Frank Neumann

List of Publications by Year
in descending order

230 papers	4,286 citations	186209 28 h-index	206029 48 g-index
245 all docs	245 docs citations	245 times ranked	1520 citing authors

#	ARTICLE	IF	CITATIONS
1	Pareto optimization for subset selection with dynamic cost constraints. Artificial Intelligence, 2022, 302, 103597.	3.9	11
2	Run-of-mine stockyard recovery scheduling and optimisation for multiple reclaimers. , 2022, , .		1
3	Single- and multi-objective evolutionary algorithms for the knapsack problem with dynamically changing constraints. Theoretical Computer Science, 2022, 924, 129-147.	0.5	4
4	Coevolutionary Pareto diversity optimization. , 2022, , .		6
5	Niching-based evolutionary diversity optimization for the traveling salesperson problem. , 2022, , .		1
6	On the use of quality diversity algorithms for the traveling thief problem. , 2022, , .		12
7	Improved Runtime Results for Simple Randomised Search Heuristics on Linear Functions with a Uniform Constraint. Algorithmica, 2021, 83, 3209-3237.	1.0	2
8	Feature-Based Diversity Optimization for Problem Instance Classification. Evolutionary Computation, 2021, 29, 107-128.	2.3	18
9	Runtime Performances of Randomized Search Heuristics for the Dynamic Weighted Vertex Cover Problem. Algorithmica, 2021, 83, 906-939.	1.0	5
10	Solving Non-uniform Planted and Filtered Random SAT Formulas Greedily. Lecture Notes in Computer Science, 2021, , 188-206.	1.0	0
11	Modelling and optimization of run-of-mine stockpile recovery. , 2021, , .		0
12	Breeding diverse packings for the knapsack problem by means of diversity-tailored evolutionary algorithms. , 2021, , .		11
13	Entropy-based evolutionary diversity optimisation for the traveling salesperson problem. , 2021, , .		14
14	Heuristic Strategies for Solving Complex Interacting Large-Scale Stockpile Blending Problems. , 2021, , .		1
15	Diversifying greedy sampling and evolutionary diversity optimisation for constrained monotone submodular functions. , 2021, , .		15
16	Evolutionary diversity optimization and the minimum spanning tree problem. , 2021, , .		14
17	Runtime analysis of RLS and the (1+1) EA for the chance-constrained knapsack problem with correlated uniform weights. , 2021, , .		9
18	Analysis of evolutionary diversity optimisation for permutation problems. , 2021, , .		13

