

Eduardo Uchoa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6552664/publications.pdf>

Version: 2024-02-01

74
papers

2,967
citations

218381

26
h-index

174990

52
g-index

77
all docs

77
docs citations

77
times ranked

1883
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A branch-cut-and-price algorithm for the cumulative capacitated vehicle routing problem. <i>4or</i> , 2023, 21, 47-71. | 1.0 | 5 |
| 2 | A Bucket Graph-Based Labeling Algorithm with Application to Vehicle Routing. <i>Transportation Science</i> , 2021, 55, 4-28. | 2.6 | 37 |
| 3 | A POPMUSIC matheuristic for the capacitated vehicle routing problem. <i>Computers and Operations Research</i> , 2021, 136, 105475. | 2.4 | 24 |
| 4 | Solving Bin Packing Problems Using VRPSolver Models. <i>SN Operations Research Forum</i> , 2021, 2, . | 0.6 | 4 |
| 5 | Capacitated Multi-Layer Network Design with Unsplittable Demands: Polyhedra and Branch-and-Cut. <i>Discrete Optimization</i> , 2020, 35, 100555. | 0.6 | 4 |
| 6 | On the exact solution of vehicle routing problems with backhauls. <i>European Journal of Operational Research</i> , 2020, 287, 76-89. | 3.5 | 10 |
| 7 | A generic exact solver for vehicle routing and related problems. <i>Mathematical Programming</i> , 2020, 183, 483-523. | 1.6 | 82 |
| 8 | On the exact solution of a large class of parallel machine scheduling problems. <i>Journal of Scheduling</i> , 2020, 23, 411-429. | 1.3 | 8 |
| 9 | A branch-cut-and-price algorithm for the traveling salesperson problem with hotel selection. <i>Computers and Operations Research</i> , 2020, 123, 104986. | 2.4 | 3 |
| 10 | Improved state space relaxation for constrained two-dimensional guillotine cutting problems. <i>European Journal of Operational Research</i> , 2019, 272, 106-120. | 3.5 | 17 |
| 11 | Distance Transformation for Network Design Problems. <i>SIAM Journal on Optimization</i> , 2019, 29, 1687-1713. | 1.2 | 3 |
| 12 | Comparative Analysis of Capacitated Arc Routing Formulations for Designing a New Branch-Cut-and-Price Algorithm. <i>Transportation Science</i> , 2019, 53, 1673-1694. | 2.6 | 11 |
| 13 | Primal Heuristics for Branch and Price: The Assets of Diving Methods. <i>INFORMS Journal on Computing</i> , 2019, 31, 251-267. | 1.0 | 52 |
| 14 | A Generic Exact Solver for Vehicle Routing and Related Problems. <i>Lecture Notes in Computer Science</i> , 2019, , 354-369. | 1.0 | 12 |
| 15 | A robust and scalable algorithm for the Steiner problem in graphs. <i>Mathematical Programming Computation</i> , 2018, 10, 69-118. | 3.2 | 23 |
| 16 | Enhanced Branch-Cut-and-Price algorithm for heterogeneous fleet vehicle routing problems. <i>European Journal of Operational Research</i> , 2018, 270, 530-543. | 3.5 | 38 |
| 17 | A branch-and-price algorithm for the Minimum Latency Problem. <i>Computers and Operations Research</i> , 2018, 93, 66-78. | 2.4 | 38 |
| 18 | On the complete set packing and set partitioning polytopes: Properties and rank 1 facets. <i>Operations Research Letters</i> , 2018, 46, 389-392. | 0.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Automation and Combination of Linear-Programming Based Stabilization Techniques in Column Generation. <i>INFORMS Journal on Computing</i> , 2018, 30, 339-360. | 1.0 | 63 |
| 20 | Improved branch-cut-and-price for capacitated vehicle routing. <i>Mathematical Programming Computation</i> , 2017, 9, 61-100. | 3.2 | 138 |
| 21 | Limited memory Rank-1 Cuts for Vehicle Routing Problems. <i>Operations Research Letters</i> , 2017, 45, 206-209. | 0.5 | 27 |
| 22 | New Enhancements for the Exact Solution of the Vehicle Routing Problem with Time Windows. <i>INFORMS Journal on Computing</i> , 2017, 29, 489-502. | 1.0 | 87 |
| 23 | New benchmark instances for the Capacitated Vehicle Routing Problem. <i>European Journal of Operational Research</i> , 2017, 257, 845-858. | 3.5 | 251 |
