

Ke Tang

List of Publications by Citations

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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.

149
papers

4,866
citations

38
h-index

65
g-index

156
ext. papers

6,209
ext. citations

6.1
avg, IF

6.2
L-index

#	Paper	IF	Citations
149	Large scale evolutionary optimization using cooperative coevolution. <i>Information Sciences</i> , 2008 , 178, 2985-2999	7.7	634
148	Many-Objective Evolutionary Algorithms. <i>ACM Computing Surveys</i> , 2015 , 48, 1-35	13.4	419
147	Decomposition-Based Memetic Algorithm for Multiobjective Capacitated Arc Routing Problem. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 151-165	15.6	179
146	Memetic Algorithm With Extended Neighborhood Search for Capacitated Arc Routing Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 1151-1166	15.6	138
145	Population-Based Algorithm Portfolios for Numerical Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 782-800	15.6	131
144	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 924-938	15.6	128
143	Dynamic sampling approach to training neural networks for multiclass imbalance classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 647-60	10.3	104
142	Online Ensemble Learning of Data Streams with Gradually Evolved Classes. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 1532-1545	4.2	94
141	Large-Scale Global Optimization Using Cooperative Coevolution with Variable Interaction Learning 2010 , 300-309		86
140	Evolutionary Optimization: Pitfalls and Booby Traps. <i>Journal of Computer Science and Technology</i> , 2012 , 27, 907-936	1.7	84
139	A Survey on Cooperative Co-Evolutionary Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 421-441	15.6	84
138	Designing benchmark problems for large-scale continuous optimization. <i>Information Sciences</i> , 2015 , 316, 419-436	7.7	82
137	Scalability of generalized adaptive differential evolution for large-scale continuous optimization. <i>Soft Computing</i> , 2011 , 15, 2141-2155	3.5	82
136	Path Planning for Single Unmanned Aerial Vehicle by Separately Evolving Waypoints. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 1130-1146	6.5	78
135	A framework for finding robust optimal solutions over time. <i>Memetic Computing</i> , 2013 , 5, 3-18	3.4	76
134	A large population size can be unhelpful in evolutionary algorithms. <i>Theoretical Computer Science</i> , 2012 , 436, 54-70	1.1	74
133	Empirical analysis of evolutionary algorithms with immigrants schemes for dynamic optimization. <i>Memetic Computing</i> , 2009 , 1, 3-24	3.4	74

132	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 234-246	4.6	70
131	Identification of structurally conserved residues of proteins in absence of structural homologs using neural network ensemble. <i>Bioinformatics</i> , 2009 , 25, 204-10	7.2	64
130	Analysis of Computational Time of Simple Estimation of Distribution Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 1-22	15.6	64
129	Multi-Objective Approaches to Optimal Testing Resource Allocation in Modular Software Systems. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 563-575	4.6	61
128	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 188-200	15.6	60
127	Self-adaptive differential evolution with neighborhood search 2008 ,		59
126	Turning High-Dimensional Optimization Into Computationally Expensive Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 143-156	15.6	55
125	Transfer Learning for Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8683-8694	8.3	54
124	Negatively Correlated Search. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 542-550	14.2	53
123	A Memetic Algorithm for Periodic Capacitated Arc Routing Problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 1654-67		51
122	Population-based Algorithm Portfolios with automated constituent algorithms selection. <i>Information Sciences</i> , 2014 , 279, 94-104	7.7	49
121	A Scalable Indicator-Based Evolutionary Algorithm for Large-Scale Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 525-537	15.6	47
120	Benchmarking Optimization Algorithms: An Open Source Framework for the Traveling Salesman Problem. <i>IEEE Computational Intelligence Magazine</i> , 2014 , 9, 40-52	5.6	45
119	Differential evolution for high-dimensional function optimization 2007 ,		45
118	Concept Drift Adaptation by Exploiting Historical Knowledge. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4822-4832	10.3	43
117	A global repair operator for capacitated arc routing problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 723-34		43
116	Multilevel cooperative coevolution for large scale optimization 2008 ,		43
115	Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 2384-2396	8.1	42