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19	Time Complexity Analysis of Randomized Search Heuristics for the Dynamic Graph Coloring Problem. Algorithmica, 2021, 83, 3148-3179.	1.0	2
20	Evolutionary submodular optimisation. , 2021, , .		0
21	Computing diverse sets of high quality TSP tours by EAX-based evolutionary diversity optimisation. , 2021, , .		6
22	Time complexity analysis of evolutionary algorithms for 2-hop (1,2)-minimum spanning tree problem. Theoretical Computer Science, 2021, 893, 159-175.	0.5	3
23	A Survey on Recent Progress in the Theory of Evolutionary Algorithms for Discrete Optimization. ACM Transactions on Evolutionary Learning, 2021, 1, 1-43.	2.7	13
24	Amplifying influence through coordinated behaviour in social networks. Social Network Analysis and Mining, 2021, 11, 111.	1.9	18
25	Analysis of the (1â€¯+â€¯1) EA on subclasses of linear functions under uniform and linear constraints. Theoretical Computer Science, 2020, 832, 3-19.	0.5	13
26	Design and analysis of diversity-based parent selection schemes for speeding up evolutionary multi-objective optimisation. Theoretical Computer Science, 2020, 832, 123-142.	0.5	13
27	Robust Fitting in Computer Vision: Easy or Hard?. International Journal of Computer Vision, 2020, 128, 575-587.	10.9	20
28	Runtime analysis of RLS and (1â€¯+â€¯1) EA for the dynamic weighted vertex cover problem. Theoretical Computer Science, 2020, 832, 20-41.	0.5	4
29	Evolutionary Image Transition and Painting Using Random Walks. Evolutionary Computation, 2020, 28, 643-675.	2.3	8
30	The Dynamic Travelling Thief Problem: Benchmarks and Performance of Evolutionary Algorithms. Communications in Computer and Information Science, 2020, , 220-228.	0.4	3
31	Who's in the Gang? Revealing Coordinating Communities in Social Media. , 2020, , .		9
32	Evolving diverse sets of tours for the travelling salesperson problem. , 2020, , .		19
33	Specific single- and multi-objective evolutionary algorithms for the chance-constrained knapsack problem. , 2020, , .		13
34	The node weight dependent traveling salesperson problem. , 2020, , .		4
35	Optimising Tours for the Weighted Traveling Salesperson Problem and the Traveling Thief Problem: A Structural Comparison of Solutions. Lecture Notes in Computer Science, 2020, , 346-359.	1.0	1
36	Runtime analysis of evolutionary algorithms with biased mutation for the multi-objective minimum spanning tree problem. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
37	More effective randomized search heuristics for graph coloring through dynamic optimization. , 2020, , .		1
38	Using Neural Networks and Diversifying Differential Evolution for Dynamic Optimisation. , 2020, , .		0
39	Human Interactive EEG-Based Evolutionary Image Animation. , 2020, , .		0
40	Maximizing Submodular or Monotone Functions Under Partition Matroid Constraints by Multi-objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2020, , 588-603.	1.0	2
41	Reoptimization Time Analysis of Evolutionary Algorithms on Linear Functions Under Dynamic Uniform Constraints. Algorithmica, 2019, 81, 828-857.	1.0	15
42	Theoretical Analysis of Local Search and Simple Evolutionary Algorithms for the Generalized Travelling Salesperson Problem. Evolutionary Computation, 2019, 27, 525-558.	2.3	1
43	On the benefits of biased edge-exchange mutation for the multi-criteria spanning tree problem. , 2019, , .		3
44	Runtime analysis of evolutionary algorithms for the depth restricted (1,2)-minimum spanning tree problem. , 2019, , .		1
45	Evolutionary computation for digital art. , 2019, , .		1
46	Fast re-optimization via structural diversity. , 2019, , .		9
47	Runtime analysis of randomized search heuristics for dynamic graph coloring. , 2019, , .		9
48	Runtime analysis of the (1 + 1) evolutionary algorithm for the chance-constrained knapsack problem. , 2019, , .		9
49	Evolving diverse TSP instances by means of novel and creative mutation operators. , 2019, , .		20
50	Improved runtime results for simple randomised search heuristics on linear functions with a uniform constraint. , 2019, , .		5
51	Analysis of baseline evolutionary algorithms for the packing while travelling problem. , 2019, , .		2
52	Evolutionary algorithms for the chance-constrained knapsack problem. , 2019, , .		15
53	Parameterized Analysis of Multiobjective Evolutionary Algorithms and the Weighted Vertex Cover Problem. Evolutionary Computation, 2019, 27, 559-575.	2.3	7
54	A Fully Polynomial Time Approximation Scheme for Packing While Traveling. Lecture Notes in Computer Science, 2019, , 59-72.	1.0	6

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55	Pareto Optimization for Subset Selection with Dynamic Cost Constraints. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 2354-2361.	3.6	18
56	Evolutionary Computation for Multicomponent Problems: Opportunities and Future Directions. Management and Industrial Engineering, 2019, , 13-30.	0.3	15
57	Automated Algorithm Selection: Survey and Perspectives. Evolutionary Computation, 2019, 27, 3-45.	2.3	219
58	Evolutionary diversity optimization using multi-objective indicators. , 2019, , .		29
59	On the Use of Diversity Mechanisms in Dynamic Constrained Continuous Optimization. Lecture Notes in Computer Science, 2019, , 644-657.	1.0	1
60	Runtime Analysis of Evolutionary Multi-objective Algorithms Optimising the Degree and Diameter of Spanning Trees. Lecture Notes in Computer Science, 2019, , 504-515.	1.0	2
61	Runtime analysis of randomized search heuristics for the dynamic weighted vertex cover problem. , 2018, , .		5
62	Randomized greedy algorithms for covering problems. , 2018, , .		6
63	A Comparison of Constraint Handling Techniques for Dynamic Constrained Optimization Problems. , 2018, , .		11
64	On the Use of Colour-Based Segmentation in Evolutionary Image Composition. , 2018, , .		2
65	Discrepancy-based evolutionary diversity optimization. , 2018, , .		36
66	Evolutionary computation plus dynamic programming for the bi-objective travelling thief problem. , 2018, , .		16
67	Evolutionary computation for digital art. , 2018, , .		2
68	Robust Fitting in Computer Vision: Easy or Hard?. Lecture Notes in Computer Science, 2018, , 715-730.	1.0	26
69	On the Performance of Baseline Evolutionary Algorithms on the Dynamic Knapsack Problem. Lecture Notes in Computer Science, 2018, , 158-169.	1.0	13
70	A Probabilistic Tree-Based Representation for Non-convex Minimum Cost Flow Problems. Lecture Notes in Computer Science, 2018, , 69-81.	1.0	2
71	Runtime Analysis of Evolutionary Algorithms for the Knapsack Problem with Favorably Correlated Weights. Lecture Notes in Computer Science, 2018, , 141-152.	1.0	2
72	On the Use of Repair Methods in Differential Evolution for Dynamic Constrained Optimization. Lecture Notes in Computer Science, 2018, , 832-847.	1.0	9

