Kalayanmoy Deb

List of Publications by Year
in descending order

523 papers	86,338 citations	8159 76 h-index	428 275 g-index
541 all docs	541 docs citations	541 times ranked	34688 citing authors

#	Article	IF	Citations
1	A fast and elitist multiobjective genetic algorithm: NSGA-II. IEEE Transactions on Evolutionary Computation, 2002, 6, 182-197.	7.5	32,998
2	Muiltiobjective Optimization Using Nondominated Sorting in Genetic Algorithms. Evolutionary Computation, 1994, 2, 221-248.	2.3	5,518
3	Comparison of Multiobjective Evolutionary Algorithms: Empirical Results. Evolutionary Computation, 2000, 8, 173-195.	2.3	4,646
4	An Evolutionary Many-Objective Optimization Algorithm Using Reference-Point-Based Nondominated Sorting Approach, Part I: Solving Problems With Box Constraints. IEEE Transactions on Evolutionary Computation, 2014, 18, 577-601.	7.5	4,332
5	An efficient constraint handling method for genetic algorithms. Computer Methods in Applied Mechanics and Engineering, 2000, 186, 311-338.	3.4	3,194
6	A Fast Elitist Non-dominated Sorting Genetic Algorithm for Multi-objective Optimization: NSGA-II. Lecture Notes in Computer Science, 2000, , 849-858.	1.0	2,772
7	Combining Convergence and Diversity in Evolutionary Multiobjective Optimization. Evolutionary Computation, 2002, 10, 263-282.	2.3	1,298
8	An Evolutionary Many-Objective Optimization Algorithm Using Reference-Point Based Nondominated Sorting Approach, Part II: Handling Constraints and Extending to an Adaptive Approach. IEEE Transactions on Evolutionary Computation, 2014, 18, 602-622.	7.5	1,292
9	Scalable Test Problems for Evolutionary Multiobjective Optimization. , 2005, , 105-145.		1,064
10	A Comparative Analysis of Selection Schemes Used in Genetic Algorithms. Foundations of Genetic Algorithms, 1991, , 69-93.	0.6	1,054
11	Multi-objective Genetic Algorithms: Problem Difficulties and Construction of Test Problems. Evolutionary Computation, 1999, 7, 205-230.	2.3	1,053
12	An Evolutionary Many-Objective Optimization Algorithm Based on Dominance and Decomposition. IEEE Transactions on Evolutionary Computation, 2015, 19, 694-716.	7.5	923
13	Pymoo: Multi-Objective Optimization in Python. IEEE Access, 2020, 8, 89497-89509.	2.6	751
14	Scalable multi-objective optimization test problems. , 0, , .		739
15	A Simulated Annealing-Based Multiobjective Optimization Algorithm: AMOSA. IEEE Transactions on Evolutionary Computation, 2008, 12, 269-283.	7.5	729
16	Multiple Criteria Decision Making, Multiattribute Utility Theory: Recent Accomplishments and What Lies Ahead. Management Science, 2008, 54, 1336-1349.	2.4	638
17	Evaluating the $\hat{I}\mu$-Domination Based Multi-Objective Evolutionary Algorithm for a Quick Computation of Pareto-Optimal Solutions. Evolutionary Computation, 2005, 13, 501-525.	2.3	619
18	A Computationally Efficient Evolutionary Algorithm for Real-Parameter Optimization. Evolutionary Computation, 2002, 10, 371-395.	2.3	517