114	History-Based Topological Speciation for Multimodal Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 136-150	15.6	42
113	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 96-109	15.6	38
112	Improving Estimation of Distribution Algorithm on Multimodal Problems by Detecting Promising Areas. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1438-49	10.2	38
111	A new self-adaptation scheme for differential evolution. <i>Neurocomputing</i> , 2014 , 146, 2-16	5.4	37
110	Pattern Recommendation in Task-oriented Applications: A Multi-Objective Perspective [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 43-53	5.6	37
109	Robust optimization over time [A new perspective on dynamic optimization problems 2010 ,		35
108	Multiobjective genetic programming for maximizing ROC performance. <i>Neurocomputing</i> , 2014 , 125, 102-118	5.4	33
107	Classification- and Regression-Assisted Differential Evolution for Computationally Expensive Problems. <i>Journal of Computer Science and Technology</i> , 2012 , 27, 1024-1034	1.7	33
106	. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 754-765	4.6	32
105	Scaling Up Covariance Matrix Adaptation Evolution Strategy Using Cooperative Coevolution. <i>Lecture Notes in Computer Science</i> , 2013 , 350-357	0.9	32
104	Explicit Evolutionary Multitasking for Combinatorial Optimization: A Case Study on Capacitated Vehicle Routing Problem. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3143-3156	10.2	32
103	A Scalable Approach to Capacitated Arc Routing Problems Based on Hierarchical Decomposition. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3928-3940	10.2	30
102	A Survey on Neural Network Interpretability. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 726-742	4.1	30
101	Constrained Monotone $\$k\$$ -Submodular Function Maximization Using Multiobjective Evolutionary Algorithms With Theoretical Guarantee. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 595-608	15.6	27
100	2009 ,		26
99	Capacitated arc routing problem in uncertain environments 2010 ,		24
98	Feature Selection for Maximizing the Area Under the ROC Curve 2009 ,		22
97	On the Effectiveness of Sampling for Evolutionary Optimization in Noisy Environments. <i>Evolutionary Computation</i> , 2018 , 26, 237-267	4.3	21

96	Evolving Distributed Algorithms With Genetic Programming. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 242-265	15.6	21
95	Memetic algorithm with route decomposing for periodic capacitated arc routing problem. <i>Applied Soft Computing Journal</i> , 2017 , 52, 1130-1142	7.5	21
94	Using computational intelligence for large scale air route networks design. <i>Applied Soft Computing Journal</i> , 2012 , 12, 2790-2800	7.5	21
93	A machine learning approach for the identification of odorant binding proteins from sequence-derived properties. <i>BMC Bioinformatics</i> , 2007 , 8, 351	3.6	21
92	An Adaptive Framework to Tune the Coordinate Systems in Nature-Inspired Optimization Algorithms. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1403-1416	10.2	21
91	Multiobjective optimization of classifiers by means of 3D convex-hull-based evolutionary algorithms. <i>Information Sciences</i> , 2016 , 367-368, 80-104	7.7	20
90	Classification-assisted Differential Evolution for computationally expensive problems 2011 ,		20
89	Simultaneous Optimization of Airspace Congestion and Flight Delay in Air Traffic Network Flow Management. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3072-3082	6.1	19
88	Robust Optimization Over Time: Problem Difficulties and Benchmark Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 731-745	15.6	19
87	A Fiber Bragg Grating Sensor Network Using an Improved Differential Evolution Algorithm. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1385-1387	2.2	19
86	Preselection via classification: A case study on evolutionary multiobjective optimization. <i>Information Sciences</i> , 2018 , 465, 388-403	7.7	18
85	Selective negative correlation learning approach to incremental learning. <i>Neurocomputing</i> , 2009 , 72, 2796-2805	5.4	18
84	Stochastic Gradient Descent for Nonconvex Learning Without Bounded Gradient Assumptions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 4394-4400	10.3	18
83	A Parallel Divide-and-Conquer-Based Evolutionary Algorithm for Large-Scale Optimization. <i>IEEE Access</i> , 2019 , 7, 163105-163118	3.5	17
82	An improved Two Archive Algorithm for Many-Objective optimization 2014 ,		17
81	An Estimation of Distribution Algorithm for Mixed-Variable Newsvendor Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 1-1	15.6	16
80	On Subset Selection with General Cost Constraints 2017 ,		16
79	Network-Based Heterogeneous Particle Swarm Optimization and Its Application in UAV Communication Coverage. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2020 , 4, 312-323	4.1	16