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73	Ahura: A Heuristic-Based Racer for the Open Racing Car Simulator. IEEE Transactions on Games, 2017, 9, 290-304.	1.7	6
74	Expected Fitness Gains of Randomized Search Heuristics for the Traveling Salesperson Problem. Evolutionary Computation, 2017, 25, 673-705.	2.3	17
75	Analysis of the (1+1) EA on Subclasses of Linear Functions under Uniform and Linear Constraints. , 2017, , .		7
76	On the Use of the Dual Formulation for Minimum Weighted Vertex Cover in Evolutionary Algorithms. , 2017, , .		8
77	Speeding up evolutionary multi-objective optimisation through diversity-based parent selection. , 2017, , .		6
78	Evolutionary image composition using feature covariance matrices. , 2017, , .		12
79	The Packing While Traveling Problem. European Journal of Operational Research, 2017, 258, 424-439.	3.5	13
80	Time Complexity Analysis of Evolutionary Algorithms on Random Satisfiable k-CNF Formulas. Algorithmica, 2017, 78, 561-586.	1.0	16
81	Improved runtime analysis of RLS and (1+1) EA for the dynamic vertex cover problem. , 2017, , .		4
82	Parameterized analysis of bio-inspired computing. , 2017, , .		0
83	Evolutionary Image Transition Using Random Walks. Lecture Notes in Computer Science, 2017, , 230-245.	1.0	14
84	Exact Approaches for the Travelling ThiefÂProblem. Lecture Notes in Computer Science, 2017, , 110-121.	1.0	20
85	Reoptimization times of evolutionary algorithms on linear functions under dynamic uniform constraints. , 2017, , .		11
86	Scaling up Local Search for Minimum Vertex Cover in Large Graphs by Parallel Kernelization. Lecture Notes in Computer Science, 2017, , 131-143.	1.0	3
87	Fast and Effective Optimisation of Arrays of Submerged Wave Energy Converters. , 2016, , .		17
88	Feature-based algorithm selection for constrained continuous optimisation. , 2016, , .		2
89	Guaranteed Outlier Removal with Mixed Integer Linear Programs. , 2016, , .		30
90	Runtime Analysis of Evolutionary Diversity Maximization for OneMinMax. , 2016, , .		15