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19	Dynamic Multiobjective Optimization Problems: Test Cases, Approximations, and Applications. IEEE Transactions on Evolutionary Computation, 2004, 8, 425-442.	7.5	503
20	A Review on Bilevel Optimization: From Classical to Evolutionary Approaches and Applications. IEEE Transactions on Evolutionary Computation, 2018, 22, 276-295.	7.5	489
21	Objective Reduction in Many-Objective Optimization: Linear and Nonlinear Algorithms. IEEE Transactions on Evolutionary Computation, 2013, 17, 77-99.	7.5	408
22	Introducing Robustness in Multi-Objective Optimization. Evolutionary Computation, 2006, 14, 463-494.	2.3	385
23	Optimal design of a welded beam via genetic algorithms. AIAA Journal, 1991, 29, 2013-2015.	1.5	369
24	Multi-objective Optimisation Using Evolutionary Algorithms: An Introduction. , 2011, , 3-34.		354
25	A Hybrid Framework for Evolutionary Multi-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 495-511.	7.5	333
26	Self-Adaptive Genetic Algorithms with Simulated Binary Crossover. Evolutionary Computation, 2001, 9, 197-221.	2.3	302
27	Design of truss-structures for minimum weight using genetic algorithms. Finite Elements in Analysis and Design, 2001, 37, 447-465.	1.7	284
28	Finding Knees in Multi-objective Optimization. Lecture Notes in Computer Science, 2004, , 722-731.	1.0	284
29	Reference point based multi-objective optimization using evolutionary algorithms. , 2006, , .		281
30	Performance Scaling of Multi-objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2003, , 376-390.	1.0	276
31	Omni-optimizer: A generic evolutionary algorithm for single and multi-objective optimization. European Journal of Operational Research, 2008, 185, 1062-1087.	3.5	271
32	Controlled Elitist Non-dominated Sorting Genetic Algorithms for Better Convergence. Lecture Notes in Computer Science, 2001, , 67-81.	1.0	270
33	Dynamic Multi-objective Optimization and Decision-Making Using Modified NSGA-II: A Case Study on Hydro-thermal Power Scheduling. , 2007, , 803-817.		267
34	NSGA-Net. , 2019, , .		260
35	An introduction to genetic algorithms. Sadhana - Academy Proceedings in Engineering Sciences, 1999, 24, 293-315.	0.8	254
36	Opposition based learning: A literature review. Swarm and Evolutionary Computation, 2018, 39, 1-23.	4.5	250

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37	Push and pull search for solving constrained multi-objective optimization problems. Swarm and Evolutionary Computation, 2019, 44, 665-679.	4.5	242
38	Novel composition test functions for numerical global optimization. , 0, , .		238
39	An Interactive Evolutionary Multiobjective Optimization Method Based on Progressively Approximated Value Functions. IEEE Transactions on Evolutionary Computation, 2010, 14, 723-739.	7.5	220
40	Understanding knee points in bicriteria problems and their implications as preferred solution principles. Engineering Optimization, 2011, 43, 1175-1204.	1.5	219
41	Constrained Test Problems for Multi-objective Evolutionary Optimization. Lecture Notes in Computer Science, 2001, , 284-298.	1.0	215
42	Seeking Multiple Solutions: An Updated Survey on Niching Methods and Their Applications. IEEE Transactions on Evolutionary Computation, 2017, 21, 518-538.	7.5	210
43	On self-adaptive features in real-parameter evolutionary algorithms. IEEE Transactions on Evolutionary Computation, 2001, 5, 250-270.	7.5	203
44	Many-Objective Software Remodularization Using NSGA-III. ACM Transactions on Software Engineering and Methodology, 2015, 24, 1-45.	4.8	197
45	Reference Point Based Multi-Objective Optimization Using Evolutionary Algorithms. International Journal of Computational Intelligence Research, 2006, 2, .	0.3	196
46	Analysing mutation schemes for real-parameter genetic algorithms. International Journal of Artificial Intelligence and Soft Computing, 2014, 4, 1.	0.1	183
47	Reliability-Based Optimization Using Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2009, 13, 1054-1074.	7.5	181
48	Innovization. , 2006, , .		174
49	Towards a Quick Computation of Well-Spread Pareto-Optimal Solutions. Lecture Notes in Computer Science, 2003, , 222-236.	1.0	170
50	Multi-objective optimal path planning using elitist non-dominated sorting genetic algorithms. Soft Computing, 2013, 17, 1283-1299.	2.1	157
51	Toward an Estimation of Nadir Objective Vector Using a Hybrid of Evolutionary and Local Search Approaches. IEEE Transactions on Evolutionary Computation, 2010, 14, 821-841.	7.5	153
52	A Niched-Penalty Approach for Constraint Handling in Genetic Algorithms. , 1999, , 235-243.		149
53	GeneAS: A Robust Optimal Design Technique for Mechanical Component Design. , 1997, , 497-514.		147
54	Searching for Robust Pareto-Optimal Solutions in Multi-objective Optimization. Lecture Notes in Computer Science, 2005, , 150-164.	1.0	147

