

# Yong Wang

## List of Publications by Year in Descending Order

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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.

69  
papers

4,815  
citations

31  
h-index

69  
g-index

75  
ext. papers

5,959  
ext. citations

7.7  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
69	Deep metric attention learning for skin lesion classification in dermoscopy images. <i>Complex &amp; Intelligent Systems</i> , <b>2022</b> , 8, 1487	7.1	1
68	Surrogate-Assisted Differential Evolution with Region Division for Expensive Optimization Problems with Discontinuous Responses. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	15.6	1
67	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> , <b>2021</b> , 155, 107186	6.4	6
66	Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 574-587	7.3	30
65	Evolutionary Sensor Placement for Spatiotemporal Modeling of Battery Thermal Process. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	1
64	Multisurrogate-Assisted Ant Colony Optimization for Expensive Optimization Problems With Continuous and Categorical Variables. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
63	Shift-Based Penalty for Evolutionary Constrained Multiobjective Optimization and Its Application. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	5
62	A Biobjective Perspective for Mixed-Integer Programming. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-12	7.3	0
61	Bidirectional Mapping Generative Adversarial Networks for Brain MR to PET Synthesis. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , PP,	11.7	11
60	Simple-Encoded evolving convolutional neural network and its application to skin disease image classification. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 67, 100955	9.8	2
59	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> , <b>2021</b> , 1-1	3	
58	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 1150-1163	15.6	10
57	Energy-efficient trajectory planning for a multi-UAV-assisted mobile edge computing system. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2020</b> , 21, 1713-1725	2.2	11
56	Differential Evolution With a Variable Population Size for Deployment Optimization in a UAV-Assisted IoT Data Collection System. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2020</b> , 4, 324-335	4.1	23
55	Dimensionality reduction in evolutionary algorithms-based feature selection for motor imagery brain-computer interface. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 52, 100597	9.8	12
54	Collaboration and Resource Sharing in the Multidepot Multiperiod Vehicle Routing Problem with Pickups and Deliveries. <i>Sustainability</i> , <b>2020</b> , 12, 5966	3.6	7
53	A Review on Computational Intelligence Techniques in Cloud and Edge Computing. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2020</b> , 4, 742-763	4.1	20

52	Matsuoka S. CPG With Desired Rhythmic Signals for Adaptive Walking of Humanoid Robots. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 613-626	10.2	11
51	Utilizing the Correlation Between Constraints and Objective Function for Constrained Evolutionary Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 29-43	15.6	26
50	AnD: A many-objective evolutionary algorithm with angle-based selection and shift-based density estimation. <i>Information Sciences</i> , <b>2020</b> , 509, 400-419	7.7	63
49	Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 1499-1513	7.3	48
48	Joint Deployment and Task Scheduling Optimization for Large-Scale Mobile Users in Multi-UAV-Enabled Mobile Edge Computing. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 3984-3997	10.2	83
47	A Bilevel Optimization Approach for Joint Offloading Decision and Resource Allocation in Cooperative Mobile Edge Computing. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 4228-4241	10.2	31
46	Handling Constrained Multiobjective Optimization Problems With Constraints in Both the Decision and Objective Spaces. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 870-884	15.6	79
45	Evolutionary Constrained Multiobjective Optimization: Test Suite Construction and Performance Comparisons. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 972-986	15.6	59
44	Evolutionary dynamic constrained optimization: Test suite construction and algorithm comparisons. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 50, 100559	9.8	11
43	Indicator-Based Constrained Multiobjective Evolutionary Algorithms. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-13	7.3	21
42	A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-12	7.3	12
41	An Adaptive Framework to Tune the Coordinate Systems in Nature-Inspired Optimization Algorithms. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1403-1416	10.2	21
40	Composite Differential Evolution for Constrained Evolutionary Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 1482-1495	7.3	54
39	Global and Local Surrogate-Assisted Differential Evolution for Expensive Constrained Optimization Problems With Inequality Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1642-1656	10.2	57
38	Differential Evolution With a New Encoding Mechanism for Optimizing Wind Farm Layout. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 1040-1054	11.9	62
37	ECoFFeS: A Software Using Evolutionary Computation for Feature Selection in Drug Discovery. <i>IEEE Access</i> , <b>2018</b> , 6, 20950-20963	3.5	9
36	Scalarizing Functions in Decomposition-Based Multiobjective Evolutionary Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 296-313	15.6	48
35	On the selection of solutions for mutation in differential evolution. <i>Frontiers of Computer Science</i> , <b>2018</b> , 12, 297-315	2.2	21

