Celso C Ribeiro

List of Publications by Year
in descending order

110 papers	4,233 citations	196777 29 h-index	182931 54 g-index
110 all docs	110 docs citations	110 times ranked	2332 citing authors

#	Article	IF	Citations
1	Maximum weighted induced forests and trees: new formulations and a computational comparative review. International Transactions in Operational Research, 2022, 29, 2263-2287.	1.8	4
2	New formulations and branch-and-cut procedures for the longest induced path problem. Computers and Operations Research, 2022, 139, 105627.	2.4	4
3	Shop scheduling in manufacturing environments: a review. International Transactions in Operational Research, 2022, 29, 3237-3293.	1.8	7
4	A decision support system for fraud detection in public procurement. International Transactions in Operational Research, 2021, 28, 27-47.	1.8	23
5	Compact formulations and an iterated local search-based matheuristic for the minimum weighted feedback vertex set problem. European Journal of Operational Research, 2021, 289, 75-92.	3.5	11
6	Polarization reduction by minimum‐cardinality edge additions: Complexity and integer programming approaches. International Transactions in Operational Research, 2021, 28, 1242-1264.	1.8	4
7	Exact and approximate algorithms for the longest induced path problem. RAIRO - Operations Research, 2021, 55, 333-353.	1.0	3
8	Biased random-key genetic algorithms using path-relinking as a progressive crossover strategy. , 2021, , .		0
9	A BRKGA-based matheuristic for the maximum quasi-clique problem with an exact local search strategy. RAIRO - Operations Research, 2021, 55, S741-S763.	1.0	7
10	A GRASP with path‐relinking and restarts heuristic for the prize‐collecting generalized minimum spanning tree problem. International Transactions in Operational Research, 2020, 27, 1419-1446.	1.8	11
11	A biased random-key genetic algorithm for routing and wavelength assignment under a sliding scheduled traffic model. Journal of Global Optimization, 2020, 77, 949-973.	1.1	7
12	A heuristic for the minimum cost chromatic partition problem. RAIRO - Operations Research, 2020, 54, 845-871.	1.0	1
13	Reducing Network Polarization by Edge Additions. , 2020, , .		2
14	An exact algorithm for the maximum quasi‐clique problem. International Transactions in Operational Research, 2019, 26, 2199-2229.	1.8	14
15	Multicast routing under quality of service constraints for vehicular ad hoc networks: mathematical formulation and a relax‐and‐fix heuristic. International Transactions in Operational Research, 2019, 26, 1339-1364.	1.8	5
16	Greedy Randomized Adaptive Search Procedures: Advances and Extensions. Profiles in Operations Research, 2019, , 169-220.	0.3	21
17	Extending time‐to‐target plots to multiple instances. International Transactions in Operational Research, 2018, 25, 1515-1536.	1.8	13
18	An empirical investigation of network polarization. Applied Mathematics and Computation, 2018, 339, 651-662.	1.4	10

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19	A biased random-key genetic algorithm for the maximum quasi-clique problem. European Journal of Operational Research, 2018, 271, 849-865.	3.5	32
20	A biased random-key genetic algorithm for scheduling heterogeneous multi-round systems. International Transactions in Operational Research, 2017, 24, 1061-1077.	1.8	27
21	A GRASP heuristic using path-relinking and restarts for the Steiner traveling salesman problem. International Transactions in Operational Research, 2017, 24, 1307-1323.	1.8	17
22	Edge coloring: A natural model for sports scheduling. European Journal of Operational Research, 2016, 254, 1-8.	3.5	21
23	Heuristics for the generalized median graph problem. European Journal of Operational Research, 2016, 254, 371-384.	3.5	6
24	Exact formulations for the minimum interference problem in k-connected *ad hoc* wireless networks. International Transactions in Operational Research, 2016, 23, 1113-1139.	1.8	3
25	Local search. , 2016, , 63-93.		2
26	Path-relinking. , 2016, , 167-188.		2
27	Optimization by GRASP. , 2016, , .		73
28	GRASP: The basic heuristic. , 2016, , 95-112.		2
29	A biased random-key genetic algorithm to maximize the number of accepted lightpaths in WDM optical networks. Journal of Global Optimization, 2016, 65, 813-835.	1.1	6
30	GRASP with path-relinking. , 2016, , 189-204.		2
31	Extended construction heuristics. , 2016, , 147-166.		0
32	Runtime distributions. , 2016, , 113-146.		0
33	A biased random-key genetic algorithm for single-round divisible load scheduling. International Transactions in Operational Research, 2015, 22, 823-839.	1.8	25
34	tttplots-compare: a perl program to compare time-to-target plots or general runtime distributions of randomized algorithms. Optimization Letters, 2015, 9, 601-614.	0.9	11
35	Preface to the Special Issue on Matheuristics: Model-Based Metaheuristics. International Transactions in Operational Research, 2015, 22, 1-1.	1.8	2
36	Improved solutions for the freight consolidation and containerization problem using aggregation and symmetry breaking. Computers and Industrial Engineering, 2015, 85, 402-413.	3.4	6

