

Carlos A Coello Coello

List of Publications by Year in descending order

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491
papers

30,222
citations

20759

60
h-index

7136

153
g-index

508
all docs

508
docs citations

508
times ranked

13966
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fuzzy Decomposition-Based Multi/Many-Objective Evolutionary Algorithm. IEEE Transactions on Cybernetics, 2022, 52, 3495-3509.	6.2	22
2	An Ensemble Surrogate-Based Framework for Expensive Multiobjective Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 631-645.	7.5	19
3	Enhancing Robustness and Resilience of Multiplex Networks Against Node-Community Cascading Failures. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3808-3821.	5.9	11
4	AdaSwarm: Augmenting Gradient-Based Optimizers in Deep Learning With Swarm Intelligence. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 329-340.	3.4	15
5	Uniform mixture design via evolutionary multi-objective optimization. Swarm and Evolutionary Computation, 2022, 68, 100979.	4.5	6
6	Pro-Reactive Approach for Project Scheduling Under Unpredictable Disruptions. IEEE Transactions on Cybernetics, 2022, 52, 11299-11312.	6.2	2
7	SNEGAN: Signed Network Embedding by Using Generative Adversarial Nets. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 136-149.	3.4	8
8	Static and Dynamic Multimodal Optimization by Improved Covariance Matrix Self-Adaptation Evolution Strategy With Repelling Subpopulations. IEEE Transactions on Evolutionary Computation, 2022, 26, 527-541.	7.5	8
9	A Self-Guided Reference Vector Strategy for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2022, 52, 1164-1178.	6.2	25
10	An Overall Characterization of the Project Portfolio Optimization Problem and an Approach Based on Evolutionary Algorithms to Address It. Adaptation, Learning, and Optimization, 2022, , 65-88.	0.5	1
11	Many-objective land use planning using a hypercube-based NSGA-III algorithm. Transactions in GIS, 2022, 26, 609-644.	1.0	4
12	Preference incorporation into many-objective optimization: An Ant colony algorithm based on interval outranking. Swarm and Evolutionary Computation, 2022, 69, 101024.	4.5	14
13	Multi-objective Ant Colony Optimization: An Updated Review of Approaches and Applications. Intelligent Systems Reference Library, 2022, , 1-32.	1.0	1
14	Multiple source transfer learning for dynamic multiobjective optimization. Information Sciences, 2022, 607, 739-757.	4.0	15
15	Multimodal Multiobjective Evolutionary Optimization With Dual Clustering in Decision and Objective Spaces. IEEE Transactions on Evolutionary Computation, 2021, 25, 130-144.	7.5	78
16	Decomposition-based multiobjective optimization with bicriteria assisted adaptive operator selection. Swarm and Evolutionary Computation, 2021, 60, 100790.	4.5	11
17	A parallel naive approach for non-dominated sorting: a theoretical study considering PRAM CREW model. Soft Computing, 2021, 25, 73-84.	2.1	1
18	An Elite Gene Guided Reproduction Operator for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2021, 51, 765-778.	6.2	15

