Alexander Martin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63 1,631 21 39 g-index

67 1,860 2 4.6 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 63 | Efficient Formulations and Decomposition Approaches for Power Peak Reduction in Railway Traffic via Timetabling. <i>Transportation Science</i> , 2021 , 55, 747-767 | 4.4 | 4 |
| 62 | Solving mixed-integer nonlinear optimization problems using simultaneous convexification: a case study for gas networks. <i>Journal of Global Optimization</i> , 2021 , 80, 307-340 | 1.5 | 1 |
| 61 | Energy-Efficient Timetabling in a German Underground System. <i>Mathematics in Industry</i> , 2021 , 105-112 | 0.2 | |
| 60 | Two-row and two-column mixed-integer presolve using hashing-based pairing methods. <i>EURO Journal on Computational Optimization</i> , 2020 , 8, 205-240 | 1.2 | 3 |
| 59 | Maximizing the storage capacity of gas networks: a global MINLP approach. <i>Optimization and Engineering</i> , 2019 , 20, 543-573 | 2.1 | 7 |
| 58 | MIP-based instantaneous control of mixed-integer PDE-constrained gas transport problems. <i>Computational Optimization and Applications</i> , 2018 , 70, 267-294 | 1.4 | 25 |
| 57 | Towards simulation based mixed-integer optimization with differential equations. <i>Networks</i> , 2018 , 72, 60-83 | 1.6 | 9 |
| 56 | Market-Based Redispatch May Result in Inefficient Dispatch. SSRN Electronic Journal, 2018, | 1 | 5 |
| 55 | A Decomposition Method for Multiperiod Railway Network Expansion With a Case Study for Germany. <i>Transportation Science</i> , 2017 , 51, 1102-1121 | 4.4 | 9 |
| 54 | A comparison of performance metrics for balancing the power consumption of trains in a railway network by slight timetable adaptation. <i>Public Transport</i> , 2017 , 9, 95-113 | 2.1 | 7 |
| 53 | Pricing and clearing combinatorial markets with singleton and swap orders. <i>Mathematical Methods of Operations Research</i> , 2017 , 85, 155-177 | 1 | 2 |
| 52 | Challenges in Optimal Control Problems for Gas and Fluid Flow in Networks of Pipes and Canals: From Modeling to Industrial Applications. <i>Industrial and Applied Mathematics</i> , 2017 , 77-122 | 0.3 | 15 |
| 51 | Transmission and generation investment in electricity markets: The effects of market splitting and network fee regimes. <i>European Journal of Operational Research</i> , 2016 , 254, 493-509 | 5.6 | 74 |
| 50 | On the long run effects of market splitting: Why more price zones might decrease welfare. <i>Energy Policy</i> , 2016 , 94, 453-467 | 7.2 | 31 |
| 49 | Polyhedral approximation of ellipsoidal uncertainty sets via extended formulations: a computational case study. <i>Computational Management Science</i> , 2016 , 13, 151-193 | 1 | 3 |
| 48 | Robust runway scheduling under uncertain conditions. <i>Journal of Air Transport Management</i> , 2016 , 56, 28-37 | 5.1 | 19 |
| 47 | Binary Steiner trees: Structural results and an exact solution approach. <i>Discrete Optimization</i> , 2016 , 21, 85-117 | 1 | 4 |

(2010-2015)

| 46 | Progress in presolving for mixed integer programming. <i>Mathematical Programming Computation</i> , 2015 , 7, 367-398 | 7.8 | 21 |
|----|--|-----|----|
| 45 | Solving network design problems via iterative aggregation. <i>Mathematical Programming Computation</i> , 2015 , 7, 189-217 | 7.8 | 6 |
| 44 | Chapter 6: The MILP-relaxation approach 2015 , 103-122 | | 14 |
| 43 | Validation of nominations in gas network optimization: models, methods, and solutions. <i>Optimization Methods and Software</i> , 2015 , 30, 15-53 | 1.3 | 63 |
| 42 | Strict linear prices in non-convex European day-ahead electricity markets. <i>Optimization Methods and Software</i> , 2014 , 29, 189-221 | 1.3 | 29 |
| 41 | Mathematical optimization for challenging network planning problems in unbundled liberalized gas markets. <i>Energy Systems</i> , 2014 , 5, 449-473 | 1.7 | 26 |
| 40 | How Many Steiner Terminals Can You Connect in 20 Years? 2013 , 215-244 | | 3 |
| 39 | Progress in Academic Computational Integer Programming 2013 , 483-506 | | 6 |
| 38 | Mathematical Models and Polyhedral Studies for Integral Sheet Metal Design. <i>SIAM Journal on Optimization</i> , 2012 , 22, 1493-1517 | 2 | |
| 37 | LP and SDP branch-and-cut algorithms for the minimum graph bisection problem: a computational comparison. <i>Mathematical Programming Computation</i> , 2012 , 4, 275-306 | 7.8 | 14 |
| 36 | Mixed Integer Optimization of Water Supply Networks. <i>International Series of Numerical Mathematics</i> , 2012 , 35-54 | 0.4 | 19 |
| 35 | Nonlinear and Mixed Integer Linear Programming. <i>International Series of Numerical Mathematics</i> , 2012 , 55-65 | 0.4 | |
| 34 | Using Piecewise Linear Functions for Solving MINLPs. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012 , 287-314 | 0.5 | 60 |
| 33 | Mixed integer linear models for the optimization of dynamical transport networks. <i>Mathematical Methods of Operations Research</i> , 2011 , 73, 339-362 | 1 | 27 |
| 32 | Combination of Nonlinear and Linear Optimization of Transient Gas Networks. <i>INFORMS Journal on Computing</i> , 2011 , 23, 605-617 | 2.4 | 50 |
| 31 | Quantified Linear Programs: A Computational Study. <i>Lecture Notes in Computer Science</i> , 2011 , 203-214 | 0.9 | 10 |
| 30 | A mixed integer approach for time-dependent gas network optimization. <i>Optimization Methods and Software</i> , 2010 , 25, 625-644 | 1.3 | 32 |
| 29 | Topology and Dynamic Networks: Optimization with Application in Future Technologies 2010 , 263-276 | | |