78	Global versus local search: the impact of population sizes on evolutionary algorithm performance. <i>Journal of Global Optimization</i> , 2016 , 66, 511-534	1.5	15
77	Finding Robust Solutions to Dynamic Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2013 , 616-625	0.9	15
76	An Efficient Evolutionary Approach to Parameter Identification in a Building Thermal Model. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 957-969		15
75	A Memetic Genetic Programming with decision tree-based local search for classification problems 2011 ,		14
74	Evolutionary Computation for Large-scale Multi-objective Optimization: A Decade of Progresses. <i>International Journal of Automation and Computing</i> , 2021 , 18, 155-169	3.5	14
73	Running Time Analysis of the ((1+1))-EA for OneMax and LeadingOnes Under Bit-Wise Noise. <i>Algorithmica</i> , 2019 , 81, 749-795	0.9	13
72	A memetic algorithm for uncertain Capacitated Arc Routing Problems 2013 ,		13
71	Impact of problem decomposition on Cooperative Coevolution 2013 ,		13
70	Target shape design optimization by evolving B-splines with cooperative coevolution. <i>Applied Soft Computing Journal</i> , 2016 , 48, 672-682	7.5	13
69	Particle Swarm Optimization with Moving Particles on Scale-Free Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 497-506	4.9	13
68	An evolutionary approach for dynamic single-runway arrival sequencing and scheduling problem. <i>Soft Computing</i> , 2017 , 21, 7021-7037	3.5	11
67	Sequence searching and evaluation: a unified approach for aircraft arrival sequencing and scheduling problems. <i>Memetic Computing</i> , 2016 , 8, 109-123	3.4	11
66	A developmental solution to (dynamic) capacitated arc routing problems using genetic programming 2012 ,		11
65	QoS-aware long-term based service composition in cloud computing 2015 ,		10
64	Convex hull-based multi-objective evolutionary computation for maximizing receiver operating characteristics performance. <i>Memetic Computing</i> , 2016 , 8, 35-44	3.4	10
63	Frequency Fitness Assignment. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 226-243	15.6	10
62	Multi-start JADE with knowledge transfer for numerical optimization 2009 ,		10
61	Efficient DNN Neuron Pruning by Minimizing Layer-wise Nonlinear Reconstruction Error 2018 ,		10

60	What are dynamic optimization problems? 2014 ,		9
59	Optimization based Layer-wise Magnitude-based Pruning for DNN Compression 2018 ,		9
58	Community Detection Using Cooperative Co-evolutionary Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2012 , 235-244	0.9	9
57	Cooperative Co-evolution with Soft Grouping for Large Scale Global Optimization 2019 ,		8
56	Memetic algorithm with heuristic candidate list strategy for Capacitated Arc Routing Problem 2010 ,		8
55	Handling Constrained Multiobjective Optimization Problems via Bidirectional Coevolution. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	8
54	Automatically discovering clusters of algorithm and problem instance behaviors as well as their causes from experimental data, algorithm setups, and instance features. <i>Applied Soft Computing Journal</i> , 2018 , 73, 366-382	7.5	8
53	Efficient Minimum Cost Seed Selection With Theoretical Guarantees for Competitive Influence Maximization. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	7
52	Cooperative Co-Evolution-Based Design Optimization: A Concurrent Engineering Perspective. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 173-188	15.6	7
51	Unsupervised Feature Selection by Pareto Optimization. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 3534-3541	5	7
50	Automatic Construction of Parallel Portfolios via Explicit Instance Grouping. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 1560-1567	5	7
49	A Learning-to-Rank Algorithm for Constructing Defect Prediction Models. <i>Lecture Notes in Computer Science</i> , 2012 , 167-175	0.9	7
48	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1690-1703	10.7	7
47	A review of concurrent optimisation methods. <i>International Journal of Bio-Inspired Computation</i> , 2014 , 6, 22	2.9	6
46	Feature selection for MAUC-oriented classification systems. <i>Neurocomputing</i> , 2012 , 89, 39-54	5.4	6
45	Pipe failure prediction: A data mining method 2013 ,		6
44	Prediction of functionally important sites from protein sequences using sparse kernel least squares classifiers. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 384, 155-9	3.4	6
43	A study on scalable representations for evolutionary optimization of ground structures. <i>Evolutionary Computation</i> , 2012 , 20, 453-79	4.3	6