#	ARTICLE	IF	CITATIONS
19	The Importance of Diversity in Multi-objective Evolutionary Algorithms. Algorithms for Intelligent Systems, 2021, , 291-298.	0.5	0
20	Multi-Objective Evolutionary Algorithms: Past, Present, and Future. Springer Optimization and Its Applications, 2021, , 137-162.	0.6	2
21	Adaptive Multilevel Prediction Method for Dynamic Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 463-477.	7.5	10
22	An Ensemble of Scalarizing Functions and Weight Vectors for Evolutionary Multi-Objective Optimization. , 2021, , .		0
23	An Empirical Study on the Use of the S-energy Performance Indicator in Mating Restriction Schemes for Multi-Objective Optimizers. , 2021, , .		1
24	Hypervolume by Slicing Objective Algorithm: An Improved Version. , 2021, , .		0
25	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. Swarm and Evolutionary Computation, 2021, 64, 100888.	4.5	154
26	On the Effect of the Cooperation of Indicator-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2021, 25, 681-695.	7.5	19
27	A Novel Parametric benchmark generator for dynamic multimodal optimization. Swarm and Evolutionary Computation, 2021, 65, 100924.	4.5	5
28	Parallel Multi-Objective Evolutionary Algorithms: A Comprehensive Survey. Swarm and Evolutionary Computation, 2021, 67, 100960.	4.5	19
29	COARSE-EMOA: An indicator-based evolutionary algorithm for solving equality constrained multi-objective optimization problems. Swarm and Evolutionary Computation, 2021, 67, 100983.	4.5	11
30	An Overview of Pair-Potential Functions for Multi-objective Optimization. Lecture Notes in Computer Science, 2021, , 401-412.	1.0	4
31	The Influence of Swarm Topologies in Many-Objective Optimization Problems. Lecture Notes in Computer Science, 2021, , 387-398.	1.0	0
32	Indicator-based Multi-objective Evolutionary Algorithms. ACM Computing Surveys, 2021, 53, 1-35.	16.1	89
33	VSD-MOEA: A Dominance-Based Multi-Objective Evolutionary Algorithm with Explicit Variable Space Diversity Management. Evolutionary Computation, 2021, , 1-24.	2.3	1
34	An Ensemble of S-energy Based Mating Restrictions for Multi-Objective Evolutionary Algorithms. , 2021, , .		0
35	A Parallel Island Model for Hypervolume-Based Many-Objective Optimization. Studies in Computational Intelligence, 2020, , 247-273.	0.7	0
36	Dynamic urban land-use change management using multi-objective evolutionary algorithms. Soft Computing, 2020, 24, 4165-4190.	2.1	16

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37	Evolutionary multiobjective optimization: open research areas and some challenges lying ahead. <i>Complex & Intelligent Systems</i> , 2020, 6, 221-236.	4.0	99
38	Cost-Aware Robust Control of Signed Networks by Using a Memetic Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 4430-4443.	6.2	19
39	Approximating Complex Pareto Fronts With Predefined Normal-Boundary Intersection Directions. <i>IEEE Transactions on Evolutionary Computation</i> , 2020, 24, 809-823.	7.5	24
40	Evolutionary Black-Box Topology Optimization: Challenges and Promises. <i>IEEE Transactions on Evolutionary Computation</i> , 2020, 24, 613-633.	7.5	20
41	Riesz s-energy-based Reference Sets for Multi-Objective optimization. , 2020, , .		12
42	A spatial land-use planning support system based on game theory. <i>Land Use Policy</i> , 2020, 99, 105013.	2.5	28
43	A Hybrid Leader Selection Strategy for Many-Objective Particle Swarm Optimization. <i>IEEE Access</i> , 2020, 8, 189527-189545.	2.6	17
44	Coevolutionary Operations for Large Scale Multi-objective Optimization. , 2020, , .		10
45	Evolutionary approach for large-Scale mine scheduling. <i>Information Sciences</i> , 2020, 523, 77-90.	4.0	11
46	Hybrid evolutionary multi-objective optimisation using outranking-based ordinal classification methods. <i>Swarm and Evolutionary Computation</i> , 2020, 54, 100652.	4.5	11
47	Using evolutionary computation to infer the decision maker's preference model in presence of imperfect knowledge: A case study in portfolio optimization. <i>Swarm and Evolutionary Computation</i> , 2020, 54, 100648.	4.5	16
48	An Ensemble Indicator-Based Density Estimator for Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2020, , 201-214.	1.0	4
49	A Study of Swarm Topologies and Their Influence on the Performance of Multi-Objective Particle Swarm Optimizers. <i>Lecture Notes in Computer Science</i> , 2020, , 285-298.	1.0	2
50	A SHADE-Based Algorithm for Large Scale Global Optimization. <i>Lecture Notes in Computer Science</i> , 2020, , 650-663.	1.0	5
51	Cooperative Co-Evolutionary Genetic Programming for High Dimensional Problems. <i>Lecture Notes in Computer Science</i> , 2020, , 48-62.	1.0	6
52	Generation of New Scalarizing Functions Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2020, , 3-17.	1.0	3
53	A Review of Features and Limitations of Existing Scalable Multiobjective Test Suites. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 130-142.	7.5	42
54	A Clustering-Based Evolutionary Algorithm for Many-Objective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 391-405.	7.5	91