| 28 | Efficient reformulation and solution of a nonlinear PDE-controlled flow network model. <i>Computing</i> (Vienna/New York), 2009 , 85, 245-265 | 2.2 | 8 |
|----|--|-------|-----|
| 27 | Topologie und Dynamische Netzwerke: Anwendungen Der Optimierung MIT Zukunft 2009 , 323-338 | | |
| 26 | On the Graph Bisection Cut Polytope. SIAM Journal on Discrete Mathematics, 2008, 22, 1073-1098 | 0.7 | 5 |
| 25 | Scheduling Locomotives and Car Transfers in Freight Transport. <i>Transportation Science</i> , 2008 , 42, 478-4 | 94.4 | 9 |
| 24 | A Comparative Study of Linear and Semidefinite Branch-and-Cut Methods for Solving the Minimum Graph Bisection Problem 2008 , 112-124 | | 11 |
| 23 | A simulated annealing algorithm for transient optimization in gas networks. <i>Mathematical Methods of Operations Research</i> , 2007 , 66, 99-115 | 1 | 35 |
| 22 | Combinatorial and Continuous Models for the Optimization of Traffic Flows on Networks. <i>SIAM Journal on Optimization</i> , 2006 , 16, 1155-1176 | 2 | 38 |
| 21 | MIPLIB 2003. Operations Research Letters, 2006, 34, 361-372 | 1 | 120 |
| 20 | A multicriteria approach for optimizing bus schedules and school starting times. <i>Annals of Operations Research</i> , 2006 , 147, 199-216 | 3.2 | 6 |
| 19 | Mixed Integer Models for the Stationary Case of Gas Network Optimization. <i>Mathematical Programming</i> , 2006 , 105, 563-582 | 2.1 | 159 |
| 18 | UMTS radio network evaluation and optimization beyond snapshots. <i>Mathematical Methods of Operations Research</i> , 2006 , 63, 1-29 | 1 | 23 |
| 17 | Hybrid Genetic Algorithm Within Branch-and-Cut for the Minimum Graph Bisection Problem. <i>Lecture Notes in Computer Science</i> , 2006 , 1-12 | 0.9 | 5 |
| 16 | Computational Integer Programming and Cutting Planes. <i>Handbooks in Operations Research and Management Science</i> , 2005 , 12, 69-121 | | 17 |
| 15 | Branching rules revisited. <i>Operations Research Letters</i> , 2005 , 33, 42-54 | 1 | 255 |
| 14 | Cutting Planes for the Optimisation of Gas Networks 2005 , 307-329 | | 3 |
| 13 | Optimisation Methods for UMTS Radio Network Planning. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vortr</i> g e <i>Der Jahrestagung / DGOR</i> , 2004 , 31-38 | 0.1 | 5 |
| 12 | Cutting planes in integer and mixed integer programming. Discrete Applied Mathematics, 2002, 123, 39 | 7-446 | 117 |
| 11 | General Mixed Integer Programming: Computational Issues for Branch-and-Cut Algorithms. <i>Lecture Notes in Computer Science</i> , 2001 , 1-25 | 0.9 | 18 |

LIST OF PUBLICATIONS

| Routing Through Virtual Paths in , 47, 693-702 | Layered Telecommunication Networks. Operations Research, 1999 | 2.3 | 30 |
|--|--|----------------|----|
| 8 Decomposing Matrices into Block | ss. SIAM Journal on Optimization, 1998 , 9, 236-269 | 2 | 45 |
| 7 The Intersection of Knapsack Poly | yhedra and Extensions. <i>Lecture Notes in Computer Science</i> , 1998 , 243-2 | 2 56 .9 | 6 |
| 6 Solving Multiple Knapsack Proble | rms by Cutting Planes. SIAM Journal on Optimization, 1996 , 6, 858-877 | 2 | 50 |
| 5 Packing Steiner Trees: Separation | Algorithms. SIAM Journal on Discrete Mathematics, 1996 , 9, 233-257 | 0.7 | 15 |
| Routing in grid graphs by cutting 4 41, 255-275 | planes. Zeitschrift Fuer Operations-Research, Serie B: Praxis, 1995, | | 2 |
| Quadratic 0/1 optimization and a <i>Mathematical Programming</i> , 1994 | decomposition approach for the placement of electronic circuits. 63, 257-279 | 2.1 | 27 |
| Some integer programs arising in Operations-Research, Serie B: Prax | the design of main frame computers. <i>Zeitschrift Fuer</i> cis, 1993 , 38, 77-100 | | 4 |
| Transient gas pipeline flow: analy quasi-static approach. <i>Optimizatio</i> | rtical examples, numerical simulation and a comparison to the on and Engineering,1 | 2.1 | |