

# Martin Tvede Zachariassen

## List of Publications by Year in descending order

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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	Enhancing Availability for Critical Services. Computer Communications and Networks, 2020, , 557-581.	0.8	0
2	Computing minimum 2-edge-connected Steiner networks in the Euclidean plane. Networks, 2019, 73, 89-103.	2.7	2
3	Weighted Euclidean Steiner Trees for Disaster-Aware Network Design. , 2019, , .		7
4	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
5	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
6	Optimal Interconnection Trees in the Plane. Algorithms and Combinatorics, 2015, , .	0.6	28
7	Fixed Orientation Steiner Trees. Algorithms and Combinatorics, 2015, , 83-150.	0.6	0
8	Steiner Trees with Other Cost Functions and Constraints. Algorithms and Combinatorics, 2015, , 219-299.	0.6	1
9	Rectilinear Steiner Trees. Algorithms and Combinatorics, 2015, , 151-218.	0.6	1
10	THE UNIFORM ORIENTATION STEINER TREE PROBLEM IS NP-HARD. International Journal of Computational Geometry and Applications, 2014, 24, 87-105.	0.5	4
11	On the history of the Euclidean Steiner tree problem. Archive for History of Exact Sciences, 2014, 68, 327-354.	0.5	58
12	Heuristic methods for single link shared backup path protection. Journal of Heuristics, 2014, 20, 539-560.	1.4	0
13	Heuristic methods for shared backup path protection planning. , 2012, , .		4
14	Divisor-Based Biproportional Apportionment in Electoral Systems: A Real-Life Benchmark Study. Management Science, 2010, 56, 373-387.	4.1	35
15	Optimal routing with failure-independent path protection. Networks, 2010, 55, 125-137.	2.7	10
16	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
17	A novel approach to phylogenetic trees: $d$ -Dimensional geometric Steiner trees. Networks, 2009, 53, 104-111.	2.7	15
18	Steiner trees for fixed orientation metrics. Journal of Global Optimization, 2009, 43, 141-169.	1.8	10

#	ARTICLE	IF	CITATIONS
19	Bounding component sizes of two-connected Steiner networks. Information Processing Letters, 2007, 104, 159-163.	0.6	8
20	Fast and Compact Oracles for Approximate Distances in Planar Graphs. , 2007, , 657-668.		9
21	Comment on "Computing the shortest network under a fixed topology. IEEE Transactions on Computers, 2006, 55, 783-784.	3.4	2
22	Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics. Algorithmica, 2006, 44, 281-300.	1.3	16
23	Two-connected Steiner networks: structural properties. Operations Research Letters, 2005, 33, 395-402.	0.7	13
24	Flexibility of Steiner trees in uniform orientation metrics. Networks, 2005, 46, 142-153.	2.7	4
25	Rotationally optimal spanning and Steiner trees in uniform orientation metrics. Computational Geometry: Theory and Applications, 2004, 29, 251-263.	0.5	2
26	Delay-related secondary objectives for rectilinear Steiner minimum trees. Discrete Applied Mathematics, 2004, 136, 271-298.	0.9	14
27	Construction of Minimum-Weight Spanners. Lecture Notes in Computer Science, 2004, , 797-808.	1.3	9
28	Flexibility of Steiner Trees in Uniform Orientation Metrics. Lecture Notes in Computer Science, 2004, , 196-208.	1.3	2
29	Guided Local Search for Final Placement in VLSI Design. Journal of Heuristics, 2003, 9, 269-295.	1.4	13
30	Rectilinear group Steiner trees and applications in VLSI design. Mathematical Programming, 2003, 94, 407-433.	2.4	13
31	Guided Local Search for the Three-Dimensional Bin-Packing Problem. INFORMS Journal on Computing, 2003, 15, 267-283.	1.7	167
32	Short trees in polygons. Discrete Applied Mathematics, 2002, 118, 55-72.	0.9	15
33	On the location of Steiner points in uniformly-oriented Steiner trees. Information Processing Letters, 2002, 83, 237-241.	0.6	8
34	An Exact Algorithm for the Uniformly-Oriented Steiner Tree Problem. Lecture Notes in Computer Science, 2002, , 760-772.	1.3	19
35	A catalog of Hanan grid problems. Networks, 2001, 38, 76-83.	2.7	28
36	The Rectilinear Steiner Tree Problem: A Tutorial. Combinatorial Optimization, 2001, , 467-507.	0.7	9

#	ARTICLE	IF	CITATIONS
37	Geometric Minimum Spanning Trees via Well-Separated Pair Decompositions. Journal of Experimental Algorithmics, 2001, 6, 6.	1.0	11
38	Local search for the Steiner tree problem in the Euclidean plane. European Journal of Operational Research, 1999, 119, 282-300.	5.7	19
39	Concatenation-Based Greedy Heuristics for the Euclidean Steiner Tree Problem. Algorithmica, 1999, 25, 418-437.	1.3	22
40	Rectilinear full Steiner tree generation. Networks, 1999, 33, 125-143.	2.7	45
41	Obstacle-Avoiding Euclidean Steiner Trees in the Plane: An Exact Algorithm. Lecture Notes in Computer Science, 1999, , 286-299.	1.3	31
42	Euclidean Steiner minimum trees: An improved exact algorithm. Networks, 1997, 30, 149-166.	2.7	66
43	Euclidean Steiner minimum trees: An improved exact algorithm. Networks, 1997, 30, 149-166.	2.7	16
44	Local search for final placement in VLSI design. , 0, , .		3