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55	Parallel Best Order Sort for Non-dominated Sorting: A Theoretical Study Considering the PRAM-CREW Model. , 2019, , .		1
56	On the Cooperation of Multiple Indicator-based Multi-Objective Evolutionary Algorithms. , 2019, , .		7
57	A Simple and Effective Termination Condition for Both Single- and Multi-Objective Evolutionary Algorithms. , 2019, , .		1
58	Operational decomposition for large scale multi-objective optimization problems. , 2019, , .		14
59	Divide-and-conquer based non-dominated sorting with Reduced Comparisons. Swarm and Evolutionary Computation, 2019, 51, 100580.	4.5	2
60	Evolutionary Algorithm for Project Scheduling under Irregular Resource Changes. , 2019, , .		4
61	An Approach for Non-domination Level Update Problem in Steady-State Evolutionary Algorithms With Parallelism. , 2019, , .		1
62	Convergence and diversity analysis of indicator-based multi-objective evolutionary algorithms. , 2019, , .		7
63	The g^l -dominance Relation for Preference-Based Evolutionary Multi-Objective Optimization. , 2019, , .		7
64	Constraint-handling techniques used with evolutionary algorithms. , 2019, , .		3
65	On the construction of pareto-compliant quality indicators. , 2019, , .		9
66	A novel multi-objective immune algorithm with a decomposition-based clonal selection. Applied Soft Computing Journal, 2019, 81, 105490.	4.1	28
67	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
68	A novel multi-objective evolutionary algorithm with dynamic decomposition strategy. Swarm and Evolutionary Computation, 2019, 48, 182-200.	4.5	26
69	A Co-Evolutionary Scheme for Multi-Objective Evolutionary Algorithms Based on ϵ -Dominance. IEEE Access, 2019, 7, 18267-18283.	2.6	10
70	Parallelism in divide-and-conquer non-dominated sorting: a theoretical study considering the PRAM-CREW model. Journal of Heuristics, 2019, 25, 455-483.	1.1	3
71	A novel approach to select the best portfolio considering the preferences of the decision maker. Swarm and Evolutionary Computation, 2019, 46, 140-153.	4.5	23
72	Evolutionary-based tailoring of synthetic instances for the Knapsack problem. Soft Computing, 2019, 23, 12711-12728.	2.1	19

