

Claudia D'Ambrosio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4330121/publications.pdf>

Version: 2024-02-01

58
papers

1,350
citations

623734

14
h-index

361022

35
g-index

59
all docs

59
docs citations

59
times ranked

1180
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Aircraft Deconfliction via Mathematical Programming: Review and Insights. <i>Transportation Science</i> , 2022, 56, 118-140. | 4.4 | 10 |
| 2 | Detecting and solving aircraft conflicts using bilevel programming. <i>Journal of Global Optimization</i> , 2021, 81, 529-557. | 1.8 | 7 |
| 3 | A new mixed integer non-linear programming model for optimal PAT and PRV location in water distribution networks. <i>Urban Water Journal</i> , 2021, 18, 394-409. | 2.1 | 26 |
| 4 | Learning discontinuous piecewise affine fitting functions using mixed integer programming over lattice. <i>Journal of Global Optimization</i> , 2021, 81, 85-108. | 1.8 | 0 |
| 5 | Decomposition and shortest path problem formulation for solving the hydro unit commitment and scheduling in a hydro valley. <i>European Journal of Operational Research</i> , 2021, 291, 935-943. | 5.7 | 7 |
| 6 | Algorithms and applications for a class of bilevel MILPs. <i>Discrete Applied Mathematics</i> , 2020, 272, 75-89. | 0.9 | 5 |
| 7 | On a nonconvex MINLP formulation of the Euclidean Steiner tree problem in n-space: missing proofs. <i>Optimization Letters</i> , 2020, 14, 409-415. | 1.6 | 3 |
| 8 | A New Preliminary Model to Optimize PATs Location in a Water Distribution Network. <i>Environmental Sciences Proceedings</i> , 2020, 2, . | 0.3 | 7 |
| 9 | Strong Convex Nonlinear Relaxations of the Pooling Problem. <i>SIAM Journal on Optimization</i> , 2020, 30, 1582-1609. | 2.0 | 6 |
| 10 | Random projections for quadratic programs. <i>Mathematical Programming</i> , 2020, 183, 619-647. | 2.4 | 8 |
| 11 | Lower and upper bounds for the non-linear generalized assignment problem. <i>Computers and Operations Research</i> , 2020, 120, 104933. | 4.0 | 9 |
| 12 | Handling Separable Non-convexities Using Disjunctive Cuts. <i>Lecture Notes in Computer Science</i> , 2020, , 102-114. | 1.3 | 1 |
| 13 | Learning to Configure Mathematical Programming Solvers by Mathematical Programming. <i>Lecture Notes in Computer Science</i> , 2020, , 377-389. | 1.3 | 2 |
| 14 | A Learning-Based Mathematical Programming Formulation for the Automatic Configuration of Optimization Solvers. <i>Lecture Notes in Computer Science</i> , 2020, , 700-712. | 1.3 | 3 |
| 15 | On the Observability of Smart Grids and Related Optimization Methods. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR</i> , 2020, , 281-287. | 0.1 | 0 |
| 16 | Strengthening the sequential convex MINLP technique by perspective reformulations. <i>Optimization Letters</i> , 2019, 13, 673-684. | 1.6 | 4 |
| 17 | Random Projections for Quadratic Programs over a Euclidean Ball. <i>Lecture Notes in Computer Science</i> , 2019, , 442-452. | 1.3 | 4 |
| 18 | e4clim 1.0: The Energy for a Climate Integrated Model: Description and Application to Italy. <i>Energies</i> , 2019, 12, 4299. | 3.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Extrapolating curvature lines in rough concept sketches using mixed-integer nonlinear optimization. <i>Optimization and Engineering</i> , 2019, 20, 337-347. | 2.4 | 1 |
| 20 | Real-world hydro-power unit-commitment: Dealing with numerical errors and feasibility issues. <i>Energy</i> , 2019, 184, 91-104. | 8.8 | 13 |
| 21 | Complex portfolio selection via convex mixed-integer quadratic programming: a survey. <i>International Transactions in Operational Research</i> , 2019, 26, 389-414. | 2.7 | 15 |
| 22 | Flying Safely by Bilevel Programming. <i>AIRO Springer Series</i> , 2019, , 197-206. | 0.6 | 1 |
| 23 | Feasibility pump for aircraft deconfliction with speed regulation. <i>Journal of Global Optimization</i> , 2018, 71, 501-515. | 1.8 | 14 |
| 24 | Complexity and inapproximability results for the Power Edge Set problem. <i>Journal of Combinatorial Optimization</i> , 2018, 35, 895-905. | 1.3 | 3 |
| 25 | On the Product Knapsack Problem. <i>Optimization Letters</i> , 2018, 12, 691-712. | 1.6 | 10 |
| 26 | Relaxations and heuristics for the multiple non-linear separable knapsack problem. <i>Computers and Operations Research</i> , 2018, 93, 79-89. | 4.0 | 10 |
| 27 | Shortest Path Problem variants for the Hydro Unit Commitment Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 69, 309-316. | 0.4 | 5 |
| 28 | An overview on mathematical programming approaches for the deterministic unit commitment problem in hydro valleys. <i>Energy Systems</i> , 2017, 8, 57-79. | 3.0 | 63 |
