

# Christian Blum

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169  
papers

7,209  
citations

26  
h-index

84  
g-index

197  
ext. papers

8,505  
ext. citations

3.9  
avg. IF

6.55  
L-index

#	Paper	IF	Citations
169	Variable Neighborhood Search for the Two-Echelon Electric Vehicle Routing Problem with Time Windows. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1014	2.6	1
168	A Population-Based Iterated Greedy Algorithm for Maximizing Sensor Network Lifetime.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	1
167	Graph search and variable neighborhood search for finding constrained longest common subsequences in artificial and real gene sequences. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 108844	7.5	1
166	Application of A* to the Generalized Constrained Longest Common Subsequence Problem with Many Pattern Strings. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 53-64	0.9	
165	ANTS 2020 Special Issue: Editorial. <i>Swarm Intelligence</i> , <b>2021</b> , 15, 311-313	3	
164	A Greedy Heuristic for Maximizing the Lifetime of Wireless Sensor Networks Based on Disjoint Weighted Dominating Sets. <i>Algorithms</i> , <b>2021</b> , 14, 170	1.8	2
163	Solving the Longest Common Subsequence Problem Concerning Non-Uniform Distributions of Letters in Input Strings. <i>Mathematics</i> , <b>2021</b> , 9, 1515	2.3	0
162	A comparative analysis of two matheuristics by means of merged local optima networks. <i>European Journal of Operational Research</i> , <b>2021</b> , 290, 36-56	5.6	2
161	Solving longest common subsequence problems via a transformation to the maximum clique problem. <i>Computers and Operations Research</i> , <b>2021</b> , 125, 105089	4.6	5
160	An A* search algorithm for the constrained longest common subsequence problem. <i>Information Processing Letters</i> , <b>2021</b> , 166, 106041	0.8	4
159	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 119-130	6.1	5
158	Optimization Techniques and Formal Verification for the Software Design of Boolean Algebra Based Safety-Critical Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	
157	Adding Negative Learning to Ant Colony Optimization: A Comprehensive Study. <i>Mathematics</i> , <b>2021</b> , 9, 361	2.3	7
156	An Improved Greedy Heuristic for the Minimum Positive Influence Dominating Set Problem in Social Networks. <i>Algorithms</i> , <b>2021</b> , 14, 79	1.8	3
155	Search trajectory networks: A tool for analysing and visualising the behaviour of metaheuristics. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 109, 107492	7.5	13
154	Barrakuda: A Hybrid Evolutionary Algorithm for Minimum Capacitated Dominating Set Problem. <i>Mathematics</i> , <b>2020</b> , 8, 1858	2.3	1
153	Solution Merging in Matheuristics for Resource Constrained Job Scheduling. <i>Algorithms</i> , <b>2020</b> , 13, 256	1.8	7

152	A new optimization model for wastewater treatment planning with a temporal component. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 136, 157-168	5.5	0
151	On Solving a Generalized Constrained Longest Common Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 55-70	0.9	2
150	A New Approach for Making Use of Negative Learning in Ant Colony Optimization. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 16-28	0.9	0
149	On the Use of Decision Diagrams for Finding Repetition-Free Longest Common Subsequences. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 134-149	0.9	
148	A Heuristic Approach for Solving the Longest Common Square Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 429-437	0.9	1
147	Search Trajectory Networks of Population-Based Algorithms in Continuous Spaces. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 70-85	0.9	12
146	Finding Longest Common Subsequences: New anytime A* search results. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 95, 106499	7.5	4
145	Minimum common string partition: on solving large-scale problem instances. <i>International Transactions in Operational Research</i> , <b>2020</b> , 27, 91-111	2.9	1
144	Anytime algorithms for the longest common palindromic subsequence problem. <i>Computers and Operations Research</i> , <b>2020</b> , 114, 104827	4.6	5
143	An algorithm based on ant colony optimization for the minimum connected dominating set problem. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 80, 672-686	7.5	18
142	Synergistic team composition: A computational approach to foster diversity in teams. <i>Knowledge-Based Systems</i> , <b>2019</b> , 182, 104799	7.3	10
141	Application of CMSA to the minimum capacitated dominating set problem <b>2019</b> ,		5
140	Job sequencing with one common and multiple secondary resources: An A*/Beam Search based anytime algorithm. <i>Artificial Intelligence</i> , <b>2019</b> , 277, 103173	3.6	1
139	ANTS 2018 special issue: Editorial. <i>Swarm Intelligence</i> , <b>2019</b> , 13, 169-172	3	
138	Generic CP-Supported CMSA for Binary Integer Linear Programs. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 1-15	0.9	
137	A Biased Random Key Genetic Algorithm with Rollout Evaluations for the Resource Constraint Job Scheduling Problem. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 549-560	0.9	4
136	A Beam Search for the Longest Common Subsequence Problem Guided by a Novel Approximate Expected Length Calculation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 154-167	0.9	7
135	Exact and Heuristic Approaches for the Longest Common Palindromic Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 199-214	0.9	

