

Marcus

List of Publications by Year in descending order

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91
papers

1,251
citations

516710
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30
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91
all docs

91
docs citations

91
times ranked

1090
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Optimal Charging of Electric Vehicles Taking Distribution Network Constraints Into Account. IEEE Transactions on Power Systems, 2015, 30, 365-375. | 6.5 | 181 |
| 2 | A Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cells. Journal of the Electrochemical Society, 2015, 162, A1592-A1600. | 2.9 | 84 |
| 3 | A Market Mechanism for Electric Vehicle Charging Under Network Constraints. IEEE Transactions on Smart Grid, 2016, 7, 827-836. | 9.0 | 66 |
| 4 | On the history of the Euclidean Steiner tree problem. Archive for History of Exact Sciences, 2014, 68, 327-354. | 0.5 | 58 |
| 5 | Translational packing of arbitrary polytopes. Computational Geometry: Theory and Applications, 2009, 42, 269-288. | 0.5 | 47 |
| 6 | Power Sharing in Angle Droop Controlled Microgrids. IEEE Transactions on Power Systems, 2017, 32, 4743-4751. | 6.5 | 45 |
| 7 | A Multi-Factor Battery Cycle Life Prediction Methodology for Optimal Battery Management. , 2015, , . | | 40 |
| 8 | Network optimization for the design of underground mines. Networks, 2007, 49, 40-50. | 2.7 | 35 |
| 9 | Electric vehicle charging and grid constraints: Comparing distributed and centralized approaches. , 2013, , . | | 33 |
| 10 | Optimisation in Underground Mining. , 2007, , 561-577. | | 32 |
| 11 | The importance of spatial distribution when analysing the impact of electric vehicles on voltage stability in distribution networks. Energy Systems, 2015, 6, 63-84. | 3.0 | 32 |
| 12 | Optimal Interconnection Trees in the Plane. Algorithms and Combinatorics, 2015, , . | 0.6 | 28 |
| 13 | Combined optimisation of an open-pit mine outline and the transition depth to underground mining. European Journal of Operational Research, 2018, 268, 624-634. | 5.7 | 28 |
| 14 | Bayesian node localisation in wireless sensor networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 26 |
| 15 | Minimum Networks in Uniform Orientation Metrics. SIAM Journal on Computing, 2000, 30, 1579-1593. | 1.0 | 25 |
| 16 | Gradient-constrained minimum networks. I. Fundamentals. Journal of Global Optimization, 2001, 21, 139-155. | 1.8 | 24 |
| 17 | Optimising declines in underground mines. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2003, 112, 164-170. | 0.8 | 24 |
| 18 | Cost Optimisation for Underground Mining Networks. Optimization and Engineering, 2005, 6, 241-256. | 2.4 | 20 |

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|----|--|-----|-----------|
| 19 | Hyperbolic Positioning Using RIPS Measurements for Wireless Sensor Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , . | 0.0 | 17 |
| 20 | Minimal Steiner Trees for $2k \times 2k$ Square Lattices. Journal of Combinatorial Theory - Series A, 1996, 73, 91-110. | 0.8 | 16 |
| 21 | Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics. Algorithmica, 2006, 44, 281-300. | 1.3 | 16 |
| 22 | A novel approach to phylogenetic trees: d -Dimensional geometric Steiner trees. Networks, 2009, 53, 104-111. | 2.7 | 15 |
| 23 | Curvature-constrained directional-cost paths in the plane. Journal of Global Optimization, 2012, 53, 663-681. | 1.8 | 15 |
| 24 | Decline design in underground mines using constrained path optimisation. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2008, 117, 93-99. | 0.8 | 14 |
| 25 | Growth functions for some nonautomatic Baumslag-Solitar groups. Transactions of the American Mathematical Society, 1994, 342, 137-154. | 0.9 | 14 |
| 26 | A Physarum-Inspired Algorithm for Minimum-Cost Relay Node Placement in Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2020, 28, 681-694. | 3.8 | 13 |
| 27 | Minimal Steiner Trees for Rectangular Arrays of Lattice Points. Journal of Combinatorial Theory - Series A, 1997, 79, 181-208. | 0.8 | 12 |
| 28 | Full Minimal Steiner Trees on Lattice Sets. Journal of Combinatorial Theory - Series A, 1997, 78, 51-91. | 0.8 | 12 |
| 29 | Gradient-constrained minimal Steiner trees. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1998, , 23-38. | 0.0 | 11 |
| 30 | MONOID GROWTH FUNCTIONS FOR BRAID GROUPS. International Journal of Algebra and Computation, 1991, 01, 201-205. | 0.5 | 10 |
| 31 | Steiner trees for fixed orientation metrics. Journal of Global Optimization, 2009, 43, 141-169. | 1.8 | 10 |
| 32 | The bottleneck 2-connected k -Steiner network problem for k . Discrete Applied Mathematics, 2012, 160, 1028-1038. | 0.9 | 10 |
| 33 | On making energy demand and network constraints compatible in the last mile of the power grid. Annual Reviews in Control, 2014, 38, 243-258. | 7.9 | 10 |
| 34 | Local measurements and virtual pricing signals for residential demand side management. Sustainable Energy, Grids and Networks, 2015, 4, 62-71. | 3.9 | 10 |
| 35 | Generalised k -Steiner Tree Problems in Normed Planes. Algorithmica, 2015, 71, 66-86. | 1.3 | 10 |
| 36 | On the Complexity of the Steiner Problem. Journal of Combinatorial Optimization, 2000, 4, 187-195. | 1.3 | 9 |