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55	Portfolio optimization with an envelope-based multi-objective evolutionary algorithm. European Journal of Operational Research, 2009, 199, 684-693.	3.5	147
56	On finding multiple Pareto-optimal solutions using classical and evolutionary generating methods. European Journal of Operational Research, 2007, 181, 1630-1652.	3.5	139
57	Self-adaptive simulated binary crossover for real-parameter optimization. , 2007, , .		138
58	An Efficient and Accurate Solution Methodology for Bilevel Multi-Objective Programming Problems Using a Hybrid Evolutionary-Local-Search Algorithm. Evolutionary Computation, 2010, 18, 403-449.	2.3	138
59	Data mining methods for knowledge discovery in multi-objective optimization: Part A - Survey. Expert Systems With Applications, 2017, 70, 139-159.	4.4	131
60	Interrelationship-Based Selection for Decomposition Multiobjective Optimization. IEEE Transactions on Cybernetics, 2015, 45, 2076-2088.	6.2	128
61	Adaptively Allocating Search Effort in Challenging Many-Objective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2018, 22, 433-448.	7.5	126
62	Comparison between MOEA/D and NSGA-III on a set of novel many and multi-objective benchmark problems with challenging difficulties. Swarm and Evolutionary Computation, 2019, 46, 104-117.	4.5	123
63	Nonlinear goal programming using multi-objective genetic algorithms. Journal of the Operational Research Society, 2001, 52, 291-302.	2.1	121
64	Optimization of process parameters of mechanical type advanced machining processes using genetic algorithms. International Journal of Machine Tools and Manufacture, 2007, 47, 900-919.	6.2	121
65	Omni-optimizer: A Procedure for Single and Multi-objective Optimization. Lecture Notes in Computer Science, 2005, , 47-61.	1.0	120
66	Reliable classification of two-class cancer data using evolutionary algorithms. BioSystems, 2003, 72, 111-129.	0.9	116
67	Comparison of multi-modal optimization algorithms based on evolutionary algorithms. , 2006, , .		113
68	Multiobjective dynamic optimization of an industrial nylon 6 semibatch reactor using genetic algorithm. Journal of Applied Polymer Science, 1998, 69, 69-87.	1.3	112
69	Multi-Speed Gearbox Design Using Multi-Objective Evolutionary Algorithms. Journal of Mechanical Design, Transactions of the ASME, 2003, 125, 609-619.	1.7	112
70	Interactive evolutionary multi-objective optimization and decision-making using reference direction method. , 2007, , .		111
71	Light beam search based multi-objective optimization using evolutionary algorithms. , 2007, , .		111
72	Finding optimal strategies in a multi-period multi-leaderâ€"follower Stackelberg game using an evolutionary algorithm. Computers and Operations Research, 2014, 41, 374-385.	2.4	109

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73	Optimal Scheduling of Urban Transit Systems Using Genetic Algorithms. Journal of Transportation Engineering, 1995, 121, 544-553.	0.9	108
74	Sufficient conditions for deceptive and easy binary functions. Annals of Mathematics and Artificial Intelligence, 1994, 10, 385-408.	0.9	107
75	Multi-Criteria Code Refactoring Using Search-Based Software Engineering. ACM Transactions on Software Engineering and Methodology, 2016, 25, 1-53.	4.8	106
76	A genetic-fuzzy approach for mobile robot navigation among moving obstacles. International Journal of Approximate Reasoning, 1999, 20, 145-172.	1.9	105
77	A Hybrid Multi-objective Evolutionary Approach to Engineering Shape Design. Lecture Notes in Computer Science, 2001, , 385-399.	1.0	100
78	Solving Bilevel Multi-Objective Optimization Problems Using Evolutionary Algorithms. Lecture Notes in Computer Science, 2009, , 110-124.	1.0	99
79	Implicit Niching in a Learning Classifier System: Nature's Way. Evolutionary Computation, 1994, 2, 37-66.	2.3	98
80	Integrating User Preferences into Evolutionary Multi-Objective Optimization. Studies in Fuzziness and Soft Computing, 2005, , 461-477.	0.6	96
81	Financial time series prediction using hybrids of chaos theory, multi-layer perceptron and multi-objective evolutionary algorithms. Swarm and Evolutionary Computation, 2017, 36, 136-149.	4.5	95
82	Sensor network design of linear processes using genetic algorithms. Computers and Chemical Engineering, 1998, 22, 385-390.	2.0	93
83	Multimodal Optimization Using a Bi-Objective Evolutionary Algorithm. Evolutionary Computation, 2012, 20, 27-62.	2.3	93
84	Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. Evolutionary Computation, 2020, 28, 339-378.	2.3	91
85	Test Problem Construction for Single-Objective Bilevel Optimization. Evolutionary Computation, 2014, 22, 439-477.	2.3	90
86	A Unified Evolutionary Optimization Procedure for Single, Multiple, and Many Objectives. IEEE Transactions on Evolutionary Computation, 2016, 20, 358-369.	7.5	90
87	Analysis of Selection Algorithms: A Markov Chain Approach. Evolutionary Computation, 1996, 4, 133-167.	2.3	87
88	Multiobjective Evolutionary Design of Deep Convolutional Neural Networks for Image Classification. IEEE Transactions on Evolutionary Computation, 2021, 25, 277-291.	7.5	87
89	Multiâ€objective optimisation and multiâ€criteria decision making in SLS using evolutionary approaches. Rapid Prototyping Journal, 2011, 17, 458-478.	1.6	86
90	Evolutionary algorithm for bilevel optimization using approximations of the lower level optimal solution mapping. European Journal of Operational Research, 2017, 257, 395-411.	3.5	81