134	Maximising the Net Present Value of Project Schedules Using CMSA and Parallel ACO. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 16-30	0.9	5
133	Metaheuristic Hybrids. <i>Profiles in Operations Research</i> , <b>2019</b> , 385-417	1	7
132	A comprehensive comparison of metaheuristics for the repetition-free longest common subsequence problem. <i>Journal of Heuristics</i> , <b>2018</b> , 24, 551-579	1.9	9
131	Hybrid techniques based on solving reduced problem instances for a longest common subsequence problem. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 62, 15-28	7.5	6
130	The weighted independent domination problem: Integer linear programming models and metaheuristic approaches. <i>European Journal of Operational Research</i> , <b>2018</b> , 265, 860-871	5.6	6
129	Job Sequencing with One Common and Multiple Secondary Resources: A Problem Motivated from Particle Therapy for Cancer Treatment. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 506-518	0.9	3
128	ILP-Based Reduced Variable Neighborhood Search for Large-Scale Minimum Common String Partition. <i>Electronic Notes in Discrete Mathematics</i> , <b>2018</b> , 66, 15-22	0.3	1
127	Heterogeneous Teams for Homogeneous Performance. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 89-105	0.9	
126	Selected String Problems <b>2018</b> , 1221-1240		
125	The Weighted Independent Domination Problem: ILP Model and Algorithmic Approaches. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 201-214	0.9	1
124	Mining k-reachable sets in real-world networks using domination in shortcut graphs. <i>Journal of Computational Science</i> , <b>2017</b> , 22, 1-14	3.4	4
123	A hybrid evolutionary algorithm based on solution merging for the longest arc-preserving common subsequence problem <b>2017</b> ,		3
122	Large neighborhood search for the most strings with few bad columns problem. <i>Soft Computing</i> , <b>2017</b> , 21, 4901-4915	3.5	1
121	Construct, Merge, Solve and Adapt Versus Large Neighborhood Search for Solving the Multi-dimensional Knapsack Problem: Which One Works Better When?. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 60-74	0.9	2
120	Extension of the CMSA Algorithm <b>2016</b> ,		2
119	Computational performance evaluation of two integer linear programming models for the minimum common string partition problem. <i>Optimization Letters</i> , <b>2016</b> , 10, 189-205	1.1	2
118	Construct, Merge, Solve & Adapt A new general algorithm for combinatorial optimization. <i>Computers and Operations Research</i> , <b>2016</b> , 68, 75-88	4.6	46
117	A hybrid algorithmic model for the minimum weight dominating set problem. <i>Simulation Modelling Practice and Theory</i> , <b>2016</b> , 64, 57-68	3.9	15

