaptive trade-off model using shrinking space technique for constrained evolutionary optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 77, 1501-1534.	1.5	52
38	Indicator-Based Constrained Multiobjective Evolutionary Algorithms. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 5414-5426.	5.9	52
39	Community Detection in Social and Biological Networks Using Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2012, , 71-85.	1.0	43
40	An orthogonal design based constrained evolutionary optimization algorithm. <i>Engineering Optimization</i> , 2007, 39, 715-736.	1.5	41
41	A regularity model-based multiobjective estimation of distribution algorithm with reducing redundant cluster operator. <i>Applied Soft Computing Journal</i> , 2012, 12, 3526-3538.	4.1	38
42	An Adaptive Framework to Tune the Coordinate Systems in Nature-Inspired Optimization Algorithms. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1403-1416.	6.2	38
43	A comparative study of constraint-handling techniques in evolutionary constrained multiobjective optimization. , 2016, , .		37
44	Constrained Optimization Evolutionary Algorithms. <i>Ruan Jian Xue Bao/Journal of Software</i> , 2009, 20, 11-29.	0.3	35
45	Shift-Based Penalty for Evolutionary Constrained Multiobjective Optimization and its Application. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 18-30.	6.2	32
46	Matsuoka's CPG With Desired Rhythmic Signals for Adaptive Walking of Humanoid Robots. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 613-626.	6.2	31
47	Dimensionality reduction in evolutionary algorithms-based feature selection for motor imagery brain-computer interface. <i>Swarm and Evolutionary Computation</i> , 2020, 52, 100597.	4.5	25
48	Hybrid Self-Adaptive Orthogonal Genetic Algorithm for Solving Global Optimization Problems. <i>Ruan Jian Xue Bao/Journal of Software</i> , 2010, 21, 1296-1307.	0.3	25
49	On the selection of solutions for mutation in differential evolution. <i>Frontiers of Computer Science</i> , 2018, 12, 297-315.	1.6	24
50	A Framework for Scalable Bilevel Optimization: Identifying and Utilizing the Interactions Between Upper-Level and Lower-Level Variables. <i>IEEE Transactions on Evolutionary Computation</i> , 2020, 24, 1150-1163.	7.5	21
51	Energy-efficient trajectory planning for a multi-UAV-assisted mobile edge computing system. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1713-1725.	1.5	21
52	Incorporating PLS model information into particle swarm optimization for descriptor selection in QSAR/QSPR. <i>Journal of Chemometrics</i> , 2015, 29, 627-636.	0.7	20
53	Evolutionary dynamic constrained optimization: Test suite construction and algorithm comparisons. <i>Swarm and Evolutionary Computation</i> , 2019, 50, 100559.	4.5	19
54	A new differential evolution algorithm for joint mining decision and resource allocation in a MEC-enabled wireless blockchain network. <i>Computers and Industrial Engineering</i> , 2021, 155, 107186.	3.4	18

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55	Deep metric attention learning for skin lesion classification in dermoscopy images. <i>Complex & Intelligent Systems</i> , 2022, 8, 1487-1504.	4.0	16
56	Stability analysis for impulsive fractional hybrid systems via variational Lyapunov method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 45, 140-157.	1.7	15
57	Collaboration and Resource Sharing in the Multidepot Multiperiod Vehicle Routing Problem with Pickups and Deliveries. <i>Sustainability</i> , 2020, 12, 5966.	1.6	12
58	A Biobjective Perspective for Mixed-Integer Programming. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 2374-2385.	5.9	12
59	Performance Analysis of the (1+1) Evolutionary Algorithm for the Multiprocessor Scheduling Problem. <i>Algorithmica</i> , 2015, 73, 21-41.	1.0	11
60	ECoFFeS: A Software Using Evolutionary Computation for Feature Selection in Drug Discovery. <i>IEEE Access</i> , 2018, 6, 20950-20963.	2.6	11
61	Simple-Encoded evolving convolutional neural network and its application to skin disease image classification. <i>Swarm and Evolutionary Computation</i> , 2021, 67, 100955.	4.5	10
62	Multisurrogate-Assisted Ant Colony Optimization for Expensive Optimization Problems With Continuous and Categorical Variables. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 11348-11361.	6.2	9
63	Surrogate-Assisted Differential Evolution With Region Division for Expensive Optimization Problems With Discontinuous Responses. <i>IEEE Transactions on Evolutionary Computation</i> , 2022, 26, 780-792.	7.5	8
64	Evolutionary Sensor Placement for Spatiotemporal Modeling of Battery Thermal Process. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 2223-2232.	7.2	6
65	A good nodes set evolution strategy for constrained optimization. , 2007, , .		4
66	CaR: A Cutting and Repulsion-Based Evolutionary Framework for Mixed-Integer Programming Problems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 13129-13141.	6.2	3
67	A Divide-and-Conquer Bilevel Optimization Algorithm for Jointly Pricing Computing Resources and Energy in Wireless Powered MEC. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 12099-12111.	6.2	3
68	A new constrained optimization evolutionary algorithm by using good point set. , 2007, , .		2
69	Hybrid differential evolution and adaptive trade-off model to solve constrained optimization problems. , 2010, , .		2
70	Random Walk Mutation-based DE with EDA for Nonlinear Equations Systems. , 2019, , .		1
71	A Robust Image-Sequence-Based Framework for Visual Place Recognition in Changing Environments. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 152-163.	6.2	1
72	A Novel Teacher-Assistance-Based Method to Detect and Handle Bad Training Demonstrations in Learning From Demonstration. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 948-956.	2.6	1

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73	Combining Lyapunov Optimization With Evolutionary Transfer Optimization for Long-Term Energy Minimization in IRS-Aided Communications. IEEE Transactions on Cybernetics, 2023, 53, 2647-2657.	6.2	1
74	Analysis of Solution Quality of a Multiobjective Optimization-Based Evolutionary Algorithm for Knapsack Problem. Lecture Notes in Computer Science, 2015, , 74-85.	1.0	0
75	Semantic Correlation Attention-Based Multiorder Multiscale Feature Fusion Network for Human Motion Prediction. IEEE Transactions on Cybernetics, 2024, 54, 825-838.	6.2	0