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91	Unveiling innovative design principles by means of multiple conflicting objectives. Engineering Optimization, 2003, 35, 445-470.	1.5	80
92	A review of hybrid evolutionary multiple criteria decision making methods. , 2014, , .		79
93	Improved Pruning of Non-Dominated Solutions Based on Crowding Distance for Bi-Objective Optimization Problems. , 0, , .		76
94	Improving differential evolution through a unified approach. Journal of Global Optimization, 2013, 55, 771-799.	1.1	76
95	U-NSGA-III: A Unified Evolutionary Optimization Procedure for Single, Multiple, and Many Objectives: Proof-of-Principle Results. Lecture Notes in Computer Science, 2015, , 34-49.	1.0	76
96	FREE VIBRATION OF LAMINATED COMPOSITE PLATES WITH CUTOUT. Journal of Sound and Vibration, 1999, 221, 443-470.	2.1	75
97	Test-case generator for nonlinear continuous parameter optimization techniques. IEEE Transactions on Evolutionary Computation, 2000, 4, 197-215.	7.5	75
98	Detecting irrigation extent, frequency, and timing in a heterogeneous arid agricultural region using MODIS time series, Landsat imagery, and ancillary data. Remote Sensing of Environment, 2018, 204, 197-211.	4.6	75
99	Multi-Objective Optimization. , 2016, , 145-184.		74
100	Non-linear Dimensionality Reduction Procedures for Certain Large-Dimensional Multi-objective Optimization Problems: Employing Correntropy and a Novel Maximum Variance Unfolding. , 2007, , 772-787.		72
101	Long path problems. Lecture Notes in Computer Science, 1994, , 149-158.	1.0	72
102	An interactive evolutionary multi-objective optimization and decision making procedure. Applied Soft Computing Journal, 2010, 10, 496-511.	4.1	71
103	Faster Hypervolume-Based Search Using Monte Carlo Sampling. Lecture Notes in Economics and Mathematical Systems, 2010, , 313-326.	0.3	71
104	A Flexible Optimization Procedure for Mechanical Component Design Based on Genetic Adaptive Search. Journal of Mechanical Design, Transactions of the ASME, 1998, 120, 162-164.	1.7	70
105	A population-based algorithm-generator for real-parameter optimization. Soft Computing, 2005, 9, 236-253.	2.1	70
106	Multi-objective optimization and decision making approaches to cricket team selection. Applied Soft Computing Journal, 2013, 13, 402-414.	4.1	70
107	Towards a better understanding of the epoxy-polymerization process using multi-objective evolutionary computation. Chemical Engineering Science, 2004, 59, 4261-4277.	1.9	69
108	Evolutionary Multi-objective Environmental/Economic Dispatch: Stochastic Versus Deterministic Approaches. Lecture Notes in Computer Science, 2005, , 677-691.	1.0	69