116	Construct, Merge, Solve and Adapt: Application to Unbalanced Minimum Common String Partition. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 17-31	0.9	3
115	Hybrid Metaheuristics. <i>The Artificial Intelligence: Foundations, and Algorithms</i> , <b>2016</b> ,	43	12
114	Construct, Merge, Solve and Adapt: Application to the Repetition-Free Longest Common Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 46-57	0.9	7
113	<b>2016</b> ,		30
112	FrogCOL and FrogMIS: new decentralized algorithms for finding large independent sets in graphs. <i>Swarm Intelligence</i> , <b>2015</b> , 9, 205-227	3	6
111	An artificial bioindicator system for network intrusion detection. <i>Artificial Life</i> , <b>2015</b> , 21, 93-118	1.4	4
110	The firefighter problem: Empirical results on random graphs. <i>Computers and Operations Research</i> , <b>2015</b> , 60, 55-66	4.6	9
109	A randomized population-based iterated greedy algorithm for the minimum weight dominating set problem <b>2015</b> ,		1
108	A matheuristic for the minimum weight rooted arborescence problem. <i>Journal of Heuristics</i> , <b>2015</b> , 21, 479-499	1.9	6
107	Ant Colony Optimization for the Minimum-Weight Rooted Arborescence Problem <b>2015</b> , 1333-1343		
106	Swarm Intelligence in Optimization and Robotics <b>2015</b> , 1291-1309		14
105	On solving the most strings with few bad columns problem: An ILP model and heuristics <b>2015</b> ,		1
104	Mathematical programming strategies for solving the minimum common string partition problem. <i>European Journal of Operational Research</i> , <b>2015</b> , 242, 769-777	5.6	11
103	The Firefighter Problem: Application of Hybrid Ant Colony Optimization Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 218-229	0.9	7
102	A Hybrid Ant Colony Optimization Algorithm for the Far From Most String Problem. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 1-12	0.9	3
101	FrogSim: distributed graph coloring in wireless ad hoc networks. <i>Telecommunication Systems</i> , <b>2014</b> , 55, 211-223	2.3	10
100	Iterative Probabilistic Tree Search for the Minimum Common String Partition Problem. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 145-154	0.9	5
99	Can Frogs Find Large Independent Sets in a Decentralized Way? Yes They Can!. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 74-85	0.9	1

98	Beam-ACO for the Repetition-Free Longest Common Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 79-90	0.9	3
97	Learning Maximum Weighted (k+1)-Order Decomposable Graphs by Integer Linear Programming. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 396-408	0.9	
96	ANTS 2012 special issue. <i>Swarm Intelligence</i> , <b>2013</b> , 7, 79-81	3	
95	Solving the 2D Bin Packing Problem by Means of a Hybrid Evolutionary Algorithm. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 899-908	1.6	13
94	The travelling salesman problem with time windows: Adapting algorithms from travel-time to makespan optimization. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 3806-3815	7.5	46
93	An iterated greedy algorithm for the large-scale unrelated parallel machines scheduling problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1829-1841	4.6	56
92	Large neighbourhood search applied to the efficient solution of spatially explicit strategic supply chain management problems. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 49, 114-126	4	16
91	Application of Large Neighborhood Search to Strategic Supply Chain Management in the Chemical Industry. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 335-352	0.8	1
90	Variable neighbourhood search for the variable sized bin packing problem. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 1097-1108	4.6	26
89	Large neighbourhood search algorithms for the founder sequence reconstruction problem. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 213-224	4.6	4
88	Hybrid Algorithms for the Minimum-Weight Rooted Arborescence Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 61-72	0.9	1
87	GRASP with path-relinking for the non-identical parallel machine scheduling problem with minimising total weighted completion times. <i>Annals of Operations Research</i> , <b>2012</b> , 201, 383-401	3.2	15
86	Distributed ant colony optimization for minimum energy broadcasting in sensor networks with realistic antennas. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 3683-3700	2.7	5
85	Iterated Greedy Algorithms for the Maximal Covering Location Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 172-181	0.9	3
84	Distributed graph coloring: an approach based on the calling behavior of Japanese tree frogs. <i>Swarm Intelligence</i> , <b>2012</b> , 6, 117-150	3	38
83	A population-based iterated greedy algorithm for the minimum weight vertex cover problem. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 1632-1639	7.5	51
82	Hybrid Metaheuristics in Combinatorial Optimization: A Tutorial. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 1-10	0.9	6
81	An Artificial Bee Colony Algorithm for the Unrelated Parallel Machines Scheduling Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 143-152	0.9	18