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91	On the Impact of the Renting Rate for the Unconstrained Nonlinear Knapsack Problem. , 2016, , .		12
92	Solving hard control problems in voting systems via integer programming. European Journal of Operational Research, 2016, 250, 204-213.	3.5	7
93	A Parameterised Complexity Analysis of Bi-level Optimisation with Evolutionary Algorithms. Evolutionary Computation, 2016, 24, 183-203.	2.3	14
94	Parameterized Analysis of Multi-objective Evolutionary Algorithms and the Weighted Vertex Cover Problem. Lecture Notes in Computer Science, 2016, , 729-739.	1.0	7
95	Feature-Based Diversity Optimization for Problem Instance Classification. Lecture Notes in Computer Science, 2016, , 869-879.	1.0	21
96	The Evolutionary Process of Image Transition in Conjunction with Box and Strip Mutation. Lecture Notes in Computer Science, 2016, , 261-268.	1.0	5
97	Fast Building Block Assembly by Majority Vote Crossover. , 2016, , .		26
98	Analyzing the Effects of Instance Features and Algorithm Parameters for Maxâ€"Min Ant System and the Traveling Salesperson Problem. Frontiers in Robotics and AI, 2015, 2, .	2.0	20
99	Efficient optimization of many objectives by approximation-guided evolution. European Journal of Operational Research, 2015, 243, 465-479.	3.5	24
100	On the Impact of Local Search Operators and Variable Neighbourhood Search for the Generalized Travelling Salesperson Problem. , 2015, , .		2
101	Multiplicative Approximations, Optimal Hypervolume Distributions, and the Choice of the Reference Point. Evolutionary Computation, 2015, 23, 131-159.	2.3	10
102	Runtime Analysis of Evolutionary Diversity Optimization and the Vertex Cover Problem. , 2015, , .		1
103	Improved Runtime Bounds for the (1+1) EA on Random 3-CNF Formulas Based on Fitness-Distance Correlation. , 2015, , .		10
104	Maintaining 2-Approximations for the Dynamic Vertex Cover Problem Using Evolutionary Algorithms. , 2015, , .		20
105	Parameterized Complexity Analysis of Evolutionary Algorithms. , 2015, , .		0
106	Maximizing Submodular Functions under Matroid Constraints by Evolutionary Algorithms. Evolutionary Computation, 2015, 23, 543-558.	2.3	54
107	On the Performance of Different Genetic Programming Approaches for the SORTING Problem. Evolutionary Computation, 2015, 23, 583-609.	2.3	5
108	Population size matters: Rigorous runtime results for maximizing the hypervolume indicator. Theoretical Computer Science, 2015, 561, 24-36.	0.5	13

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109	Packing While Traveling: Mixed Integer Programming for a Class of Nonlinear Knapsack Problems. Lecture Notes in Computer Science, 2015, , 332-346.	1.0	7
110	A Feature-Based Analysis on the Impact of Set of Constraints for $$varepsilon$$ -Constrained Differential Evolution. Lecture Notes in Computer Science, 2015, , 344-355.	1.0	2
111	A Feature-Based Comparison of Evolutionary Computing Techniques for Constrained Continuous Optimisation. Lecture Notes in Computer Science, 2015, , 332-343.	1.0	1
112	Single- and multi-objective genetic programming: New runtime results for sorting. , 2014, , .		2
113	Parameterized complexity analysis of evolutionary algorithms. , 2014, , .		0
114	Parameterized Runtime Analyses of Evolutionary Algorithms for the Planar Euclidean Traveling Salesperson Problem. Evolutionary Computation, 2014, 22, 595-628.	2.3	30
115	Editorial for the Special Issue on Theoretical Foundations of Evolutionary Computation. IEEE Transactions on Evolutionary Computation, 2014, 18, 625-627.	7.5	0
116	A comprehensive benchmark set and heuristics for the traveling thief problem. , 2014, , .		76
117	A Feature-based analysis on the impact of linear constraints for ε-constrained differential evolution. , 2014, , .		4
118	Parameter Prediction Based on Features of Evolved Instances for Ant Colony Optimization and the Traveling Salesperson Problem. Lecture Notes in Computer Science, 2014, , 100-109.	1.0	10
119	The Max problem revisited: The importance of mutation in genetic programming. Theoretical Computer Science, 2014, 545, 94-107.	0.5	10
120	A fixed budget analysis of randomized search heuristics for the traveling salesperson problem. , 2014, , .		7
121	EVOR. , 2014, , .		6
122	Runtime analysis for maximizing population diversity in single-objective optimization. , 2014, , .		11
123	Maximizing Submodular Functions under Matroid Constraints by Multi-objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2014, , 922-931.	1.0	14
124	Runtime Analysis of Evolutionary Algorithms on Randomly Constructed High-Density Satisfiable 3-CNF Formulas. Lecture Notes in Computer Science, 2014, , 942-951.	1.0	8
125	On the Impact of Utility Functions in Interactive Evolutionary Multi-objective Optimization. Lecture Notes in Computer Science, 2014, , 419-430.	1.0	1
126	Weighted preferences in evolutionary multi-objective optimization. International Journal of Machine Learning and Cybernetics, 2013, 4, 139-148.	2.3	19