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109	Multi-Objective Optimization. , 2005, , 273-316.		69
110	AMGA2: improving the performance of the archive-based micro-genetic algorithm for multi-objective optimization. Engineering Optimization, 2011, 43, 377-401.	1.5	66
111	R-Metric: Evaluating the Performance of Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. IEEE Transactions on Evolutionary Computation, 2018, 22, 821-835.	7.5	65
112	Code-Smell Detection as a Bilevel Problem. ACM Transactions on Software Engineering and Methodology, 2014, 24, 1-44.	4.8	64
113	NSGANetV2: Evolutionary Multi-objective Surrogate-Assisted Neural Architecture Search. Lecture Notes in Computer Science, 2020, , 35-51.	1.0	64
114	Multi-objective Evolutionary Algorithms for the Risk-return Trade-off in Bank Loan Management. International Transactions in Operational Research, 2002, 9, 583-597.	1.8	63
115	Distributed Computing of Pareto-Optimal Solutions with Evolutionary Algorithms. Lecture Notes in Computer Science, 2003, , 534-549.	1.0	63
116	Approximate KKT points and a proximity measure for termination. Journal of Global Optimization, 2013, 56, 1463-1499.	1.1	63
117	Multi-objective Stackelberg game between a regulating authority and a mining company: A case study in environmental economics. , 2013, , .		63
118	On the use of many quality attributes for software refactoring: a many-objective search-based software engineering approach. Empirical Software Engineering, 2016, 21, 2503-2545.	3.0	63
119	Multi-objective Evolutionary Algorithms: Introducing Bias Among Pareto-optimal Solutions. Natural Computing Series, 2003, , 263-292.	2.2	62
120	Recommendation system for software refactoring using innovization and interactive dynamic optimization. , 2014, , .		62
121	Neural Architecture Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2971-2989.	9.7	62
122	Handling many-objective problems using an improved NSGA-II procedure. , 2012, , .		60
123	Optimum design of laminated composite plates with cutouts using a genetic algorithm. Composite Structures, 1998, 42, 265-279.	3.1	57
124	Introduction to Evolutionary Multiobjective Optimization. Lecture Notes in Computer Science, 2008, , 59-96.	1.0	57
125	High dimensional search-based software engineering. , 2014, , .		57
126	Mechanical Component Design for Multiple Ojectives Using Elitist Non-dominated Sorting GA. Lecture Notes in Computer Science, 2000, , 859-868.	1.0	56

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127	Optimal path and gait generations simultaneously of a six-legged robot using a GA-fuzzy approach. Robotics and Autonomous Systems, 2002, 41, 1-20.	3.0	56
128	Current trends in evolutionary multi-objective optimization. International Journal for Simulation and Multidisciplinary Design Optimization, 2007, 1, 1-8.	0.6	56
129	Genetic Algorithm-Based Multicriteria Optimization of Ironmaking in the Blast Furnace. Materials and Manufacturing Processes, 2009, 24, 343-349.	2.7	56
130	A Taxonomy for Metamodeling Frameworks for Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 104-116.	7.5	56
131	An Improved Adaptive Approach for Elitist Nondominated Sorting Genetic Algorithm for Many-Objective Optimization. Lecture Notes in Computer Science, 2013, , 307-321.	1.0	55
132	An integrated approach to automated innovization for discovering useful design principles: Case studies from engineering. Applied Soft Computing Journal, 2014, 15, 42-56.	4.1	55
133	Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2838-2849.	6.2	52
134	Effects of aspect ratio of footings on bearing capacity for geogrid-reinforced sand over soft soil. Geosynthetics International, 2017, 24, 362-382.	1.5	51
135	Real-coded evolutionary algorithms with parent-centric recombination. , 0, , .		50
136	Local search based evolutionary multi-objective optimization algorithm for constrained and unconstrained problems. , 2009, , .		50
137	Calibration and Optimal Leakage Management for a Real Water Distribution Network. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 134-142.	1.3	50
138	Towards automating the discovery of certain innovative design principles through a clustering-based optimization technique. Engineering Optimization, 2011, 43, 911-941.	1.5	50
139	An improved bilevel evolutionary algorithm based on Quadratic Approximations. , 2014, , .		50
140	Data mining methods for knowledge discovery in multi-objective optimization: Part B - New developments and applications. Expert Systems With Applications, 2017, 70, 119-138.	4.4	50
141	Three-dimensional offline path planning for UAVs using multiobjective evolutionary algorithms. , 2007, , .		49
142	A dual-population paradigm for evolutionary multiobjective optimization. Information Sciences, 2015, 309, 50-72.	4.0	49
143	Multimodal Optimization by Covariance Matrix Self-Adaptation Evolution Strategy with Repelling Subpopulations. Evolutionary Computation, 2017, 25, 439-471.	2.3	49
144	Using Karush-Kuhn-Tucker proximity measure for solving bilevel optimization problems. Swarm and Evolutionary Computation, 2019, 44, 496-510.	4.5	49