80	Evolutionary Optimization <b>2012</b> , 1-29		11
79	FlockOpt: A new swarm optimization algorithm based on collective behavior of starling birds <b>2011</b> ,		4
78	Minimum energy broadcasting in wireless sensor networks: An ant colony optimization approach for a realistic antenna model. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 5684-5694	7.5	16
77	Distributed graph coloring in wireless ad hoc networks: A light-weight algorithm based on Japanese tree frogs' calling behaviour <b>2011</b> ,		3
76	Hybrid metaheuristics in combinatorial optimization: A survey. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 4135-4151	7.5	479
75	Automated reconstruction of dendritic and axonal trees by global optimization with geometric priors. <i>Neuroinformatics</i> , <b>2011</b> , 9, 279-302	3.2	95
74	On solving the assembly line worker assignment and balancing problem via beam search. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 328-339	4.6	72
73	Implementing a model of Japanese tree frogs' calling behavior in sensor networks <b>2011</b> ,		3
72	Foundations of Antcycle: Self-synchronized Duty-cycling in Mobile Sensor Networks. <i>Computer Journal</i> , <b>2011</b> , 54, 1427-1448	1.3	
71	Solving the Two-Dimensional Bin Packing Problem with a Probabilistic Multi-start Heuristic. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 76-90	0.9	1
70	Hybrid Metaheuristics. <i>Springer Optimization and Its Applications</i> , <b>2011</b> , 305-335	0.4	5
69	Hybrid Algorithms for the Variable Sized Bin Packing Problem. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 16-30	0.9	1
68	Metaheuristic Hybrids. <i>Profiles in Operations Research</i> , <b>2010</b> , 469-496	1	15
67	A Protocol for Self-Synchronized Duty-Cycling in Sensor Networks: Generic Implementation in Wiselib <b>2010</b> ,		2
66	Beam-ACO for the longest common subsequence problem <b>2010</b> ,		3
65	Hybrid Metaheuristics. <i>Computers and Operations Research</i> , <b>2010</b> , 37, 430-431	4.6	12
64	Beam-ACO for the travelling salesman problem with time windows. <i>Computers and Operations Research</i> , <b>2010</b> , 37, 1570-1583	4.6	84
63	On the use of different types of knowledge in metaheuristics based on constructing solutions. <i>Engineering Applications of Artificial Intelligence</i> , <b>2010</b> , 23, 650-659	7.2	7

62	Reconstructing geometrically consistent tree structures from noisy images. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 291-9	0.9	4
61	A Hybrid Metaheuristic for the Longest Common Subsequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 1-15	0.9	1
60	A Randomized Iterated Greedy Algorithm for the Founder Sequence Reconstruction Problem. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 37-51	0.9	1
59	Self-synchronized duty-cycling in sensor networks with energy harvesting capabilities <b>2009</b> ,		1
58	Ant colony optimization for multicasting in static wireless ad-hoc networks. <i>Swarm Intelligence</i> , <b>2009</b> , 3, 125-148	3	18
57	Beam search for the longest common subsequence problem. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 3178-3186	4.6	41
56	Self-synchronized duty-cycling for mobile sensor networks with energy harvesting capabilities: A swarm intelligence study <b>2009</b> ,		6
55	Evaluating New Advanced Multiobjective Metaheuristics <b>2009</b> , 63-82		
54	Metaheuristics in Bioinformatics: DNA Sequencing and Reconstruction <b>2009</b> , 265-286		2
53	Optimal Location of Antennas in Telecommunication Networks <b>2009</b> , 287-307		
52	Solving the KCT Problem: Large-Scale Neighborhood Search and Solution Merging <b>2009</b> , 407-421		2
51	<b>2009</b> ,		17
50	Generating Automatic Projections by Means of Genetic Programming <b>2009</b> , 1-14		
49	Beam-ACO Based on Stochastic Sampling for Makespan Optimization Concerning the TSP with Time Windows. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 97-108	0.9	10
48	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 30-44	0.9	11
47	Beam-ACO Based on Stochastic Sampling: A Case Study on the TSP with Time Windows. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 59-73	0.9	
46	Tabu Search for the Founder Sequence Reconstruction Problem: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1035-1042	0.9	2
45	Swarm Intelligence in Optimization. <i>Natural Computing Series</i> , <b>2008</b> , 43-85	2.5	171