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73	A hybridized angle-encouragement-based decomposition approach for many-objective optimization problems. <i>Applied Soft Computing Journal</i> , 2019, 78, 355-372.	4.1	15
74	Reliable Link Inference for Network Data With Community Structures. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3347-3361.	6.2	21
75	Handling uncertainty through confidence intervals in portfolio optimization. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 774-787.	4.5	21
76	A divide-and-conquer based efficient non-dominated sorting approach. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 748-773.	4.5	14
77	An Effective Ensemble Framework for Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 645-659.	7.5	26
78	Multi-method based algorithm for multi-objective problems under uncertainty. <i>Information Sciences</i> , 2019, 481, 81-109.	4.0	12
79	Fuzzy Rule-Based Design of Evolutionary Algorithm for Optimization. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 301-314.	6.2	19
80	CRI-EMOA: A Pareto-Front Shape Invariant Evolutionary Multi-objective Algorithm. <i>Lecture Notes in Computer Science</i> , 2019, , 307-318.	1.0	10
81	Evolutionary many-objective optimization based on linear assignment problem transformations. <i>Soft Computing</i> , 2018, 22, 5491-5512.	2.1	9
82	Enhancing Selection Hyper-Heuristics via Feature Transformations. <i>IEEE Computational Intelligence Magazine</i> , 2018, 13, 30-41.	3.4	17
83	MC2ESVM: Multiclass Classification Based on Cooperative Evolution of Support Vector Machines. <i>IEEE Computational Intelligence Magazine</i> , 2018, 13, 18-29.	3.4	22
84	Particle Swarm Optimization With a Balanceable Fitness Estimation for Many-Objective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 32-46.	7.5	202
85	Finding short and implementation-friendly addition chains with evolutionary algorithms. <i>Journal of Heuristics</i> , 2018, 24, 457-481.	1.1	5
86	Coevolutionary Multiobjective Evolutionary Algorithms: Survey of the State-of-the-Art. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 851-865.	7.5	139
87	A Diversity-Enhanced Resource Allocation Strategy for Decomposition-Based Multiobjective Evolutionary Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 2388-2401.	6.2	35
88	An adaptive immune-inspired multi-objective algorithm with multiple differential evolution strategies. <i>Information Sciences</i> , 2018, 430-431, 46-64.	4.0	53
89	Adaptation of operators and continuous control parameters in differential evolution for constrained optimization. <i>Soft Computing</i> , 2018, 22, 6595-6616.	2.1	18
90	Studying the Effect of Robustness Measures in Offline Parameter Tuning for Estimating the Performance of MOEA/D. , 2018, , .		1

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91	Multiobjective Personalized Recommendation Algorithm Using Extreme Point Guided Evolutionary Computation. Complexity, 2018, 2018, 1-18.	0.9	21
92	An Adaptive Recombination-Based Extension of the iMOACO<inf>R</inf> Algorithm. , 2018, , .		0
93	Collaborative and Adaptive Strategies of Different Scalarizing Functions in MOEA/D. , 2018, , .		6
94	P-ENS: Parallelism in Efficient Non-Dominated Sorting. , 2018, , .		2
95	Multi-objective Optimization. , 2018, , 177-204.		5
96	A Cooperative Opposite-Inspired Learning Strategy for Ant-Based Algorithms. Lecture Notes in Computer Science, 2018, , 317-324.	1.0	3
97	Towards a More General Many-objective Evolutionary Optimizer. Lecture Notes in Computer Science, 2018, , 335-346.	1.0	6
98	Use of Reference Point Sets in a Decomposition-Based Multi-Objective Evolutionary Algorithm. Lecture Notes in Computer Science, 2018, , 372-383.	1.0	0
99	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. Lecture Notes in Computer Science, 2018, , 298-310.	1.0	5
100	Cooperative multi-objective evolutionary support vector machines for multiclass problems. , 2018, , .		2
101	An improved version of a reference-based multi-objective evolutionary algorithm based on IGD ⁺ . , 2018, , .		5
102	Advances in Evolutionary Multi-objective Optimization. Swarm and Evolutionary Computation, 2018, 40, 155-157.	4.5	2
103	A Multiobjective Teaching-Learning Algorithm for Power Losses Reduction in Power Systems. , 2018, , 505-542.		3
104	Towards a more general many-objective evolutionary optimizer using multi-indicator density estimation. , 2018, , .		1
105	A multi-objective evolutionary hyper-heuristic based on multiple indicator-based density estimators. , 2018, , .		11
106	Studying the effect of techniques to generate reference vectors in many-objective optimization. , 2018, , .		0
107	Constraint-handling techniques used with evolutionary algorithms. , 2018, , .		6
108	GBOS: Generalized Best Order Sort algorithm for non-dominated sorting. Swarm and Evolutionary Computation, 2018, 43, 244-264.	4.5	17

