Doreen A Thomas

List of Publications by Year
in descending order

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91 papers	1,235 citations	471371 17 h-index	414303 32 g-index
91 all docs	91 docs citations	91 times ranked	1044 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.	4.6	181
2	A Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cells. Journal of the Electrochemical Society, 2015, 162, A1592-A1600.	1.3	84
3	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks. I. Input selectivityâ€“strengthening correlated input pathways. Biological Cybernetics, 2009, 101, 81-102.	0.6	66
4	A Market Mechanism for Electric Vehicle Charging Under Network Constraints. IEEE Transactions on Smart Grid, 2016, 7, 827-836.	6.2	66
5	A variational approach to the Steiner network problem. Annals of Operations Research, 1991, 33, 481-499.	2.6	59
6	On the history of the Euclidean Steiner tree problem. Archive for History of Exact Sciences, 2014, 68, 327-354.	0.2	58
7	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks IV. Biological Cybernetics, 2009, 101, 427-444.	0.6	53
8	Power Sharing in Angle Droop Controlled Microgrids. IEEE Transactions on Power Systems, 2017, 32, 4743-4751.	4.6	45
9	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks. II. Input selectivityâ€”symmetry breaking. Biological Cybernetics, 2009, 101, 103-114.	0.6	40
10	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks III: Partially connected neurons driven by spontaneous activity. Biological Cybernetics, 2009, 101, 411-426.	0.6	40
11	Electric vehicle charging and grid constraints: Comparing distributed and centralized approaches. , 2013, , .		33
12	The importance of spatial distribution when analysing the impact of electric vehicles on voltage stability in distribution networks. Energy Systems, 2015, 6, 63-84.	1.8	32
13	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks V: self-organization schemes and weight dependence. Biological Cybernetics, 2010, 103, 365-386.	0.6	27
14	Minimum Networks in Uniform Orientation Metrics. SIAM Journal on Computing, 2000, 30, 1579-1593.	0.8	25
15	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
16	Graham's problem on shortest networks for points on a circle. Algorithmica, 1992, 7, 193-218.	1.0	23
17	Delay Selection by Spike-Timing-Dependent Plasticity in Recurrent Networks of Spiking Neurons Receiving Oscillatory Inputs. PLoS Computational Biology, 2013, 9, e1002897.	1.5	21
18	Cost Optimisation for Underground Mining Networks. Optimization and Engineering, 2005, 6, 241-256.	1.3	20

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19	Steiner Trees for Terminals Constrained to Curves. SIAM Journal on Discrete Mathematics, 1997, 10, 1-17.	0.4	18
20	Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics. Algorithmica, 2006, 44, 281-300.	1.0	16
21	Curvature-constrained directional-cost paths in the plane. Journal of Global Optimization, 2012, 53, 663-681.	1.1	15
22	Minimum Networks for Four Points in Space. Geometriae Dedicata, 2002, 93, 57-70.	0.1	14
23	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
24	Degree-five Steiner points cannot reduce network costs for planar sets. Networks, 1992, 22, 531-537.	1.6	12
25	Modeling and validation of an unbalanced LV network using Smart Meter and SCADA inputs. , 2013, , .		12
26	The bottleneck 2-connected <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-Steiner network problem for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi><mml:mo>â‰¥</mml:mo><mml:mn>2</mml:mn></mml:math>. Discrete Applied Mathematics, 2012, 160, 1028-1038.	0.5	10
27	On making energy demand and network constraints compatible in the last mile of the power grid. Annual Reviews in Control, 2014, 38, 243-258.	4.4	10
28	Local measurements and virtual pricing signals for residential demand side management. Sustainable Energy, Grids and Networks, 2015, 4, 62-71.	2.3	10
29	Generalised k-Steiner Tree Problems in Normed Planes. Algorithmica, 2015, 71, 66-86.	1.0	10
30	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.	2.6	9
31	Network modelling of underground mine layout: two case studies. International Transactions in Operational Research, 2007, 14, 143-158.	1.8	8
32	Gradient-constrained minimum networks (II). Labelled or locally minimal Steiner points. Journal of Global Optimization, 2008, 42, 23-37.	1.1	8
33	Representation of input structure in synaptic weights by spike-timing-dependent plasticity. Physical Review E, 2010, 82, 021912.	0.8	8
34	Improving Underground Mine Access Layouts Using Software Tools. Interfaces, 2014, 44, 195-203.	1.6	8
35	Optimum ramp design in open pit mines. Computers and Operations Research, 2020, 115, 104739.	2.4	8
36	Relay augmentation for lifetime extension of wireless sensor networks. IET Wireless Sensor Systems, 2013, 3, 145-152.	1.3	7