44	Energy-efficient multicasting in wireless ad-hoc networks: An ant colony optimization approach <b>2008,</b>		1
43	Beam-ACO for Simple Assembly Line Balancing. <i>INFORMS Journal on Computing</i> , <b>2008</b> , 20, 618-627	2.4	59
42	Hybrid Metaheuristics: An Introduction. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 1-30	0.8	53
41	An ant colony optimization algorithm for DNA sequencing by hybridization. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 3620-3635	4.6	33
40	Emergent Sorting in Networks of Router Agents. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 299-306	0.9	
39	Hybridizations of Metaheuristics With Branch & Bound Derivates. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 85-116	0.8	15
38	An Extended Beam-ACO Approach to the Time and Space Constrained Simple Assembly Line Balancing Problem. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 85-96	0.9	5
37	Ant Colony Optimization for Energy-Efficient Broadcasting in Ad-Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 25-36	0.9	7
36	Ant Colony Optimization: Introduction and Hybridizations <b>2007,</b>		2
35	Revisiting dynamic programming for finding optimal subtrees in trees. <i>European Journal of Operational Research</i> , <b>2007</b> , 177, 102-115	5.6	22
34	Finding Edge-disjoint Paths in Networks: An Ant Colony Optimization Algorithm. <i>Mathematical Modelling and Algorithms</i> , <b>2007</b> , 6, 361-391		14
33	An ant colony optimization algorithm for continuous optimization: application to feed-forward neural network training. <i>Neural Computing and Applications</i> , <b>2007</b> , 16, 235-247	4.8	186
32	ACO vs EAs for solving a real-world frequency assignment problem in GSM networks <b>2007,</b>		31
31	Iterated local search and constructive heuristics for error correcting code design. <i>International Journal of Innovative Computing and Applications</i> , <b>2007</b> , 1, 14	0.4	1
30	Ant Colony Optimization: Introduction and Hybridizations <b>2007,</b>		1
29	A Probabilistic Beam Search Approach to the Shortest Common Supersequence Problem. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 36-47	0.9	7
28	Probabilistic Beam Search for the Longest Common Subsequence Problem <b>2007</b> , 150-161		10
27	Using Branch & Bound Concepts in Construction-Based Metaheuristics: Exploiting the Dual Problem Knowledge. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 123-139	0.9	3

26	A new hybrid evolutionary algorithm for the huge k-cardinality tree problem <b>2006</b> ,		4
25	Beam-ACO Applied to Assembly Line Balancing. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 96-107	0.9	15
24	Ant Colony Optimization <b>2006</b> , 153-180		3
23	New Constructive Heuristics for DNA Sequencing by Hybridization. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 355-365	0.9	0
22	Multi-level Ant Colony Optimization for DNA Sequencing by Hybridization. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 94-109	0.9	4
21	Search bias in ant colony optimization: on the role of competition-balanced systems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2005</b> , 9, 159-174	15.6	55
20	Training feed-forward neural networks with ant colony optimization: an application to pattern classification <b>2005</b> ,		78
19	An Introduction to Metaheuristic Techniques <b>2005</b> , 1-42		10
18	Ant colony optimization: Introduction and recent trends. <i>Physics of Life Reviews</i> , <b>2005</b> , 2, 353-373	2.1	613
17	New metaheuristic approaches for the edge-weighted k-cardinality tree problem. <i>Computers and Operations Research</i> , <b>2005</b> , 32, 1355-1377	4.6	48
16	Beam-ACO Hybridizing ant colony optimization with beam search: an application to open shop scheduling. <i>Computers and Operations Research</i> , <b>2005</b> , 32, 1565-1591	4.6	266
15	Ant colony optimization theory: A survey. <i>Theoretical Computer Science</i> , <b>2005</b> , 344, 243-278	1.1	1400
14	Combining Ant Colony Optimization with Dynamic Programming for Solving the k-Cardinality Tree Problem. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 25-33	0.9	8
13	An Ant Colony Optimization Algorithm for Shop Scheduling Problems. <i>Mathematical Modelling and Algorithms</i> , <b>2004</b> , 3, 285-308		164
12	Ant Colony Optimization for the Maximum Edge-Disjoint Paths Problem. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 160-169	0.9	11
11	The hyper-cube framework for ant colony optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2004</b> , 34, 1161-72		235
10	Deception in Ant Colony Optimization. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 118-129	0.9	16
9	Local search algorithms for the k-cardinality tree problem. <i>Discrete Applied Mathematics</i> , <b>2003</b> , 128, 511-540		17

8	Metaheuristics in combinatorial optimization. <i>ACM Computing Surveys</i> , <b>2003</b> , 35, 268-308	13.4	1969
7	ACO Applied to Group Shop Scheduling: A Case Study on Intensification and Diversification. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 14-27	0.9	16
6	Metaheuristics for Group Shop Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 631-640	0.9	8
5	When Model Bias Is Stronger than Selection Pressure. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 893-902	0.9	16
4	Critical Parallelization of Local Search for MAX-SAT. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 147-158	0.9	3
3	Interpretation of a hierarchical neural network. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 651-659	0.9	
2	Diagnosis and monitoring of ulnar nerve lesions. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 211-222	0.9	
1	Ant colony optimization for FOP shop scheduling: a case study on different pheromone representations		26