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109	Multi-objective Optimization. , 2018, , 1-28.		6
110	Tailoring Instances of the 1D Bin Packing Problem for Assessing Strengths and Weaknesses of Its Solvers. Lecture Notes in Computer Science, 2018, , 373-384.	1.0	7
111	An alternative hypervolume-based selection mechanism for multi-objective evolutionary algorithms. Soft Computing, 2017, 21, 861-884.	2.1	17
112	Comparison of metamodeling techniques in evolutionary algorithms. Soft Computing, 2017, 21, 5647-5663.	2.1	65
113	A new indicator-based many-objective ant colony optimizer for continuous search spaces. Swarm Intelligence, 2017, 11, 71-100.	1.3	29
114	An External Archive-Guided Multiobjective Particle Swarm Optimization Algorithm. IEEE Transactions on Cybernetics, 2017, 47, 2794-2808.	6.2	96
115	An Evolutionary Multiobjective Model and Instance Selection for Support Vector Machines With Pareto-Based Ensembles. IEEE Transactions on Evolutionary Computation, 2017, 21, 863-877.	7.5	54
116	Sequence-Based Deterministic Initialization for Evolutionary Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 2911-2923.	6.2	27
117	Constraint-handling techniques used with evolutionary algorithms. , 2017, , .		9
118	A hyper-heuristic of scalarizing functions. , 2017, , .		17
119	Consolidated optimization algorithm for resource-constrained project scheduling problems. Information Sciences, 2017, 418-419, 346-362.	4.0	61
120	Recent Results and Open Problems in Evolutionary Multiobjective Optimization. Lecture Notes in Computer Science, 2017, , 3-21.	1.0	6
121	Improving hyper-heuristic performance through feature transformation. , 2017, , .		7
122	Evolutionary multilabel hyper-heuristic design. , 2017, , .		2
123	Applying automatic heuristic-filtering to improve hyper-heuristic performance. , 2017, , .		2
124	Improving the integration of the IGD+indicator into the selection mechanism of a Multi-objective Evolutionary Algorithm. , 2017, , .		4
125	Incorporation of implicit decision-maker preferences in multi-objective evolutionary optimization using a multi-criteria classification method. Applied Soft Computing Journal, 2017, 50, 48-57.	4.1	31
126	Generalized Differential Evolution for Numerical and Evolutionary Optimization. Studies in Computational Intelligence, 2017, , 253-279.	0.7	7

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127	An Overview of Weighted and Unconstrained Scalarizing Functions. Lecture Notes in Computer Science, 2017, , 499-513.	1.0	25
128	Enhanced multi-operator differential evolution for constrained optimization. , 2016, , .		16
129	Parallel SMS-EMOA for Many-Objective Optimization Problems. , 2016, , .		1
130	IGD ⁺ -EMOA: A multi-objective evolutionary algorithm based on IGD ⁺ . , 2016, , .		29
131	EMOPG+FS: Evolutionary multi-objective prototype generation and feature selection. Intelligent Data Analysis, 2016, 20, S37-S51.	0.4	3
132	Applying exponential weighting moving average control parameter adaptation technique with generalized differential evolution. , 2016, , .		6
133	Indicator-based cooperative coevolution for multi-objective optimization. , 2016, , .		17
134	Evolutionary Algorithms for Finding Short Addition Chains: Going the Distance. Lecture Notes in Computer Science, 2016, , 121-137.	1.0	7
135	Decomposition-Based Approach for Solving Large Scale Multi-objective Problems. Lecture Notes in Computer Science, 2016, , 525-534.	1.0	17
136	A Parallel Version of SMS-EMOA for Many-Objective Optimization Problems. Lecture Notes in Computer Science, 2016, , 568-577.	1.0	9
137	A Multi-Objective Evolutionary Algorithm based on Parallel Coordinates. , 2016, , .		12
138	iMOACO \mathbb{R} : A New Indicator-Based Multi-objective Ant Colony Optimization Algorithm for Continuous Search Spaces. Lecture Notes in Computer Science, 2016, , 389-398.	1.0	1
139	Constraint-Handling Techniques used with Evolutionary Algorithms. , 2016, , .		19
140	\hat{p} -MOEA: A new multi-objective evolutionary algorithm based on the \hat{p} indicator. , 2016, , .		6
141	Adaptive composite operator selection and parameter control for multiobjective evolutionary algorithm. Information Sciences, 2016, 339, 332-352.	4.0	60
142	A Novel Diversity-Based Replacement Strategy for Evolutionary Algorithms. IEEE Transactions on Cybernetics, 2016, 46, 3233-3246.	6.2	36
143	Selection mechanisms based on the maximin fitness function to solve multi-objective optimization problems. Information Sciences, 2016, 332, 131-152.	4.0	14
144	Structural design using multi-objective metaheuristics. Comparative study and application to a real-world problem. Structural and Multidisciplinary Optimization, 2016, 53, 545-566.	1.7	16