34	A Two-Phase Differential Evolution for Uniform Designs in Constrained Experimental Domains. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2017</b> , 21, 665-680	15.6	47
33	A Weighted Biobjective Transformation Technique for Locating Multiple Optimal Solutions of Nonlinear Equation Systems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2017</b> , 21, 697-713	15.6	41
32	Stability analysis for impulsive fractional hybrid systems via variational Lyapunov method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2017</b> , 45, 140-157	3.7	14
31	Multiobjective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows: Formulation, Instances, and Algorithms. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 582-94	10.2	107
30	Utilizing cumulative population distribution information in differential evolution. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 48, 329-346	7.5	60
29	Incorporating Objective Function Information Into the Feasibility Rule for Constrained Evolutionary Optimization. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2938-2952	10.2	103
28	A comparative study of constraint-handling techniques in evolutionary constrained multiobjective optimization <b>2016</b> ,		25
27	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2015</b> , 19, 414-431	15.6	62
26	Incorporating PLS model information into particle swarm optimization for descriptor selection in QSAR/QSPR. <i>Journal of Chemometrics</i> , <b>2015</b> , 29, 627-636	1.6	16
25	Performance Analysis of the (1+1) Evolutionary Algorithm for the Multiprocessor Scheduling Problem. <i>Algorithmica</i> , <b>2015</b> , 73, 21-41	0.9	10
24	MOMMOP: multiobjective optimization for locating multiple optimal solutions of multimodal optimization problems. <i>IEEE Transactions on Cybernetics</i> , <b>2015</b> , 45, 830-43	10.2	110
23	Analysis of Solution Quality of a Multiobjective Optimization-Based Evolutionary Algorithm for Knapsack Problem. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 74-85	0.9	
22	Differential evolution based on covariance matrix learning and bimodal distribution parameter setting. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 18, 232-247	7.5	199
21	An improved (μ)-constrained differential evolution for constrained optimization. <i>Information Sciences</i> , <b>2013</b> , 222, 302-322	7.7	101
20	Enhancing the search ability of differential evolution through orthogonal crossover. <i>Information Sciences</i> , <b>2012</b> , 185, 153-177	7.7	182
19	A dynamic hybrid framework for constrained evolutionary optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 203-17		61
18	Combining Multiobjective Optimization With Differential Evolution to Solve Constrained Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2012</b> , 16, 117-134	15.6	251
17	A regularity model-based multiobjective estimation of distribution algorithm with reducing redundant cluster operator. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 3526-3538	7.5	24

16	Community Detection in Social and Biological Networks Using Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 71-85	0.9	30
15	Differential Evolution With Composite Trial Vector Generation Strategies and Control Parameters. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2011</b> , 15, 55-66	15.6	1009
14	Constrained evolutionary optimization by means of (1+1)-differential evolution and improved adaptive trade-off model. <i>Evolutionary Computation</i> , <b>2011</b> , 19, 249-85	4.3	69
13	Hybrid differential evolution and adaptive trade-off model to solve constrained optimization problems <b>2010</b> ,		2
12	Hybridizing particle swarm optimization with differential evolution for constrained numerical and engineering optimization. <i>Applied Soft Computing Journal</i> , <b>2010</b> , 10, 629-640	7.5	453
11	Hybrid Self-Adaptive Orthogonal Genetic Algorithm for Solving Global Optimization Problems. <i>Ruan Jian Xue Bao/Journal of Software</i> , <b>2010</b> , 21, 1296-1307		16
10	Accelerating adaptive trade-off model using shrinking space technique for constrained evolutionary optimization. <i>International Journal for Numerical Methods in Engineering</i> , <b>2009</b> , 77, 1501-1534	3.4	43
9	A hybrid multi-swarm particle swarm optimization to solve constrained optimization problems. <i>Frontiers of Computer Science</i> , <b>2009</b> , 3, 38-52		56
8	Constrained optimization based on hybrid evolutionary algorithm and adaptive constraint-handling technique. <i>Structural and Multidisciplinary Optimization</i> , <b>2009</b> , 37, 395-413	3.6	159
7	Constrained Optimization Evolutionary Algorithms. <i>Ruan Jian Xue Bao/Journal of Software</i> , <b>2009</b> , 20, 11-29		23
6	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2008</b> , 12, 80-92	15.6	218
5	An orthogonal design based constrained evolutionary optimization algorithm. <i>Engineering Optimization</i> , <b>2007</b> , 39, 715-736	2	37
4	A good nodes set evolution strategy for constrained optimization <b>2007</b> ,		4
3	A new constrained optimization evolutionary algorithm by using good point set <b>2007</b> ,		1
2	Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 560-75		182
1	A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2006</b> , 10, 658-675	15.6	241