

Josã© Manuel V Valã©rio De Carvalho

List of Publications by Year in descending order

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65
papers

1,376
citations

430442

18
h-index

360668

35
g-index

67
all docs

67
docs citations

67
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	LP models for bin packing and cutting stock problems. European Journal of Operational Research, 2002, 141, 253-273.	3.5	202
2	An integer programming model for two- and three-stage two-dimensional cutting stock problems. European Journal of Operational Research, 2010, 205, 699-708.	3.5	83
3	Arc-flow model for the two-dimensional guillotine cutting stock problem. Computers and Operations Research, 2010, 37, 991-1001.	2.4	82
4	A branch-and-price algorithm for scheduling parallel machines with sequence dependent setup times. European Journal of Operational Research, 2007, 176, 1508-1527.	3.5	78
5	Dual-Optimal Inequalities for Stabilized Column Generation. Operations Research, 2006, 54, 454-463.	1.2	76
6	Solving the vehicle routing problem with time windows and multiple routes exactly using a pseudo-polynomial model. European Journal of Operational Research, 2011, 214, 536-545.	3.5	76
7	Using Extra Dual Cuts to Accelerate Column Generation. INFORMS Journal on Computing, 2005, 17, 175-182.	1.0	67
8	A stabilized branch-and-price-and-cut algorithm for the multiple length cutting stock problem. Computers and Operations Research, 2008, 35, 1315-1328.	2.4	54
9	A survey of dual-feasible and superadditive functions. Annals of Operations Research, 2010, 179, 317-342.	2.6	52
10	An LP-based approach to a two-stage cutting stock problem. European Journal of Operational Research, 1995, 84, 580-589.	3.5	49
11	Accelerating column generation for variable sized bin-packing problems. European Journal of Operational Research, 2007, 183, 1333-1352.	3.5	47
12	A comparative study of the arcflow model and the one-cut model for one-dimensional cutting stock problems. European Journal of Operational Research, 2018, 266, 458-471.	3.5	39
13	Integrating two-dimensional cutting stock and lot-sizing problems. Journal of the Operational Research Society, 2014, 65, 108-123.	2.1	27
14	New constructive algorithms for leather nesting in the automotive industry. Computers and Operations Research, 2012, 39, 1487-1505.	2.4	23
15	Cutting Stock Problems. , 2005, , 131-161.		22
16	A hybrid heuristic for the multiple choice multidimensional knapsack problem. Engineering Optimization, 2013, 45, 983-1004.	1.5	22
17	Multidimensional dual-feasible functions and fast lower bounds for the vector packing problem. European Journal of Operational Research, 2014, 233, 43-63.	3.5	22
18	Skewed general variable neighborhood search for the location routing scheduling problem. Computers and Operations Research, 2015, 61, 143-152.	2.4	22

#	ARTICLE	IF	CITATIONS
19	Comparing Dantzig-Wolfe decompositions and branch-and-price algorithms for the multi-item capacitated lot-sizing problem. <i>Optimization Methods and Software</i> , 2010, 25, 299-319.	1.6	19
20	Arc flow formulations based on dynamic programming: Theoretical foundations and applications. <i>European Journal of Operational Research</i> , 2022, 296, 3-21.	3.5	18
21	An Exact Algorithm for Bilevel 0-1 Knapsack Problems. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-23.	0.6	17
22	Variable neighborhood search algorithms for the vehicle routing problem with two-dimensional loading constraints and mixed linehauls and backhauls. <i>International Transactions in Operational Research</i> , 2020, 27, 549-572.	1.8	17
23	A Note on Branch-and-Price Algorithms for the One-Dimensional Cutting Stock Problems. <i>Computational Optimization and Applications</i> , 2002, 21, 339-340.	0.9	15
24	A branch-and-price-and-cut algorithm for the pattern minimization problem. <i>RAIRO - Operations Research</i> , 2008, 42, 435-453.	1.0	15
25	Sequence based heuristics for two-dimensional bin packing problems. <i>Engineering Optimization</i> , 2009, 41, 773-791.	1.5	15
26	New Stabilization Procedures for the Cutting Stock Problem. <i>INFORMS Journal on Computing</i> , 2011, 23, 530-545.	1.0	14
27	New lower bounds based on column generation and constraint programming for the pattern minimization problem. <i>Computers and Operations Research</i> , 2009, 36, 2944-2954.	2.4	13
28	Theoretical investigations on maximal dual feasible functions. <i>Operations Research Letters</i> , 2010, 38, 174-178.	0.5	13
29	An insertion heuristic for the capacitated vehicle routing problem with loading constraints and mixed linehauls and backhauls. <i>FME Transactions</i> , 2015, 43, 311-318.	0.7	12
30	Solving the Multiscenario Max-Min Knapsack Problem Exactly with Column Generation and Branch-and-Bound. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	11
31	An extended model and a column generation algorithm for the planar multicommodity flow problem. <i>Networks</i> , 2007, 50, 3-16.	1.6	9
32	On the extremality of maximal dual feasible functions. <i>Operations Research Letters</i> , 2012, 40, 25-30.	0.5	9
33	Combined cutting stock and scheduling: a matheuristic approach. <i>International Journal of Innovative Computing and Applications</i> , 2016, 7, 135.	0.2	9
34	Variable neighborhood search algorithms for pickup and delivery problems with loading constraints. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 58, 111-118.	0.4	9
35	Exact and heuristic approaches for lot splitting and scheduling on identical parallel machines. <i>International Journal of Manufacturing Technology and Management</i> , 2011, 22, 39.	0.1	8
36	An exact approach based on a new pseudo-polynomial network flow model for integrated planning and scheduling. <i>Computers and Operations Research</i> , 2016, 76, 183-194.	2.4	8