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|----|--|-----|-----------|
| 37 | The Fast Heuristic Algorithms and Post-Processing Techniques to Design Large and Low-Cost Communication Networks. IEEE/ACM Transactions on Networking, 2019, 27, 375-388. | 3.8 | 9 |
| 38 | Network modelling of underground mine layout: two case studies. International Transactions in Operational Research, 2007, 14, 143-158. | 2.7 | 8 |
| 39 | Gradient-constrained minimum networks (II). Labelled or locally minimal Steiner points. Journal of Global Optimization, 2008, 42, 23-37. | 1.8 | 8 |
| 40 | Improving Underground Mine Access Layouts Using Software Tools. Interfaces, 2014, 44, 195-203. | 1.5 | 8 |
| 41 | Optimum ramp design in open pit mines. Computers and Operations Research, 2020, 115, 104739. | 4.0 | 8 |
| 42 | Maximal Subgroups of Infinite Symmetric Groups. Proceedings of the London Mathematical Society, 1994, s3-68, 77-111. | 1.3 | 7 |
| 43 | Locally minimal uniformly oriented shortest networks. Discrete Applied Mathematics, 2006, 154, 2545-2564. | 0.9 | 7 |
| 44 | Relay augmentation for lifetime extension of wireless sensor networks. IET Wireless Sensor Systems, 2013, 3, 145-152. | 1.7 | 7 |
| 45 | A distributed electric vehicle charging management algorithm using only local measurements. , 2014, , . | | 7 |
| 46 | Power sharing correction in angle droop controlled inverter interfaced microgrids. , 2015, , . | | 7 |
| 47 | Stability and active power sharing in droop controlled inverter interfaced microgrids: Effect of clock mismatches. Automatica, 2018, 93, 469-475. | 5.0 | 7 |
| 48 | Maximizing the net present value of a Steiner tree. Journal of Global Optimization, 2015, 62, 391-407. | 1.8 | 6 |
| 49 | Steiner Minimum Trees in Uniform Orientation Metrics. Combinatorial Optimization, 2001, , 1-27. | 0.7 | 6 |
| 50 | Growth functions for some one-relator monoids. Communications in Algebra, 1993, 21, 3135-3146. | 0.6 | 5 |
| 51 | Forbidden subpaths for Steiner minimum networks in uniform orientation metrics. Networks, 2002, 39, 186-202. | 2.7 | 5 |
| 52 | Upper and Lower Bounds for the Lengths of Steiner Trees in 3-Space. Geometriae Dedicata, 2004, 109, 107-119. | 0.3 | 5 |
| 53 | Modeling reversible self-discharge in series-connected Li-ion battery cells. , 2013, , . | | 5 |
| 54 | Electric Vehicle Charging: A Noncooperative Game Using Local Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5426-5431. | 0.4 | 5 |

