Mauricio C De Souza

List of Publications by Year
in descending order

38 papers	552 citations	687363 13 h-index	642732 23 g-index
38 all docs	38 docs citations	38 times ranked	449 citing authors

#	Article	IF	Citations
1	Variable neighborhood search for the degree-constrained minimum spanning tree problem. Discrete Applied Mathematics, 2002, 118, 43-54.	0.9	92
2	Tabu search for the Steiner problem in graphs. Networks, 2000, 36, 138-146.	2.7	52
3	Surgical scheduling with simultaneous employment of specialised human resources. European Journal of Operational Research, 2015, 245, 719-730.	5.7	40
4	Capacitated lot sizing and sequence dependent setup scheduling: an iterative approach for integration. Journal of Scheduling, 2010, 13, 245-259.	1.9	39
5	Packing items to feed assembly lines. European Journal of Operational Research, 2008, 184, 480-489.	5.7	33
6	Time-indexed formulation and polynomial time heuristic for a multi-dock truck scheduling problem in a cross-docking centre. Computers and Industrial Engineering, 2016, 95, 135-143.	6.3	27
7	Skewed VNS enclosing second order algorithm for the degree constrained minimum spanning tree problem. European Journal of Operational Research, 2008, 191, 677-690.	5.7	23
8	Approximate decomposition methods for the analysis of multicommodity flow routing in generalized queuing networks. European Journal of Operational Research, 2014, 232, 618-629.	5.7	21
9	VNS and second order heuristics for the min-degree constrained minimum spanning tree problem. Computers and Operations Research, 2009, 36, 2969-2982.	4.0	20
10	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
11	Variable neighborhood descent with iterated local search for routing and wavelength assignment. Computers and Operations Research, 2012, 39, 2133-2141.	4.0	19
12	Models and heuristics for a minimum arborescence problem. Networks, 2008, 51, 34-47.	2.7	18
13	Local optimality conditions for multicommodity flow problems with separable piecewise convex costs. Operations Research Letters, 2007, 35, 221-226.	0.7	16
14	Minâ€degree constrained minimum spanning tree problem: complexity, properties, and formulations. International Transactions in Operational Research, 2012, 19, 323-352.	2.7	14
15	Crane scheduling problem with non-interference constraints in a steel coil distribution centre. International Journal of Production Research, 2017, 55, 1607-1622.	7.5	14
16	Surgical scheduling under uncertainty by approximate dynamic programming. Omega, 2020, 95, 102066.	5.9	14
17	md-MST is NP-hard for. Electronic Notes in Discrete Mathematics, 2010, 36, 9-15.	0.4	10
18	GRASP with hybrid heuristic-subproblem optimization for the multi-level capacitated minimum spanning tree problem. Journal of Heuristics, 2009, 15, 133-151.	1.4	8

#	Article	IF	Citations
19	Models and heuristics for the k â€degree constrained minimum spanning tree problem with nodeâ€degree costs. Networks, 2012, 60, 1-18.	2.7	7
20	Global optimization of capacity expansion and flow assignment in multicommodity networks. Pesquisa Operacional, 2013, 33, 217-234.	0.4	7
21	Approaches for the joint resolution of lot-sizing and scheduling with infeasibilities occurrences. Computers and Industrial Engineering, 2021, 155, 107176.	6.3	6
22	The Lagrangean Relaxation for the Flow Shop Scheduling Problem with Precedence Constraints, Release Dates and Delivery Times. Journal of Advanced Transportation, 2019, 2019, 1-10.	1.7	6
23	Cycleâ€based algorithms for multicommodity network flow problems with separable piecewise convex costs. Networks, 2008, 51, 133-141.	2.7	5
24	Use of radial basis functions for meshless numerical solutions applied to financial engineering barrier options. Pesquisa Operacional, 2009, 29, 419-437.	0.4	5
25	Branchâ€andâ€cut and hybrid local search for the multiâ€level capacitated minimum spanning tree problem. Networks, 2012, 59, 148-160.	2.7	5
26	Formulations and a Lagrangian relaxation approach for the prize collecting traveling salesman problem. International Transactions in Operational Research, 2022, 29, 729-759.	2.7	5
27	Semi-parallel flow shop with a final synchronization operation scheduling problem**This work was supported by CAPES,UFMG,UFOP and UTT.. IFAC-PapersOnLine, 2016, 49, 1032-1037.	0.9	4
28	Stronger upper and lower bounds for a hard batching problem to feed assembly lines. Electronic Notes in Discrete Mathematics, 2008, 30, 159-164.	0.4	3
29	Models for scheduling charges in continuous casting: application to a Brazilian steel plant. Optimization Letters, 2016, 10, 667-683.	1.6	3
30	Flowshop scheduling problem with parallel semi-lines and final synchronization operation. Computers and Operations Research, 2019, 108, 121-133.	4.0	3
31	Two Formulations for non-Interference Parallel Machine Scheduling Problems. IFAC-PapersOnLine, 2015, 48, 272-276.	0.9	2
32	Scheduling cranes to retrieve steel coils in a warehouse. IFAC-PapersOnLine, 2016, 49, 1020-1025.	0.9	2
33	Model-hierarchical column generation and heuristic for the routing and wavelength assignment problem. 4or, 2016, 14, 201-220.	1.6	2
34	MULTICOMMODITY NETWORK FLOWS WITH NONCONVEX ARC COSTS. Pesquisa Operacional, 2017, 37, 571-595.	0.4	2
35	A linearized model for academic staff assignment in a Brazilian university focusing on performance gain in quality indicators. International Journal of Production Economics, 2018, 197, 43-51.	8.9	2
36	Lagrangian bounds for largeâ€scale multicommodity network design: a comparison between Volume and Bundle methods. International Transactions in Operational Research, 2021, 28, 296-326.	2.7	2

#	Article	IF	Citations
37	Roteamento de multi-fluxos em redes de filas genÃ©ricas. Pesquisa Operacional, 2010, 30, 583-600.	0.4	1
38	OPTIMIZATION IN NETWORKS: MODELING, ALGORITHMS AND APPLICATIONS. Pesquisa Operacional, 2017, 37, 435-436.	0.4	1