| 24 | COLUMN GENERATION BASED ALGORITHMS FOR THE CAPACITATED MULTI-LAYER NETWORK DESIGN WITH UNSPLITTABLE DEMANDS. <i>Pesquisa Operacional</i> , 2017, 37, 545-570. | 0.1 | 1 |
| 25 | Column generation approaches for the software clustering problem. <i>Computational Optimization and Applications</i> , 2016, 64, 843-864. | 0.9 | 7 |
| 26 | Unsplittable non-additive capacitated network design using set functions polyhedra. <i>Computers and Operations Research</i> , 2016, 66, 105-115. | 2.4 | 11 |
| 27 | Chapter 3: New Exact Algorithms for the Capacitated Vehicle Routing Problem. , 2014, , 59-86. | | 32 |
| 28 | Improved Branch-Cut-and-Price for Capacitated Vehicle Routing. <i>Lecture Notes in Computer Science</i> , 2014, , 393-403. | 1.0 | 20 |
| 29 | Exact algorithms for the traveling salesman problem with draft limits. <i>European Journal of Operational Research</i> , 2014, 235, 115-128. | 3.5 | 29 |
| 30 | Formulations for a problem of petroleum transportation. <i>European Journal of Operational Research</i> , 2014, 237, 82-90. | 3.5 | 21 |
| 31 | A hybrid algorithm for a class of vehicle routing problems. <i>Computers and Operations Research</i> , 2013, 40, 2519-2531. | 2.4 | 194 |
| 32 | Branch-cut-and-price for the vehicle routing problem with simultaneous pickup and delivery. <i>Optimization Letters</i> , 2013, 7, 1569-1581. | 0.9 | 59 |
| 33 | The time dependent traveling salesman problem: polyhedra and algorithm. <i>Mathematical Programming Computation</i> , 2013, 5, 27-55. | 3.2 | 60 |
| 34 | Capacitated Network Design using Bin-Packing. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 41, 479-486. | 0.4 | 1 |
| 35 | Hop-level flow formulation for the survivable network design with hop constraints problem. <i>Networks</i> , 2013, 61, 171-179. | 1.6 | 14 |
| 36 | A hybrid genetic algorithm with local search approach for E/T scheduling problems on identical parallel machines. , 2013, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | In-Out Separation and Column Generation Stabilization by Dual Price Smoothing. Lecture Notes in Computer Science, 2013, , 354-365. | 1.0 | 13 |
| 38 | Fast local search for the steiner problem in graphs. Journal of Experimental Algorithmics, 2012, 17, . | 0.7 | 8 |
| 39 | A column generation approach for power-aware optimization of virtualized heterogeneous server clusters. Computers and Industrial Engineering, 2012, 63, 652-662. | 3.4 | 14 |
| 40 | A hybrid algorithm for the Heterogeneous Fleet Vehicle Routing Problem. European Journal of Operational Research, 2012, 221, 285-295. | 3.5 | 120 |
| 41 | A GRASP-based approach to the generalized minimum spanning tree problem. Expert Systems With Applications, 2012, 39, 3526-3536. | 4.4 | 22 |
| 42 | Branch-and-cut and hybrid local search for the multi-level capacitated minimum spanning tree problem. Networks, 2012, 59, 148-160. | 1.6 | 5 |
| 43 | Strong bounds with cut and column generation for class-teacher timetabling. Annals of Operations Research, 2012, 194, 399-412. | 2.6 | 44 |
| 44 | Branch-and-cut with lazy separation for the vehicle routing problem with simultaneous pickup and delivery. Operations Research Letters, 2011, 39, 338-341. | 0.5 | 70 |
| 45 | Modeling hop-constrained and diameter-constrained minimum spanning tree problems as Steiner tree problems over layered graphs. Mathematical Programming, 2011, 128, 123-148. | 1.6 | 81 |
| 46 | Hop-Level Flow Formulation for the Hop Constrained Survivable Network Design Problem. Lecture Notes in Computer Science, 2011, , 176-181. | 1.0 | 1 |
| 47 | Exact algorithm over an arc-time-indexed formulation for parallel machine scheduling problems. Mathematical Programming Computation, 2010, 2, 259-290. | 3.2 | 82 |