| 29 | Surrogate-based methods for black-box optimization. <i>International Transactions in Operational Research</i> , 2017, 24, 393-424. | 2.7 | 94 |
| 30 | New Error Measures and Methods for Realizing Protein Graphs from Distance Data. <i>Discrete and Computational Geometry</i> , 2017, 57, 371-418. | 0.6 | 16 |
| 31 | Special issue on: Nonlinear and combinatorial methods for energy optimization. <i>EURO Journal on Computational Optimization</i> , 2017, 5, 1-3. | 2.4 | 0 |
| 32 | MILP models for the selection of a small set of well-distributed points. <i>Operations Research Letters</i> , 2017, 45, 46-52. | 0.7 | 5 |
| 33 | Monomial-wise optimal separable underestimators for mixed-integer polynomial optimization. <i>Journal of Global Optimization</i> , 2017, 67, 759-786. | 1.8 | 6 |
| 34 | A branch-and-bound based heuristic algorithm for convex multi-objective MINLPs. <i>European Journal of Operational Research</i> , 2017, 260, 920-933. | 5.7 | 15 |
| 35 | Distance Geometry in Linearizable Norms. <i>Lecture Notes in Computer Science</i> , 2017, , 830-837. | 1.3 | 6 |
| 36 | The power edge set problem. <i>Networks</i> , 2016, 68, 104-120. | 2.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Heuristics for the General Multiple Non-linear Knapsack Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2016, 55, 69-72. | 0.4 | 2 |
| 38 | Observing the State of a Smart Grid Using Bilevel Programming. <i>Lecture Notes in Computer Science</i> , 2015, , 364-376. | 1.3 | 4 |
| 39 | Mathematical programming techniques in water network optimization. <i>European Journal of Operational Research</i> , 2015, 243, 774-788. | 5.7 | 102 |
| 40 | Optimal Scheduling of a Multiunit Hydro Power Station in a Short-Term Planning Horizon. <i>Profiles in Operations Research</i> , 2015, , 167-181. | 0.4 | 1 |
| 41 | Optimizing the Design of Water Distribution Networks Using Mathematical Optimization. <i>Profiles in Operations Research</i> , 2015, , 183-198. | 0.4 | 1 |
| 42 | On a Nonconvex MINLP Formulation of the Euclidean Steiner Tree Problem in n-Space. <i>Lecture Notes in Computer Science</i> , 2015, , 122-133. | 1.3 | 4 |
| 43 | Optimistic MILP modeling of non-linear optimization problems. <i>European Journal of Operational Research</i> , 2014, 239, 32-45. | 5.7 | 12 |
| 44 | Box-Constrained Mixed-Integer Polynomial Optimization Using Separable Underestimators. <i>Lecture Notes in Computer Science</i> , 2014, , 198-209. | 1.3 | 3 |
| 45 | Mixed integer nonlinear programming tools: an updated practical overview. <i>Annals of Operations Research</i> , 2013, 204, 301-320. | 4.1 | 41 |
| 46 | A storm of feasibility pumps for nonconvex MINLP. <i>Mathematical Programming</i> , 2012, 136, 375-402. | 2.4 | 52 |
| 47 | On the optimal design of water distribution networks: a practical MINLP approach. <i>Optimization and Engineering</i> , 2012, 13, 219-246. | 2.4 | 162 |
| 48 | An Algorithmic Framework for MINLP with Separable Non-Convexity. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012, , 315-347. | 0.5 | 9 |
| 49 | Mixed integer nonlinear programming tools: a practical overview. <i>4or</i> , 2011, 9, 329-349. | 1.6 | 43 |
| 50 | Heuristic algorithms for the general nonlinear separable knapsack problem. <i>Computers and Operations Research</i> , 2011, 38, 505-513. | 4.0 | 15 |
| 51 | Valid Inequalities for the Pooling Problem with Binary Variables. <i>Lecture Notes in Computer Science</i> , 2011, , 117-129. | 1.3 | 14 |
| 52 | Application-oriented mixed integer non-linear programming. <i>4or</i> , 2010, 8, 319-322. | 1.6 | 13 |
| 53 | Piecewise linear approximation of functions of two variables in MILP models. <i>Operations Research Letters</i> , 2010, 38, 39-46. | 0.7 | 140 |
| 54 | On interval-subgradient and no-good cuts. <i>Operations Research Letters</i> , 2010, 38, 341-345. | 0.7 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Experiments with a Feasibility Pump Approach for Nonconvex MINLPs. Lecture Notes in Computer Science, 2010, , 350-360. | 1.3 | 14 |
| 56 | A Global-Optimization Algorithm for Mixed-Integer Nonlinear Programs Having Separable Non-convexity. Lecture Notes in Computer Science, 2009, , 107-118. | 1.3 | 7 |
| 57 | An MILP Approach for Short-Term Hydro Scheduling and Unit Commitment With Head-Dependent Reservoir. IEEE Transactions on Power Systems, 2008, 23, 1115-1124. | 6.5 | 271 |
| 58 | An MINLP Solution Method for a Water Network Problem. Lecture Notes in Computer Science, 2006, , 696-707. | 1.3 | 18 |