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127	Fixed-Parameter Evolutionary Algorithms and the Vertex Cover Problem. Algorithmica, 2013, 65, 754-771.	1.0	59
128	The generalized minimum spanning tree problem. , 2013, , .		5
129	A novel feature-based approach to characterize algorithm performance for the traveling salesperson problem. Annals of Mathematics and Artificial Intelligence, 2013, 69, 151-182.	0.9	68
130	Fixed-parameter evolutionary algorithms for the Euclidean Traveling Salesperson problem. , 2013, , .		5
131	Parameterized complexity analysis and more effective construction methods for ACO algorithms and the euclidean traveling salesperson problem. , 2013, , .		4
132	Predicting the energy output of wind farms based on weather data: Important variables and their correlation. Renewable Energy, 2013, 50, 236-243.	4.3	77
133	A fast and effective local search algorithm for optimizing the placement of wind turbines. Renewable Energy, 2013, 51, 64-70.	4.3	88
134	More effective crossover operators for the all-pairs shortest path problem. Theoretical Computer Science, 2013, 471, 12-26.	0.5	31
135	Fast and effective multi-objective optimisation of wind turbine placement. , 2013, , .		23
136	A fast approximation-guided evolutionary multi-objective algorithm. , 2013, , .		51
137	Population size matters. , 2013, , .		1
138	A feature-based comparison of local search and the christofides algorithm for the travelling salesperson problem. , 2013, , .		23
139	Bioinspired computation in combinatorial optimization. , 2013, , .		9
140	Ant colony optimisation and the traveling salesperson problem. , 2013, , .		4
141	The max problem revisited. , 2012, , .		5
142	A parameterized runtime analysis of evolutionary algorithms for MAX-2-SAT. , 2012, , .		4
143	Computational complexity analysis of multi-objective genetic programming. , 2012, , .		18
144	Bioinspired computation in combinatorial optimization. , 2012, , .		9

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145	Optimizing energy output and layout costs for large wind farms using particle swarm optimization. , 2012, , .		22
146	An adaptive data structure for evolutionary multi-objective algorithms with unbounded archives. , 2012, , .		0
147	Convergence of set-based multi-objective optimization, indicators and deteriorative cycles. Theoretical Computer Science, 2012, 456, 2-17.	0.5	15
148	Editorial to the special issue on â€œTheoretical Foundations of Evolutionary Computationâ€• Theoretical Computer Science, 2012, 425, 2-3.	0.5	0
149	Theoretical analysis of two ACO approaches for the traveling salesman problem. Swarm Intelligence, 2012, 6, 1-21.	1.3	45
150	Optimising Spatial and Tonal Data for Homogeneous Diffusion Inpainting. Lecture Notes in Computer Science, 2012, , 26-37.	1.0	39
151	Experimental Supplements to the Computational Complexity Analysis of Genetic Programming for Problems Modelling Isolated Program Semantics. Lecture Notes in Computer Science, 2012, , 102-112.	1.0	5
152	Parsimony Pressure versus Multi-objective Optimization for Variable Length Representations. Lecture Notes in Computer Science, 2012, , 133-142.	1.0	10
153	A Parameterized Runtime Analysis of Simple Evolutionary Algorithms for Makespan Scheduling. Lecture Notes in Computer Science, 2012, , 52-61.	1.0	19
154	Local Search and the Traveling Salesman Problem: A Feature-Based Characterization of Problem Hardness. Lecture Notes in Computer Science, 2012, , 115-129.	1.0	19
155	Evolutionary algorithms and dynamic programming. Theoretical Computer Science, 2011, 412, 6020-6035.	0.5	17
156	Computing Minimum Cuts by Randomized Search Heuristics. Algorithmica, 2011, 59, 323-342.	1.0	25
157	Runtime analysis of the 1-ANT ant colony optimizer. Theoretical Computer Science, 2011, 412, 1629-1644.	0.5	30
158	Illustration of fairness in evolutionary multi-objective optimization. Theoretical Computer Science, 2011, 412, 1546-1556.	0.5	10
159	On the effectiveness of crossover for migration in parallel evolutionary algorithms. , 2011, , .		28
160	Computational complexity analysis of simple genetic programming on two problems modeling isolated program semantics. , 2011, , .		26
161	PAC learning and genetic programming. , 2011, , .		9
162	Foundations of evolutionary multi-objective optimization. , 2011, , .		0