| 48 | A distributed dual ascent algorithm for the Hop-constrained Steiner Tree Problem. Operations Research Letters, 2010, 38, 57-62. | 0.5 | 13 |
| 49 | Improved lower bounds for the Split Delivery Vehicle Routing Problem. Operations Research Letters, 2010, 38, 302-306. | 0.5 | 33 |
| 50 | Solving Replica Placement and Request Distribution in Content Distribution Networks. Electronic Notes in Discrete Mathematics, 2010, 36, 89-96. | 0.4 | 22 |
| 51 | The Time Dependent Traveling Salesman Problem: Polyhedra and Branch-Cut-and-Price Algorithm. Lecture Notes in Computer Science, 2010, , 202-213. | 1.0 | 5 |
| 52 | Optimizing Helicopter Transport of Oil Rig Crews at Petrobras. Interfaces, 2010, 40, 408-416. | 1.6 | 28 |
| 53 | New Lower Bounds for the Vehicle Routing Problem with Simultaneous Pickup and Delivery. Lecture Notes in Computer Science, 2010, , 276-287. | 1.0 | 16 |
| 54 | A distributed dual ascent algorithm for Steiner problems in multicast routing. Networks, 2009, 53, 170-183. | 1.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A robust branch-cut-and-price algorithm for the heterogeneous fleet vehicle routing problem. Networks, 2009, 54, 167-177. | 1.6 | 51 |
| 56 | A facility location and installation of resources model for level of repair analysis. European Journal of Operational Research, 2009, 192, 479-486. | 3.5 | 28 |
| 57 | Robust branch-cut-and-price for the Capacitated Minimum Spanning Tree problem over a large extended formulation. Mathematical Programming, 2008, 112, 443-472. | 1.6 | 46 |
| 58 | Robust Branch-Cut-and-Price Algorithms for Vehicle Routing Problems. Operations Research/Computer Science Interfaces Series, 2008, , 297-325. | 0.3 | 33 |
| 59 | A Robust Branch-Cut-and-Price Algorithm for the Heterogeneous Fleet Vehicle Routing Problem. , 2007, , 150-160. | | 16 |
| 60 | A Distributed Primal-Dual Heuristic for Steiner Problems in Networks. , 2007, , 175-188. | | 0 |
| 61 | Solving capacitated arc routing problems using a transformation to the CVRP. Computers and Operations Research, 2006, 33, 1823-1837. | 2.4 | 133 |
| 62 | Reduction tests for the prize-collecting Steiner problem. Operations Research Letters, 2006, 34, 437-444. | 0.5 | 22 |
| 63 | A grid-enabled distributed branch-and-bound algorithm with application on the Steiner Problem in graphs. Parallel Computing, 2006, 32, 629-642. | 1.3 | 13 |
| 64 | Robust Branch-and-Cut-and-Price for the Capacitated Vehicle Routing Problem. Mathematical Programming, 2006, 106, 491-511. | 1.6 | 366 |
| 65 | Robust Branch-and-Cut-and-Price for the Capacitated Vehicle Routing Problem. Lecture Notes in Computer Science, 2004, , 1-15. | 1.0 | 21 |
| 66 | New Benchmark Instances for The Steiner Problem in Graphs. Applied Optimization, 2003, , 601-614. | 0.4 | 8 |
| 67 | A Hybrid GRASP with Perturbations for the Steiner Problem in Graphs. INFORMS Journal on Computing, 2002, 14, 228-246. | 1.0 | 125 |
| 68 | Preprocessing Steiner problems from VLSI layout. Networks, 2002, 40, 38-50. | 1.6 | 25 |
| 69 | Solving the Freight Car Flow Problem to Optimality. Electronic Notes in Theoretical Computer Science, 2002, 66, 42-52. | 0.9 | 22 |
| 70 | Vertex-Disjoint Packing of Two Steiner Trees: polyhedra and branch-and-cut. Mathematical Programming, 2001, 90, 537-557. | 1.6 | 2 |
| 71 | Dual Heuristics on the Exact Solution of Large Steiner Problems. Electronic Notes in Discrete Mathematics, 2001, 7, 150-153. | 0.4 | 25 |
| 72 | The $\hat{3}$ -connected assignment problem. European Journal of Operational Research, 1999, 118, 127-138. | 3.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Vertex-Disjoint Packing of Two Steiner Trees: Polyhedra and Branch-and-Cut. Lecture Notes in Computer Science, 1999, , 439-452. | 1.0 | 3 |
| 74 | THE GUIDE TO NP-COMPLETENESS IS 40 YEARS OLD: AN HOMAGE TO DAVID S. JOHNSON. Pesquisa Operacional, 0, 40, . | 0.1 | 0 |