# Martin Tvede Zachariasen

List of Publications by Year
in descending order

| 44 papers | 779 citations | 623734 14 h-index | 552781 26 g-index |
|---|---|---|---|
| 46 all docs | 46 docs citations | 46 times ranked | 413 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Guided Local Search for the Three-Dimensional Bin-Packing Problem. INFORMS Journal on Computing, 2003, 15, 267-283. | 1.7 | 167 |
| 2 | Euclidean Steiner minimum trees: An improved exact algorithm. Networks, 1997, 30, 149-166. | 2.7 | 66 |
| 3 | On the history of the Euclidean Steiner tree problem. Archive for History of Exact Sciences, 2014, 68, 327-354. | 0.5 | 58 |
| 4 | Rectilinear full Steiner tree generation. Networks, 1999, 33, 125-143. | 2.7 | 45 |
| 5 | Divisor-Based Biproportional Apportionment in Electoral Systems: A Real-Life Benchmark Study. Management Science, 2010, 56, 373-387. | 4.1 | 35 |
| 6 | Obstacle-Avoiding Euclidean Steiner Trees in the Plane: An Exact Algorithm. Lecture Notes in Computer Science, 1999, , 286-299. | 1.3 | 31 |
| 7 | A catalog of Hanan grid problems. Networks, 2001, 38, 76-83. | 2.7 | 28 |
| 8 | Optimal Interconnection Trees in the Plane. Algorithms and Combinatorics, 2015, , . | 0.6 | 28 |
| 9 | The GeoSteiner software package for computing Steiner trees in the plane: an updated computational study. Mathematical Programming Computation, 2018, 10, 487-532. | 4.8 | 24 |
| 10 | Concatenation-Based Greedy Heuristics for the Euclidean Steiner Tree Problem. Algorithmica, 1999, 25, 418-437. | 1.3 | 22 |
| 11 | Local search for the Steiner tree problem in the Euclidean plane. European Journal of Operational Research, 1999, 119, 282-300. | 5.7 | 19 |
| 12 | An Exact Algorithm for the Uniformly-Oriented Steiner Tree Problem. Lecture Notes in Computer Science, 2002, , 760-772. | 1.3 | 19 |
| 13 | Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics. Algorithmica, 2006, 44, 281-300. | 1.3 | 16 |
| 14 | Euclidean Steiner minimum trees: An improved exact algorithm. Networks, 1997, 30, 149-166. | 2.7 | 16 |
| 15 | Short trees in polygons. Discrete Applied Mathematics, 2002, 118, 55-72. | 0.9 | 15 |
| 16 | A novel approach to phylogenetic trees: $d$-Dimensional geometric Steiner trees. Networks, 2009, 53, 104-111. | 2.7 | 15 |
| 17 | Delay-related secondary objectives for rectilinear Steiner minimum trees. Discrete Applied Mathematics, 2004, 136, 271-298. | 0.9 | 14 |
| 18 | Guided Local Search for Final Placement in VLSI Design. Journal of Heuristics, 2003, 9, 269-295. | 1.4 | 13 |

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|---|---------|-----|-----------|
| 19 | Rectilinear group Steiner trees and applications in VLSI design. Mathematical Programming, 2003, 94, 407-433. | 2.4 | 13 |
| 20 | Two-connected Steiner networks: structural properties. Operations Research Letters, 2005, 33, 395-402. | 0.7 | 13 |
| 21 | Geometric Minimum Spanning Trees via Well-Separated Pair Decompositions. Journal of Experimental Algorithmics, 2001, 6, 6. | 1.0 | 11 |
| 22 | Steiner trees for fixed orientation metrics. Journal of Global Optimization, 2009, 43, 141-169. | 1.8 | 10 |
| 23 | Optimal routing with failure-independent path protection. Networks, 2010, 55, 125-137. | 2.7 | 10 |
| 24 | The Rectilinear Steiner Tree Problem: A Tutorial. Combinatorial Optimization, 2001, , 467-507. | 0.7 | 9 |
| 25 | Construction of Minimum-Weight Spanners. Lecture Notes in Computer Science, 2004, , 797-808. | 1.3 | 9 |
| 26 | Fast and Compact Oracles for Approximate Distances in Planar Graphs. , 2007, , 657-668. | | 9 |
| 27 | On the location of Steiner points in uniformly-oriented Steiner trees. Information Processing Letters, 2002, 83, 237-241. | 0.6 | 8 |
| 28 | Bounding component sizes of two-connected Steiner networks. Information Processing Letters, 2007, 104, 159-163. | 0.6 | 8 |
| 29 | Weighted Euclidean Steiner Trees for Disaster-Aware Network Design. , 2019, , . | | 7 |
| 30 | Flexibility of Steiner trees in uniform orientation metrics. Networks, 2005, 46, 142-153. | 2.7 | 4 |
| 31 | Heuristic methods for shared backup path protection planning. , 2012, , . | | 4 |
| 32 | THE UNIFORM ORIENTATION STEINER TREE PROBLEM IS NP-HARD. International Journal of Computational Geometry and Applications, 2014, 24, 87-105. | 0.5 | 4 |
| 33 | Local search for final placement in VLSI design. , 0, , . | | 3 |
| 34 | Have a nice trip: an algorithm for identifying excess routes under satisfaction constraints. International Journal of Geographical Information Science, 2010, 24, 1745-1758. | 4.8 | 3 |
| 35 | Rotationally optimal spanning and Steiner trees in uniform orientation metrics. Computational Geometry: Theory and Applications, 2004, 29, 251-263. | 0.5 | 2 |
| 36 | Comment on "Computing the shortest network under a fixed topology. IEEE Transactions on Computers, 2006, 55, 783-784. | 3.4 | 2 |

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|---|---------|----|-----------|
| 37 | Computing minimum 2‐edge‐connected Steiner networks in the Euclidean plane. Networks, 2019, 73, 89-103. | 2.7 | 2 |
| 38 | Flexibility of Steiner Trees in Uniform Orientation Metrics. Lecture Notes in Computer Science, 2004, , 196-208. | 1.3 | 2 |
| 39 | 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 |
| 40 | Steiner Trees with Other Cost Functions and Constraints. Algorithms and Combinatorics, 2015, , 219-299. | 0.6 | 1 |
| 41 | Rectilinear Steiner Trees. Algorithms and Combinatorics, 2015, , 151-218. | 0.6 | 1 |
| 42 | Heuristic methods for single link shared backup path protection. Journal of Heuristics, 2014, 20, 539-560. | 1.4 | 0 |
| 43 | Fixed Orientation Steiner Trees. Algorithms and Combinatorics, 2015, , 83-150. | 0.6 | 0 |
| 44 | Enhancing Availability for Critical Services. Computer Communications and Networks, 2020, , 557-581. | 0.8 | 0 |