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163	Velocity Adaptation in Particle Swarm Optimization. Adaptation, Learning, and Optimization, 2011, , 155-173.	0.5	1
164	Computational complexity and evolutionary computation. , 2011, , .		0
165	Simple max-min ant systems and the optimization of linear pseudo-boolean functions. , 2011, , .		19
166	Computational Complexity Analysis of Genetic Programming - Initial Results and Future Directions. Genetic and Evolutionary Computation, 2011, , 113-128.	1.0	5
167	Ant Colony Optimization and the minimum spanning tree problem. Theoretical Computer Science, 2010, 411, 2406-2413.	0.5	55
168	When to use bit-wise neutrality. Natural Computing, 2010, 9, 283-294.	1.8	1
169	Plateaus can be harder in multi-objective optimization. Theoretical Computer Science, 2010, 411, 854-864.	0.5	12
170	Editorial for the Special Issue on Theoretical Aspects of Evolutionary Multi-Objective Optimization. Evolutionary Computation, 2010, 18, 333-334.	2.3	1
171	Ant colony optimization and the minimum cut problem. , 2010, , .		14
172	Foundations of evolutionary multi-objective optimization. , 2010, , .		0
173	A few ants are enough. , 2010, , .		36
174	Approximating Covering Problems by Randomized Search Heuristics Using Multi-Objective Models. Evolutionary Computation, 2010, 18, 617-633.	2.3	90
175	Computational complexity and evolutionary computation. , 2010, , .		0
176	Set-based multi-objective optimization, indicators, and deteriorative cycles. , 2010, , .		5
177	Approximating Pareto-Optimal Sets Using Diversity Strategies in Evolutionary Multi-Objective Optimization. Studies in Computational Intelligence, 2010, , 23-44.	0.7	6
178	Theoretical Properties of Two ACO Approaches for the Traveling Salesman Problem. Lecture Notes in Computer Science, 2010, , 324-335.	1.0	8
179	Optimal Fixed and Adaptive Mutation Rates for the LeadingOnes Problem. , 2010, , 1-10.		54
180	More Effective Crossover Operators for the All-Pairs Shortest Path Problem. , 2010, , 184-193.		3

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181	Fixed Parameter Evolutionary Algorithms and Maximum Leaf Spanning Trees: A Matter of Mutation. , 2010, , 204-213.		15
182	How Crossover Speeds Up Evolutionary Algorithms for the Multi-criteria All-Pairs-Shortest-Path Problem. , 2010, , 667-676.		13
183	Bioinspired Computation in Combinatorial Optimization. Natural Computing Series, 2010, , .	2.2	148
184	Combinatorial Optimization and Computational Complexity. Natural Computing Series, 2010, , 9-19.	2.2	25
185	Evolving Fuzzy Rules: Evaluation of a New Approach. Lecture Notes in Computer Science, 2010, , 250-259.	1.0	0
186	Theoretical analysis of rank-based mutation - combining exploration and exploitation. , 2009, , .		26
187	Computational Complexity of AntÂColonyÂOptimization and Its HybridizationÂwithÂLocalÂSearch. Studies in Computational Intelligence, 2009, , 91-120.	0.7	15
188	Fixed-parameter evolutionary algorithms and the vertex cover problem. , 2009, , .		10
189	Multiplicative approximations and the hypervolume indicator. , 2009, , .		38
190	Analyses of Simple Hybrid Algorithms for the Vertex Cover Problem. Evolutionary Computation, 2009, 17, 3-19.	2.3	37
191	Additive approximations of pareto-optimal sets by evolutionary multi-objective algorithms. , 2009, , .		4
192	Computing single source shortest paths using single-objective fitness. , 2009, , .		27
193	Evolutionary algorithms and dynamic programming. , 2009, , .		7
194	Theoretical analysis of fitness-proportional selection. , 2009, , .		58
195	On the Effects of Adding Objectives to Plateau Functions. IEEE Transactions on Evolutionary Computation, 2009, 13, 591-603.	7.5	69
196	Runtime Analysis of a Simple Ant Colony Optimization Algorithm. Algorithmica, 2009, 54, 243.	1.0	78
197	Comparison of simple diversity mechanisms on plateau functions. Theoretical Computer Science, 2009, 410, 2455-2462.	0.5	16
198	Analysis of different MMAS ACO algorithms onÂunimodal functions and plateaus. Swarm Intelligence, 2009, 3, 35-68.	1.3	78