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145	Using multi-objective evolutionary algorithms for single-objective constrained and unconstrained optimization. <i>Annals of Operations Research</i> , 2016, 240, 217-250.	2.6	59
146	The directed search method for multi-objective memetic algorithms. <i>Computational Optimization and Applications</i> , 2016, 63, 305-332.	0.9	41
147	MONSS: A multi-objective nonlinear simplex search approach. <i>Engineering Optimization</i> , 2016, 48, 16-38.	1.5	13
148	Distributed Multi-Objective Metaheuristics for Real-World Structural Optimization Problems. <i>Computer Journal</i> , 2016, 59, 777-792.	1.5	10
149	Limiting the Velocity in the Particle Swarm Optimization Algorithm. <i>Computacion Y Sistemas</i> , 2016, 20, .	0.2	11
150	A Parallel Multi-objective Memetic Algorithm Based on the IGD+ Indicator. <i>Lecture Notes in Computer Science</i> , 2016, , 473-482.	1.0	0
151	On the low-discrepancy sequences and their use in MOEA/D for high-dimensional objective spaces. , 2015, , .		15
152	Evolutionary Many-Objective Optimization Based on Kuhn-Munkresâ€™ Algorithm. <i>Lecture Notes in Computer Science</i> , 2015, , 3-17.	1.0	15
153	Many-Objective Problems: Challenges and Methods. , 2015, , 1033-1046.		10
154	GDE-MOEA: A new MOEA based on the generational distance indicator and ε-dominance. , 2015, , .		12
155	A Hybrid Evolutionary Immune Algorithm for Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2015, , 1-1.	7.5	28
156	A non-cooperative game for faster convergence in cooperative coevolution for multi-objective optimization. , 2015, , .		6
157	Multi-objective Evolutionary Algorithms in Real-World Applications: Some Recent Results and Current Challenges. <i>Computational Methods in Applied Sciences (Springer)</i> , 2015, , 3-18.	0.1	27
158	Improved Metaheuristic Based on the R2 Indicator for Many-Objective Optimization. , 2015, , .		108
159	Constraint-Handling Techniques used with Evolutionary Algorithms. , 2015, , .		3
160	Improving the vector generation strategy of Differential Evolution for large-scale optimization. <i>Information Sciences</i> , 2015, 323, 106-129.	4.0	39
161	GD-MOEA: A New Multi-Objective Evolutionary Algorithm Based on the Generational Distance Indicator. <i>Lecture Notes in Computer Science</i> , 2015, , 156-170.	1.0	22
162	Particle Swarm Optimization Based on Linear Assignment Problem Transformations. , 2015, , .		2