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37	Applying software engineering techniques in the development and management of linear and integer programming applications. International Transactions in Operational Research, 2014, 21, 1001-1030.	1.8	2
38	GRASP: Greedy Randomized Adaptive Search Procedures. , 2014, , 287-312.		38
39	A branch-and-cut algorithm for the equitable coloring problem using a formulation by representatives. Discrete Applied Mathematics, 2014, 164, 34-46.	0.5	18
40	A hybrid Lagrangean heuristic with GRASP and path-relinking for set k-covering. Computers and Operations Research, 2013, 40, 3132-3146.	2.4	33
41	Power optimization in ad hoc wireless network topology control with biconnectivity requirements. Computers and Operations Research, 2013, 40, 3188-3196.	2.4	13
42	Multi-start methods for combinatorial optimization. European Journal of Operational Research, 2013, 226, 1-8.	3.5	133
43	Probabilistic stopping rules for GRASP heuristics and extensions. International Transactions in Operational Research, 2013, 20, 301-323.	1.8	6
44	Scheduling the Brazilian Soccer Tournament: Solution Approach and Practice. Interfaces, 2012, 42, 260-272.	1.6	24
45	Exploiting run time distributions to compare sequential and parallel stochastic local search algorithms. Journal of Global Optimization, 2012, 54, 405-429.	1.1	37
46	Sports scheduling: Problems and applications. International Transactions in Operational Research, 2012, 19, 201-226.	1.8	56
47	Path-relinking intensification methods for stochastic local search algorithms. Journal of Heuristics, 2012, 18, 193-214.	1.1	57
48	An ILS heuristic for the traveling tournament problem with predefined venues. Annals of Operations Research, 2012, 194, 137-150.	2.6	20
49	A distributed and hierarchical strategy for autonomic grid-enabled cooperative metaheuristics with applications. International Transactions in Operational Research, 2011, 18, 679-705.	1.8	1
50	Adaptive memory in multistart heuristics forÂmulticommodity network design. Journal of Heuristics, 2011, 17, 153-179.	1.1	16
51	A biased random-key genetic algorithm for routing and wavelength assignment. Journal of Global Optimization, 2011, 50, 503-518.	1.1	54
52	A heuristic for minimizing weighted carry-over effects in round robin tournaments. Journal of Scheduling, 2011, 14, 655-667.	1.3	23
53	Experiments with LAGRASP heuristic for set k-covering. Optimization Letters, 2011, 5, 407-419.	0.9	12
54	Restart strategies for GRASP with path-relinking heuristics. Optimization Letters, 2011, 5, 467-478.	0.9	21

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55	Effective Probabilistic Stopping Rules for Randomized Metaheuristics: GRASP Implementations. Lecture Notes in Computer Science, 2011, , 146-160.	1.0	13
56	A branch‑and‑cut algorithm for partition coloring. Networks, 2010, 55, 194-204.	1.6	14
57	A Framework for Scheduling Professional Sports Leagues. AIP Conference Proceedings, 2010, , .	0.3	9
58	Scheduling in sports: An annotated bibliography. Computers and Operations Research, 2010, 37, 1-19.	2.4	219
59	A hybrid heuristic for the diameter constrained minimum spanning tree problem. Journal of Global Optimization, 2010, 46, 363-381.	1.1	19
60	Greedy Randomized Adaptive Search Procedures: Advances, Hybridizations, and Applications. Profiles in Operations Research, 2010, , 283-319.	0.3	126
61	Scatter Search and Path-Relinking: Fundamentals, Advances, and Applications. Profiles in Operations Research, 2010, , 87-107.	0.3	63
62	New heuristics and integer programming formulations for scheduling divisible load tasks. , 2009, , .		2
63	The traveling tournament problem with predefined venues. Journal of Scheduling, 2009, 12, 607-622.	1.3	21
64	A hybrid genetic algorithm for the phylogeny problem using path‑relinking as a progressive crossover strategy. International Transactions in Operational Research, 2009, 16, 641-657.	1.8	17
65	Optimal solutions for fault-tolerant topology control in wireless ad hoc networks. IEEE Transactions on Wireless Communications, 2009, 8, 5970-5981.	6.1	29
66	On the Use of Run Time Distributions to Evaluate and Compare Stochastic Local Search Algorithms. Lecture Notes in Computer Science, 2009, , 16-30.	1.0	16
67	Efficient Implementations of Heuristics for Routing and Wavelength Assignment. , 2008, , 169-180.		11
68	A New Lower Bound to the Traveling Tournament Problem. , 2007, , .		15
69	A Hybrid ILS Heuristic to the Referee Assignment Problem with an Embedded MIP Strategy. , 2007, , 82-95.		19
70	Metaheuristics for optimization problems in computer communications. Computer Communications, 2007, 30, 656-669.	3.1	34
71	Heuristics for the mirrored traveling tournament problem. European Journal of Operational Research, 2007, 179, 775-787.	3.5	98
72	Efficient parallel cooperative implementations of GRASP heuristics. Parallel Computing, 2007, 33, 21-35.	1.3	45

