

# Cláudio Alves

## List of Publications by Year in descending order

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46  
papers

674  
citations

623188

14  
h-index

580395

25  
g-index

48  
all docs

48  
docs citations

48  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arc-flow model for the two-dimensional guillotine cutting stock problem. Computers and Operations Research, 2010, 37, 991-1001.	2.4	82
2	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
3	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
4	A survey of dual-feasible and superadditive functions. Annals of Operations Research, 2010, 179, 317-342.	2.6	52
5	Accelerating column generation for variable sized bin-packing problems. European Journal of Operational Research, 2007, 183, 1333-1352.	3.5	47
6	Iterative aggregation and disaggregation algorithm for pseudo-polynomial network flow models with side constraints. European Journal of Operational Research, 2017, 258, 467-477.	3.5	27
7	New constructive algorithms for leather nesting in the automotive industry. Computers and Operations Research, 2012, 39, 1487-1505.	2.4	23
8	A hybrid heuristic for the multiple choice multidimensional knapsack problem. Engineering Optimization, 2013, 45, 983-1004.	1.5	22
9	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
10	Skewed general variable neighborhood search for the location routing scheduling problem. Computers and Operations Research, 2015, 61, 143-152.	2.4	22
11	Arc flow formulations based on dynamic programming: Theoretical foundations and applications. European Journal of Operational Research, 2022, 296, 3-21.	3.5	18
12	An Exact Algorithm for Bilevel 0-1 Knapsack Problems. Mathematical Problems in Engineering, 2012, 2012, 1-23.	0.6	17
13	Variable neighborhood search algorithms for the vehicle routing problem with two-dimensional loading constraints and mixed linehauls and backhauls. International Transactions in Operational Research, 2020, 27, 549-572.	1.8	17
14	A branch-and-price-and-cut algorithm for the pattern minimization problem. RAIRO - Operations Research, 2008, 42, 435-453.	1.0	15
15	New Stabilization Procedures for the Cutting Stock Problem. INFORMS Journal on Computing, 2011, 23, 530-545.	1.0	14
16	New lower bounds based on column generation and constraint programming for the pattern minimization problem. Computers and Operations Research, 2009, 36, 2944-2954.	2.4	13
17	Theoretical investigations on maximal dual feasible functions. Operations Research Letters, 2010, 38, 174-178.	0.5	13
18	An insertion heuristic for the capacitated vehicle routing problem with loading constraints and mixed linehauls and backhauls. FME Transactions, 2015, 43, 311-318.	0.7	12

#	ARTICLE	IF	CITATIONS
19	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
20	On the extremality of maximal dual feasible functions. <i>Operations Research Letters</i> , 2012, 40, 25-30.	0.5	9
21	Combined cutting stock and scheduling: a matheuristic approach. <i>International Journal of Innovative Computing and Applications</i> , 2016, 7, 135.	0.2	9
22	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
23	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
24	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
25	On the Properties of General Dual-Feasible Functions. <i>Lecture Notes in Computer Science</i> , 2014, , 180-194.	1.0	7
26	A real-time optimization algorithm for the integrated planning and scheduling problem towards the context of Industry 4.0. <i>FME Transactions</i> , 2019, 47, 775-781.	0.7	7
27	Constructing general dual-feasible functions. <i>Operations Research Letters</i> , 2015, 43, 427-431.	0.5	6
28	Exact Solution of Combined Cutting Stock and Scheduling Problems. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2016, , 131-139.	0.3	6
29	A Variable Neighborhood Search Algorithm for the Leather Nesting Problem. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-28.	0.6	5
30	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
31	Column generation based primal heuristics for routing and loading problems. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 64, 135-144.	0.4	5
32	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
33	Worst-case analysis of maximal dual feasible functions. <i>Optimization Letters</i> , 2012, 6, 1687-1705.	0.9	4
34	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
35	Variable Neighborhood Search for Integrated Planning and Scheduling. <i>Lecture Notes in Computer Science</i> , 2017, , 709-724.	1.0	2
36	Column Generation Based Approaches for Combined Routing and Scheduling. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 64, 155-164.	0.4	2

#	ARTICLE	IF	CITATIONS
37	A Branch-and-Price Algorithm for the Vehicle Routing Problem with 2-Dimensional Loading Constraints. Lecture Notes in Computer Science, 2016, , 321-336.	1.0	2
38	Models and Advanced Optimization Algorithms for the Integrated Management of Logistics Operations. Springer Proceedings in Mathematics and Statistics, 2018, , 313-324.	0.1	1
39	Fast Heuristics for Integrated Planning and Scheduling. Lecture Notes in Computer Science, 2015, , 413-428.	1.0	1
40	Gomory Cuts from a Position-Indexed Formulation of 1D Stock Cutting. , 2008, , 3-14.		1
41	GPU-Based Computing for Nesting Problems: The Importance of Sequences in Static Selection Approaches. Studies in Big Data, 2015, , 195-202.	0.8	0
42	Other Applications in General Integer Programming. EURO Advanced Tutorials on Operational Research, 2016, , 125-131.	0.6	0
43	Applications for Cutting and Packing Problems. EURO Advanced Tutorials on Operational Research, 2016, , 91-123.	0.6	0
44	General Dual-Feasible Functions. EURO Advanced Tutorials on Operational Research, 2016, , 51-89.	0.6	0
45	Classical Dual-Feasible Functions. EURO Advanced Tutorials on Operational Research, 2016, , 21-49.	0.6	0
46	Linear and Integer Programming. EURO Advanced Tutorials on Operational Research, 2016, , 1-19.	0.6	0