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163	Algorithms and models for complex natural systems. <i>Natural Computing</i> , 2015, 14, 339-340.	1.8	0
164	Surrogate-assisted multi-objective model selection for support vector machines. <i>Neurocomputing</i> , 2015, 150, 163-172.	3.5	26
165	On the adaptation of the mutation scale factor in differential evolution. <i>Optimization Letters</i> , 2015, 9, 189-198.	0.9	25
166	Use of a multi-objective teaching-learning algorithm for reduction of power losses in a power test system. <i>DYNA (Colombia)</i> , 2014, 81, 196.	0.2	3
167	MOPSOhv: A new hypervolume-based multi-objective particle swarm optimizer. , 2014, , .		23
168	An evolutionary multi-objective approach for prototype generation. , 2014, , .		5
169	A multi-objective evolutionary algorithm based on decomposition for constrained multi-objective optimization. , 2014, , .		30
170	Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. , 2014, , .		43
171	Multiobjective Optimization for Space Mission Design Problems. , 2014, , 1-46.		0
172	Constrained multi-objective aerodynamic shape optimization via swarm intelligence. , 2014, , .		6
173	Multi-objective compact differential evolution. , 2014, , .		5
174	Constraint-handling techniques used with evolutionary algorithms. , 2014, , .		0
175	Memetic Modified Artificial Bee Colony for constrained optimization. , 2014, , .		2
176	MD-MOEA : A new MOEA based on the maximin fitness function and Euclidean distances between solutions. , 2014, , .		4
177	An analysis of the automatic adaptation of the crossover rate in differential evolution. , 2014, , .		7
178	An empirical comparison of two crossover operators in real-coded genetic algorithms for constrained numerical optimization problems. , 2014, , .		3
179	A Survey of Multiobjective Evolutionary Algorithms for Data Mining: Part I. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 4-19.	7.5	319
180	A survey of multi-objective metaheuristics applied to structural optimization. <i>Structural and Multidisciplinary Optimization</i> , 2014, 49, 537-558.	1.7	157

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181	Decomposition-based modern metaheuristic algorithms for multi-objective optimal power flow – A comparative study. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 32, 10-20.	4.3	54
182	Survey of Multiobjective Evolutionary Algorithms for Data Mining: Part II. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 20-35.	7.5	158
183	Multi-objective model type selection. <i>Neurocomputing</i> , 2014, 146, 83-94.	3.5	24
184	Guest Editorial: Special Issue on Advances in Multiobjective Evolutionary Algorithms for Data Mining. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 1-3.	7.5	10
185	Including preferences into a multiobjective evolutionary algorithm to deal with many-objective engineering optimization problems. <i>Information Sciences</i> , 2014, 277, 1-20.	4.0	49
186	A comparative study of variation operators used for evolutionary multi-objective optimization. <i>Information Sciences</i> , 2014, 273, 33-48.	4.0	8
187	Objective space partitioning using conflict information for solving many-objective problems. <i>Information Sciences</i> , 2014, 268, 305-327.	4.0	24
188	Using a Family of Curves to Approximate the Pareto Front of a Multi-Objective Optimization Problem. <i>Lecture Notes in Computer Science</i> , 2014, , 682-691.	1.0	14
189	A More Efficient Selection Scheme in iSMS-EMOA. <i>Lecture Notes in Computer Science</i> , 2014, , 371-380.	1.0	3
190	A hybrid surrogate-based approach for evolutionary multi-objective optimization. , 2013, , .		21
191	Constraint-handling techniques used with evolutionary algorithms. , 2013, , .		1
192	Special issue on evolutionary computing and complex systems. <i>Soft Computing</i> , 2013, 17, 909-912.	2.1	0
193	Dynamic Constrained Optimization with offspring repair based Gravitational Search Algorithm. , 2013, , .		32
194	Reactive Power Handling by a Multi-Objective Teaching Learning Optimizer Based on Decomposition. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 3629-3637.	4.6	24
195	Guest editorial: Special issue – revised selected papers of the LION 5 conference. <i>Annals of Mathematics and Artificial Intelligence</i> , 2013, 68, 195-196.	0.9	0
196	Application of the non-outranked sorting genetic algorithm to public project portfolio selection. <i>Information Sciences</i> , 2013, 228, 131-149.	4.0	49
197	A ranking method based on the R2 indicator for many-objective optimization. , 2013, , .		29
198	Analysis of leader selection strategies in a multi-objective Particle Swarm Optimizer. , 2013, , .		24

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199	An adaptive evolutionary algorithm based on tactical and positional chess problems to adjust the weights of a chess engine. , 2013, , .		0
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