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|----|---|-----|-----------|
| 55 | Flexibility of Steiner trees in uniform orientation metrics. <i>Networks</i> , 2005, 46, 142-153. | 2.7 | 4 |
| 56 | Approximating minimum Steiner point trees in Minkowski planes. <i>Networks</i> , 2010, 56, 244-254. | 2.7 | 4 |
| 57 | THE UNIFORM ORIENTATION STEINER TREE PROBLEM IS NP-HARD. <i>International Journal of Computational Geometry and Applications</i> , 2014, 24, 87-105. | 0.5 | 4 |
| 58 | A geometric characterisation of the quadratic min-power centre. <i>European Journal of Operational Research</i> , 2014, 233, 34-42. | 5.7 | 4 |
| 59 | Comment on "A Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cells" [1]. <i>Electrochem. Soc.</i> , 162, A1592 (2015)]. <i>Journal of the Electrochemical Society</i> , 2015, 162, Y11-Y12. | 2.9 | 4 |
| 60 | Gradient-constrained discounted Steiner trees II: optimally locating a discounted Steiner point. <i>Journal of Global Optimization</i> , 2016, 64, 515-532. | 1.8 | 4 |
| 61 | Optimally locating a junction point for an underground mine to maximise the net present value. <i>ANZIAM Journal</i> , 0, 54, 315. | 0.0 | 4 |
| 62 | A polynomial time algorithm for rectilinear Steiner trees with terminals constrained to curves. <i>Networks</i> , 1999, 33, 145-155. | 2.7 | 3 |
| 63 | Gradient-Constrained Minimum Networks. III. Fixed Topology. <i>Journal of Optimization Theory and Applications</i> , 2012, 155, 336-354. | 1.5 | 3 |
| 64 | Optimal curvature-constrained paths for general directional-cost functions. <i>Optimization and Engineering</i> , 2013, 14, 395-416. | 2.4 | 3 |
| 65 | Siting and sizing distributed storage for microgrid applications. , 2017, , . | | 3 |
| 66 | Strategic Underground Mine Access Design to Maximise the Net Present Value. , 2018, , 607-624. | | 3 |
| 67 | Minimal curvature-constrained networks. <i>Journal of Global Optimization</i> , 2018, 72, 71-87. | 1.8 | 3 |
| 68 | Solving the prize-collecting Euclidean Steiner tree problem. <i>International Transactions in Operational Research</i> , 2022, 29, 1479-1501. | 2.7 | 3 |
| 69 | Rotationally optimal spanning and Steiner trees in uniform orientation metrics. <i>Computational Geometry: Theory and Applications</i> , 2004, 29, 251-263. | 0.5 | 2 |
| 70 | On the effect of component mismatches in inverter interfaced microgrids. , 2014, , . | | 2 |
| 71 | A flow-dependent quadratic steiner tree problem in the Euclidean plane. <i>Networks</i> , 2014, 64, 18-28. | 2.7 | 2 |
| 72 | Analysis of Constraints for Optimal Electric Vehicle Charging. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 7879-7885. | 0.4 | 2 |

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|----|---|-----|-----------|
| 73 | Optimal curvature and gradient-constrained directional cost paths in 3-space. Journal of Global Optimization, 2015, 62, 507-527. | 1.8 | 2 |
| 74 | Gradient-constrained discounted Steiner trees I: optimal tree configurations. Journal of Global Optimization, 2016, 64, 497-513. | 1.8 | 2 |
| 75 | Computing minimum 2-edge-connected Steiner networks in the Euclidean plane. Networks, 2019, 73, 89-103. | 2.7 | 2 |
| 76 | Scheduling the construction of value and discount weighted trees for maximum net present value. Computers and Operations Research, 2020, 115, 104578. | 4.0 | 2 |
| 77 | Computing Skeletons for Rectilinearly Convex Obstacles in the Rectilinear Plane. Journal of Optimization Theory and Applications, 2020, 186, 102-133. | 1.5 | 2 |
| 78 | A mathematical model for mineable pushback designs. International Journal of Mining, Reclamation and Environment, 2021, 35, 523-539. | 2.8 | 2 |
| 79 | A model for open-pit pushback design with operational constraints. Optimization and Engineering, 0, , 1. | 2.4 | 2 |
| 80 | The Gilbert arborescence problem. Networks, 2013, 61, 238-247. | 2.7 | 1 |
| 81 | MINIMAL CURVATURE-CONSTRAINED PATHS IN THE PLANE WITH A CONSTRAINT ON ARCS WITH OPPOSITE ORIENTATIONS. International Journal of Computational Geometry and Applications, 2013, 23, 171-196. | 0.5 | 1 |
| 82 | An exact algorithm for the bottleneck 2-connected k -Steiner network problem in L_p planes. Discrete Applied Mathematics, 2016, 201, 47-69. | 0.9 | 1 |
| 83 | Overcoming the Impact of Clock Drifts on Power Sharing for Microgrids. , 2018, , . | | 1 |
| 84 | New pruning rules for the Steiner tree problem and 2-connected Steiner network problem. Computational Geometry: Theory and Applications, 2019, 78, 37-49. | 0.5 | 1 |
| 85 | Gradient-Constrained Minimum Interconnection Networks. , 2013, , 1459-1510. | | 1 |
| 86 | Steiner Trees with Other Cost Functions and Constraints. Algorithms and Combinatorics, 2015, , 219-299. | 0.6 | 1 |
| 87 | Time delayed discounted Steiner trees to locate two or more discounted Steiner points. ANZIAM Journal, 0, 57, 253. | 0.0 | 1 |
| 88 | Minimum Steiner trees on a set of concyclic points and their center. International Transactions in Operational Research, 0, , . | 2.7 | 0 |
| 89 | Computational complexity of the 2-connected Steiner network problem in the \mathbb{R}^2 plane. Theoretical Computer Science, 2021, 850, 168-184. | 0.9 | 0 |
| 90 | Fixed Orientation Steiner Trees. Algorithms and Combinatorics, 2015, , 83-150. | 0.6 | 0 |

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|----|--|-----|-----------|
| 91 | OPTIMAL LOCATION OF AN UNDERGROUND CONNECTOR USING DISCOUNTED STEINER TREE THEORY. ANZIAM Journal, 2020, 62, 334-351. | 0.2 | 0 |