42	Novel Loop Structures and the Evolution of Mathematical Algorithms. <i>Lecture Notes in Computer Science</i> , 2011 , 49-60	0.9	6
41	Memetic search for vehicle routing with simultaneous pickup-delivery and time windows. <i>Swarm and Evolutionary Computation</i> , 2021 , 66, 100927	9.8	6
40	A General Approach to Running Time Analysis of Multi-objective Evolutionary Algorithms 2018 ,		5
39	Generative Adversarial Construction of Parallel Portfolios. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	5
38	QoS-Aware Web Service Selection with Internal Complementarity. <i>IEEE Transactions on Services Computing</i> , 2019 , 12, 276-289	4.8	5
37	Analysis of noisy evolutionary optimization when sampling fails 2018 ,		4
36	Immigrant schemes for evolutionary algorithms in dynamic environments: Adapting the replacement rate. <i>Science China Information Sciences</i> , 2011 , 54, 1352-1364	3.4	4
35	Approximation Guarantees of Stochastic Greedy Algorithms for Subset Selection 2018 ,		4
34	Evolutionary Computation for Dynamic Capacitated Arc Routing Problem. <i>Studies in Computational Intelligence</i> , 2013 , 377-401	0.8	4
33	Towards Faster Vehicle Routing by Transferring Knowledge From Customer Representation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-14	6.1	4
32	Learning Rates for Stochastic Gradient Descent With Nonconvex Objectives. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 4505-4511	13.3	4
31	Towards a Running Time Analysis of the (1+1)-EA for OneMax and LeadingOnes Under General Bit-Wise Noise. <i>Lecture Notes in Computer Science</i> , 2018 , 165-177	0.9	4
30	Evolutionary reinforcement learning via cooperative coevolutionary negatively correlated search. <i>Swarm and Evolutionary Computation</i> , 2021 , 68, 100974	9.8	4
29	RoSANE: Robust and scalable attributed network embedding for sparse networks. <i>Neurocomputing</i> , 2020 , 409, 231-243	5.4	3
28	Running time analysis of the (1+1)-EA for robust linear optimization. <i>Theoretical Computer Science</i> , 2020 , 843, 57-72	1.1	3
27	On Performance Estimation in Automatic Algorithm Configuration. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 2384-2391	5	3
26	A Quality-Sensitive Method for Learning from Crowds. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2017 , 29, 2643-2654	4.2	3
25	Evolving exact integer algorithms with Genetic Programming 2014 ,		3

24	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization 2014 ,		3
23	. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 595-607	15.6	3
22	Parallel exploration via negatively correlated search. <i>Frontiers of Computer Science</i> , 2021 , 15, 1	2.2	3
21	A new evolutionary multi-objective algorithm for convex hull maximization 2015 ,		2
20	Local ensemble surrogate assisted crowding differential evolution 2015 ,		2
19	Efficient Combinatorial Optimization for Word-Level Adversarial Textual Attack. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2022 , 30, 98-111	3.6	2
18	Alleviate the Hypervolume Degeneration Problem of NSGA-II. <i>Lecture Notes in Computer Science</i> , 2011 , 425-434	0.9	2
17	Gradient Descent Learning With Floats. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
16	A multi-modal optimization approach to single path planning for unmanned aerial vehicle 2016 ,		2
15	Analysis of Noisy Evolutionary Optimization When Sampling Fails. <i>Algorithmica</i> , 2021 , 83, 940-975	0.9	2
14	Dynamic Optimization in Fast-Changing Environments via Offline Evolutionary Search. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	2
13	ATEN: And/Or tree ensemble for inferring accurate Boolean network topology and dynamics. <i>Bioinformatics</i> , 2020 , 36, 578-585	7.2	1
12	Characterizing environmental changes in Robust Optimization Over Time 2012 ,		1
11	GloDyNE: Global Topology Preserving Dynamic Network Embedding. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	1
10	Adaptive Differential Evolution for Multi-objective Optimization. <i>Communications in Computer and Information Science</i> , 2009 , 9-16	0.3	1
9	The Performance Effects of Interaction Frequency in Parallel Cooperative Coevolution. <i>Lecture Notes in Computer Science</i> , 2014 , 82-93	0.9	1
8	On the robustness of median sampling in noisy evolutionary optimization. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	1
7	Cooperative Coevolution-based Design Space Exploration for Multi-mode Dataflow Mapping. <i>Transactions on Embedded Computing Systems</i> , 2021 , 20, 1-25	1.8	1

6	Parallel Random Embedding with Negatively Correlated Search. <i>Lecture Notes in Computer Science</i> , 2021 , 339-351	0.9	1
5	A Deep Unsupervised Learning Approach for Airspace Complexity Evaluation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-13	6.1	1
4	A heuristic repair method for dial-a-ride problem in intracity logistic based on neighborhood shrinking. <i>Multimedia Tools and Applications</i> , 2020 , 80, 30775	2.5	0
3	Selective further learning of hybrid ensemble for class imbalanced increment learning. <i>Big Data & Information Analytics</i> , 2017 , 2, 1-21	1	
2	Multi-Fidelity Simulation Modeling for Discrete Event Simulation: An Optimization Perspective. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-14	4.9	
1	Training Quantized Deep Neural Networks via Cooperative Coevolution. <i>Lecture Notes in Computer Science</i> , 2022 , 81-93	0.9	