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199	Particle Swarm Optimization with Velocity Adaptation. , 2009, , .		10
200	Expected runtimes of evolutionary algorithms for the Eulerian cycle problem. Computers and Operations Research, 2008, 35, 2750-2759.	2.4	40
201	Analyzing Hypervolume Indicator Based Algorithms. Lecture Notes in Computer Science, 2008, , 651-660.	1.0	47
202	When to use bit-wise neutrality. , 2008, , .		0
203	Using fast matrix multiplication in bio-inspired computation for complex optimization problems. , 2008, , .		0
204	Rigorous analyses of fitness-proportional selection for optimizing linear functions. , 2008, , .		46
205	Computing minimum cuts by randomized search heuristics. , 2008, , .		9
206	Benefits and drawbacks for the use of epsilon-dominance in evolutionary multi-objective optimization. , 2008, , .		29
207	Rigorous Analyses for the Combination of AntÂColonyÂOptimization and Local Search. Lecture Notes in Computer Science, 2008, , 132-143.	1.0	30
208	Learning Fuzzy Rules with Evolutionary Algorithms â€" An Analytic Approach. Lecture Notes in Computer Science, 2008, , 1051-1060.	1.0	7
209	Approximating Minimum Multicuts by Evolutionary Multi-objective Algorithms. Lecture Notes in Computer Science, 2008, , 72-81.	1.0	16
210	Runtime Analyses for Using Fairness in Evolutionary Multi-Objective Optimization. Lecture Notes in Computer Science, 2008, , 671-680.	1.0	1
211	Multi-objective Problems in Terms of Relational Algebra. , 2008, , 84-98.		0
212	Approximating covering problems by randomized search heuristics using multi-objective models. , 2007, , .		29
213	Do additional objectives make a problem harder?. , 2007, , .		65
214	Rigorous analyses of simple diversity mechanisms. , 2007, , .		21
215	On the runtime analysis of the 1-ANT ACO algorithm. , 2007, , .		35
216	Speeding Up Evolutionary Algorithms through Asymmetric Mutation Operators. Evolutionary Computation, 2007, 15, 401-410.	2.3	39

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217	Computational complexity and evolutionary computation. , 2007, , .		3
218	Plateaus can be harder in multi-objective optimization. , 2007, , .		3
219	A rigorous view on neutrality. , 2007, , .		11
220	On improving approximate solutions by evolutionary algorithms. , 2007, , .		2
221	Expected runtimes of a simple evolutionary algorithm for the multi-objective minimum spanning tree problem. European Journal of Operational Research, 2007, 181, 1620-1629.	3.5	67
222	Randomized local search, evolutionary algorithms, and the minimum spanning tree problem. Theoretical Computer Science, 2007, 378, 32-40.	0.5	192
223	Comparing Variants of MMAS ACO Algorithms on Pseudo-Boolean Functions. , 2007, , 61-75.		9
224	Minimum spanning trees made easier via multi-objective optimization. Natural Computing, 2006, 5, 305-319.	1.8	111
225	Speeding up Approximation Algorithms for NP-Hard Spanning Forest Problems by Multi-objective Optimization. Lecture Notes in Computer Science, 2006, , 745-756.	1.0	2
226	Speeding Up Evolutionary Algorithms Through Restricted Mutation Operators. Lecture Notes in Computer Science, 2006, , 978-987.	1.0	16
227	Relational Implementation of Simple Parallel Evolutionary Algorithms. Lecture Notes in Computer Science, 2006, , 161-172.	1.0	1
228	Minimum spanning trees made easier via multi-objective optimization. , 2005, , .		21
229	RelView â€" An OBDD-Based Computer Algebra System for Relations. Lecture Notes in Computer Science, 2005, , 40-51.	1.0	37
230	Randomized Local Search, Evolutionary Algorithms, and the Minimum Spanning Tree Problem. Lecture Notes in Computer Science, 2004, , 713-724.	1.0	32