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145	Running Time Analysis of Multi-objective Evolutionary Algorithms on a Simple Discrete Optimization Problem. Lecture Notes in Computer Science, 2002, , 44-53.	1.0	49
146	Optimal design of an ammonia synthesis reactor using genetic algorithms. Computers and Chemical Engineering, 1997, 21, 87-92.	2.0	48
147	Optimization of the size of a solar thermal electricity plant by means of genetic algorithms. Renewable Energy, 2011, 36, 3146-3153.	4.3	48
148	A bi-objective constrained optimization algorithm using a hybrid evolutionary and penalty function approach. Engineering Optimization, 2013, 45, 503-527.	1.5	48
149	Multi-Objective Evolutionary Algorithms. , 2015, , 995-1015.		48
150	Hybrid evolutionary multi-objective optimization and analysis of machining operations. Engineering Optimization, 2012, 44, 685-706.	1.5	47
151	Simultaneous topology, shape and size optimization of truss structures by fully stressed design based on evolution strategy. Engineering Optimization, 2015, 47, 1063-1084.	1.5	47
152	A Population-Based, Steady-State Procedure for Real-Parameter Optimization. , 0, , .		46
153	Towards estimating nadir objective vector using evolutionary approaches. , 2006, , .		46
154	An interactive evolutionary multi-objective optimization algorithm with a limited number of decision maker calls. European Journal of Operational Research, 2014, 233, 674-688.	3.5	46
155	Evolutionary Multi-Objective Optimization Algorithm for Community Detection in Complex Social Networks. SN Computer Science, 2021, 2, 1.	2.3	46
156	Solving Bilevel Multicriterion Optimization Problems With Lower Level Decision Uncertainty. IEEE Transactions on Evolutionary Computation, 2016, 20, 199-217.	7.5	45
157	Parallelizing multi-objective evolutionary algorithms: cone separation. , 0, , .		44
158	A Local Search Based Evolutionary Multi-objective Optimization Approach for Fast and Accurate Convergence. Lecture Notes in Computer Science, 2008, , 815-824.	1.0	44
159	A fast and accurate solution of constrained optimization problems using a hybrid bi-objective and penalty function approach. , 2010, , .		44
160	Optimal Scheduling of Casting Sequence Using Genetic Algorithms. Materials and Manufacturing Processes, 2003, 18, 409-432.	2.7	43
161	AMGA. , 2008, , .		43
162	An improved fully stressed design evolution strategy for layout optimization of truss structures. Computers and Structures, 2016, 164, 127-144.	2.4	43