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73	TTT plots: a perl program to create time-to-target plots. Optimization Letters, 2007, 1, 355-366.	0.9	170
74	Exploring Grid Implementations of Parallel Cooperative Metaheuristics. , 2007, , 297-322.		5
75	Metaheuristics and Applications to Optimization Problems in Telecommunications. , 2006, , 103-128.		18
76	Routing and wavelength assignment by partition colouring. European Journal of Operational Research, 2006, 171, 797-810.	3.5	69
77	Maximizing breaks and bounding solutions to the mirrored traveling tournament problem. Discrete Applied Mathematics, 2006, 154, 1932-1938.	0.5	32
78	A Branch-and-Cut Algorithm for Scheduling the Highly-Constrained Chilean Soccer Tournament. , 2006, , 174-186.		11
79	Scheduling the Brazilian Soccer Tournament with Fairness and Broadcast Objectives. , 2006, , 147-157.		15
80	Referee Assignment in Sports Leagues. , 2006, , 158-173.		26
81	Parallel Greedy Randomized Adaptive Search Procedures. , 2005, , 315-346.		11
82	Using an Adaptive Memory Strategy to Improve a Multistart Heuristic for Sequencing by Hybridization. Lecture Notes in Computer Science, 2005, , 4-15.	1.0	6
83	An application of integer programming to playoff elimination in football championships. International Transactions in Operational Research, 2005, 12, 375-386.	1.8	19
84	A GRASP/VND heuristic for the phylogeny problem using a new neighborhood structure. International Transactions in Operational Research, 2005, 12, 325-338.	1.8	29
85	GRASP with Path-Relinking: Recent Advances and Applications. , 2005, , 29-63.		120
86	Applications and Parallel Implementations of Metaheuristics in Network Design and Routing. Lecture Notes in Computer Science, 2004, , 205-213.	1.0	11
87	AUTOMATIC SCHEDULING OF HYPERMEDIA DOCUMENTS WITH ELASTIC TIMES. Parallel Processing Letters, 2004, 14, 45-59.	0.4	4
88	A Hybrid Improvement Heuristic for the One-Dimensional Bin Packing Problem. Journal of Heuristics, 2004, 10, 205-229.	1.1	106
89	A Hybrid Bin-Packing Heuristic to Multiprocessor Scheduling. Lecture Notes in Computer Science, 2004, , 1-13.	1.0	16
90	Solving Diameter Constrained Minimum Spanning Tree Problems in Dense Graphs. Lecture Notes in Computer Science, 2004, , 458-467.	1.0	22

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91	A GRASP with path-relinking for private virtual circuit routing. Networks, 2003, 41, 104-114.	1.6	81
92	A GRASP Heuristic for the Capacitated Minimum Spanning Tree Problem Using a Memory-Based Local Search Strategy. Applied Optimization, 2003, , 627-657.	0.4	19
93	Greedy Randomized Adaptive Search Procedures. , 2003, , 219-249.		626
94	New Benchmark Instances for The Steiner Problem in Graphs. Applied Optimization, 2003, , 601-614.	0.4	8
95	A Hybrid GRASP with Perturbations for the Steiner Problem in Graphs. INFORMS Journal on Computing, 2002, 14, 228-246.	1.0	125
96	Essays and Surveys in Metaheuristics. Operations Research/ Computer Science Interfaces Series, 2002, , .	0.3	54
97	Preprocessing Steiner problems from VLSI layout. Networks, 2002, 40, 38-50.	1.6	25
98	Probability Distribution of Solution Time in GRASP: An Experimental Investigation. Journal of Heuristics, 2002, 8, 343-373.	1.1	122
99	Heuristics for the Phylogeny Problem. Journal of Heuristics, 2002, 8, 429-447.	1.1	30
100	A Parallel GRASP Heuristic for the 2-Path Network Design Problem. Lecture Notes in Computer Science, 2002, , 922-926.	1.0	32
101	Strategies for the Parallel Implementation of Metaheuristics. Operations Research/ Computer Science Interfaces Series, 2002, , 263-308.	0.3	60
102	Reactive Tabu Search with Path-Relinking for the Steiner Problem in Graphs. Operations Research/ Computer Science Interfaces Series, 2002, , 39-58.	0.3	13
103	Tabu search for the Steiner problem in graphs. Networks, 2000, 36, 138-146.	1.6	52
104	Reactive GRASP: An Application to a Matrix Decomposition Problem in TDMA Traffic Assignment. INFORMS Journal on Computing, 2000, 12, 164-176.	1.0	214
105	Algorithm 797. ACM Transactions on Mathematical Software, 1999, 25, 341-352.	1.6	27
106	A GRASP for graph planarization. Networks, 1997, 29, 173-189.	1.6	66
107	A GRASP for graph planarization. , 1997, 29, 173.		5
108	A Column Generation Approach to the Multiple-Depot Vehicle Scheduling Problem. Operations Research, 1994, 42, 41-52.	1.2	165

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109	Clustering and clique partitioning: Simulated annealing and tabu search approaches. Journal of Classification, 1992, 9, 17-41.	1.2	76
110	A heuristic approach to hard constrained shortest path problems. Discrete Applied Mathematics, 1985, 10, 125-137.	0.5	25