#	ARTICLE	IF	CITATIONS
37	An arc flow formulation to the multitrip production, inventory, distribution, and routing problem with time windows. <i>International Transactions in Operational Research</i> , 2022, 29, 526-553.	1.8	8
38	On the Properties of General Dual-Feasible Functions. <i>Lecture Notes in Computer Science</i> , 2014, , 180-194.	1.0	7
39	HEURISTICS WITH STOCHASTIC NEIGHBORHOOD STRUCTURES FOR TWO-DIMENSIONAL BIN PACKING AND CUTTING STOCK PROBLEMS. <i>Asia-Pacific Journal of Operational Research</i> , 2011, 28, 255-278.	0.9	6
40	Constructing general dual-feasible functions. <i>Operations Research Letters</i> , 2015, 43, 427-431.	0.5	6
41	Exact Solution of Combined Cutting Stock and Scheduling Problems. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2016, , 131-139.	0.3	6
42	A Variable Neighborhood Search Algorithm for the Leather Nesting Problem. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-28.	0.6	5
43	A Model-Based Heuristic for the Combined Cutting Stock and Scheduling Problem. <i>Lecture Notes in Computer Science</i> , 2015, , 490-505.	1.0	5
44	Column generation based primal heuristics for routing and loading problems. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 64, 135-144.	0.4	5
45	Variable and constraint reduction techniques for the temporal bin packing problem with fire-ups. <i>Optimization Letters</i> , 2022, 16, 2333-2358.	0.9	5
46	New integer programming formulations and an exact algorithm for the ordered cutting stock problem. <i>Journal of the Operational Research Society</i> , 2008, 59, 1520-1531.	2.1	4
47	Worst-case analysis of maximal dual feasible functions. <i>Optimization Letters</i> , 2012, 6, 1687-1705.	0.9	4
48	A Hybrid Heuristic Based on Column Generation for Two- and Three- Stage Bin Packing Problems. <i>Lecture Notes in Computer Science</i> , 2014, , 211-226.	1.0	4
49	Programa de operações em sistemas com tempo de processamento variável. <i>Pesquisa Operacional</i> , 2002, 22, 323-344.	0.1	3
50	Special issue on "Cutting and Packing". <i>International Transactions in Operational Research</i> , 2013, 20, 441-442.	1.8	3
51	Preface to the Special Issue on Cutting and Packing. <i>International Transactions in Operational Research</i> , 2016, 23, 3-4.	1.8	3
52	A strong integer linear optimization model to the compartmentalized knapsack problem. <i>International Transactions in Operational Research</i> , 2019, 26, 1633-1654.	1.8	3
53	Variable Neighborhood Search for the Elementary Shortest Path Problem with Loading Constraints. <i>Lecture Notes in Computer Science</i> , 2015, , 474-489.	1.0	3
54	GRAPH PROPERTIES OF MINIMIZATION OF OPEN STACKS PROBLEMS AND A NEW INTEGER PROGRAMMING MODEL. <i>Pesquisa Operacional</i> , 2015, 35, 213-250.	0.1	3

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55	Column Generation Based Approaches for Combined Routing and Scheduling. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 64, 155-164.	0.4	2
56	A Branch-and-Price Algorithm for the Vehicle Routing Problem with 2-Dimensional Loading Constraints. <i>Lecture Notes in Computer Science</i> , 2016, , 321-336.	1.0	2
57	Models and Advanced Optimization Algorithms for the Integrated Management of Logistics Operations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 313-324.	0.1	1
58	Fast Heuristics for Integrated Planning and Scheduling. <i>Lecture Notes in Computer Science</i> , 2015, , 413-428.	1.0	1
59	An integer programming model for the Minimum Interval Graph Completion Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2010, 36, 583-590.	0.4	0
60	A Column Generation Approach to the Discrete Lot Sizing and Scheduling Problem on Parallel Machines. <i>CIM Series in Mathematical Sciences</i> , 2015, , 157-170.	0.4	0
61	Other Applications in General Integer Programming. <i>EURO Advanced Tutorials on Operational Research</i> , 2016, , 125-131.	0.6	0
62	Applications for Cutting and Packing Problems. <i>EURO Advanced Tutorials on Operational Research</i> , 2016, , 91-123.	0.6	0
63	General Dual-Feasible Functions. <i>EURO Advanced Tutorials on Operational Research</i> , 2016, , 51-89.	0.6	0
64	Classical Dual-Feasible Functions. <i>EURO Advanced Tutorials on Operational Research</i> , 2016, , 21-49.	0.6	0
65	Linear and Integer Programming. <i>EURO Advanced Tutorials on Operational Research</i> , 2016, , 1-19.	0.6	0