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163	A population-based fast algorithm for a billion-dimensional resource allocation problem with integer variables. European Journal of Operational Research, 2017, 261, 460-474.	3.5	43
164	3D-RadVis: Visualization of Pareto front in many-objective optimization. , 2016, , .		42
165	Multi-view refactoring of class and activity diagrams using a multi-objective evolutionary algorithm. Software Quality Journal, 2017, 25, 473-501.	1.4	41
166	A multi-objective approach to water and nutrient efficiency for sustainable agricultural intensification. Agricultural Systems, 2019, 173, 289-302.	3.2	41
167	An evolutionary algorithm for constrained multi-objective optimization. , 0, , .		40
168	Multiphase Balance of Diversity and Convergence in Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 503-513.	7.5	40
169	Parallelization of binary and real-coded genetic algorithms on GPU using CUDA. , 2010, , .		39
170	Domain-specific initial population strategy for compliant mechanisms using customized genetic algorithm. Structural and Multidisciplinary Optimization, 2011, 43, 541-554.	1.7	39
171	A robust multi-objective approach to balance severity and importance of refactoring opportunities. Empirical Software Engineering, 2017, 22, 894-927.	3.0	39
172	Multi-objective code-smells detection using good and bad design examples. Software Quality Journal, 2017, 25, 529-552.	1.4	39
173	Reference Point Based NSGA-III for Preferred Solutions. , 2018, , .		39
174	Generating Well-Spaced Points on a Unit Simplex for Evolutionary Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 48-60.	7.5	39
175	Optimal Strategies of the Iterated Prisoner's Dilemma Problem for Multiple Conflicting Objectives. IEEE Transactions on Evolutionary Computation, 2009, 13, 554-565.	7.5	38
176	A genetic algorithm based augmented Lagrangian method for constrained optimization. Computational Optimization and Applications, 2012, 53, 869-902.	0.9	38
177	Enhancing performance of particle swarm optimization through an algorithmic link with genetic algorithms. Computational Optimization and Applications, 2014, 57, 761-794.	0.9	38
178	Investigating the Normalization Procedure of NSGA-III. Lecture Notes in Computer Science, 2019, , 229-240.	1.0	38
179	Solving goal programming problems using multi-objective genetic algorithms. , 0, , .		37
180	Searching under Multi-evolutionary Pressures. Lecture Notes in Computer Science, 2003, , 391-404.	1.0	37

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181	Improving the performance of genetic algorithms for land-use allocation problems. International Journal of Geographical Information Science, 2018, 32, 907-930.	2.2	36
182	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. Applied Soft Computing Journal, 2020, 93, 106349.	4.1	36
183	Does Preference Always Help? A Holistic Study on Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. IEEE Transactions on Evolutionary Computation, 2020, 24, 1078-1096.	7.5	36
184	Multiobjective Placement of Electronic Components Using Evolutionary Algorithms. IEEE Transactions on Components and Packaging Technologies, 2004, 27, 480-492.	1.4	35
185	Finding multiple solutions for multimodal optimization problems using a multi-objective evolutionary approach. , 2010, , .		35
186	Approximating a multi-dimensional Pareto front for a land use management problem: A modified MOEA with an epigenetic silencing metaphor. , 2012, , .		35
187	An Optimality Theory-Based Proximity Measure for Set-Based Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2016, 20, 515-528.	7.5	34
188	MUXConv: Information Multiplexing in Convolutional Neural Networks. , 2020, , .		34
189	Scheduling by NSGA-II: Review and Bibliometric Analysis. Processes, 2022, 10, 98.	1.3	34
190	Feasibility preserving constraint-handling strategies for real parameter evolutionary optimization. Computational Optimization and Applications, 2015, 62, 851-890.	0.9	33
191	Bilevel optimization based on iterative approximation of multiple mappings. Journal of Heuristics, 2020, 26, 151-185.	1.1	33
192	Performance assessment of the hybrid Archive-based Micro Genetic Algorithm (AMGA) on the CEC09 test problems. , 2009, , .		32
193	Using objective reduction and interactive procedure to handle many-objective optimization problems. Applied Soft Computing Journal, 2013, 13, 415-427.	4.1	32
194	Breaking the Billion-Variable Barrier in Real-World Optimization Using a Customized Evolutionary Algorithm. , 2016, , .		32
195	Time Scheduling of Transit Systems With Transfer Considerations Using Genetic Algorithms. Evolutionary Computation, 1998, 6, 1-24.	2.3	31
196	Comparing Classical Generating Methods with an Evolutionary Multi-objective Optimization Method. Lecture Notes in Computer Science, 2005, , 311-325.	1.0	31
197	Improving convergence of evolutionary multi-objective optimization with local search: a concurrent-hybrid algorithm. Natural Computing, 2011, 10, 1407-1430.	1.8	31
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199	Settlement response of a multilayer geosynthetic-reinforced granular fillâ€"soft soil system. Geosynthetics International, 2005, 12, 288-298.	1.5	30
200	Reliability-Based Multi-objective Optimization Using Evolutionary Algorithms. , 2007, , 66-80.		30
201	A bilevel optimization approach to automated parameter tuning. , 2014, , .		30
202	A hybrid multi-objective optimization procedure using PCX based NSGA-II and sequential quadratic programming. , 2007, , .		29
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