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37	A distributed electric vehicle charging management algorithm using only local measurements. , 2014, , .		7
38	Power sharing correction in angle droop controlled inverter interfaced microgrids. , 2015, , .		7
39	Stability and active power sharing in droop controlled inverter interfaced microgrids: Effect of clock mismatches. Automatica, 2018, 93, 469-475.	3.0	7
40	Maximizing the net present value of a Steiner tree. Journal of Global Optimization, 2015, 62, 391-407.	1.1	6
41	The Steiner ratio conjecture for cocircular points. Discrete and Computational Geometry, 1992, 7, 77-86.	0.4	5
42	Forbidden subpaths for Steiner minimum networks in uniform orientation metrics. Networks, 2002, 39, 186-202.	1.6	5
43	Upper and Lower Bounds for the Lengths of Steiner Trees in 3-Space. Geometriae Dedicata, 2004, 109, 107-119.	0.1	5
44	Modeling reversible self-discharge in series-connected Li-ion battery cells. , 2013, , .		5
45	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
46	Approximating minimum Steiner point trees in Minkowski planes. Networks, 2010, 56, 244-254.	1.6	4
47	Maximum Parsimony, Substitution Model, and Probability Phylogenetic Trees. Journal of Computational Biology, 2011, 18, 67-80.	0.8	4
48	Coexistence of Reward and Unsupervised Learning During the Operant Conditioning of Neural Firing Rates. PLoS ONE, 2014, 9, e87123.	1.1	4
49	A geometric characterisation of the quadratic min-power centre. European Journal of Operational Research, 2014, 233, 34-42.	3.5	4
50	Comment on â€œA Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cellsâ€• [J. Electrochem. Soc., 162, A1592 (2015)]. Journal of the Electrochemical Society, 2015, 162, Y11-Y12.	1.3	4
51	Gradient-constrained discounted Steiner trees II: optimally locating a discounted Steiner point. Journal of Global Optimization, 2016, 64, 515-532.	1.1	4
52	Optimally locating a junction point for an underground mine to maximise the net present value. ANZIAM Journal, 0, 54, 315.	0.0	4
53	The steiner minimal network for convex configurations. Discrete and Computational Geometry, 1993, 9, 323-333.	0.4	3
54	A polynomial time algorithm for rectilinear Steiner trees with terminals constrained to curves. Networks, 1999, 33, 145-155.	1.6	3

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55	Computing Steiner points for gradient-constrained minimum networks. Discrete Optimization, 2010, 7, 21-31.	0.6	3
56	Gradient-Constrained Minimum Networks. III. Fixed Topology. Journal of Optimization Theory and Applications, 2012, 155, 336-354.	0.8	3
57	Probability Steiner trees and maximum parsimony in phylogenetic analysis. Journal of Mathematical Biology, 2012, 64, 1225-1251.	0.8	3
58	Optimal curvature-constrained paths for general directional-cost functions. Optimization and Engineering, 2013, 14, 395-416.	1.3	3
59	Goal-directed control with cortical units that are gated by both top-down feedback and oscillatory coherence. Frontiers in Neural Circuits, 2014, 8, 94.	1.4	3
60	Siting and sizing distributed storage for microgrid applications. , 2017, , .		3
61	Strategic Underground Mine Access Design to Maximise the Net Present Value. , 2018, , 607-624.		3
62	Minimal curvature-constrained networks. Journal of Global Optimization, 2018, 72, 71-87.	1.1	3
63	Solving the prizeâ€collecting Euclidean Steiner tree problem. International Transactions in Operational Research, 2022, 29, 1479-1501.	1.8	3
64	On the effect of component mismatches in inverter interfaced microgrids. , 2014, , .		2
65	A flowâ€dependent quadratic steiner tree problem in the Euclidean plane. Networks, 2014, 64, 18-28.	1.6	2
66	Analysis of Constraints for Optimal Electric Vehicle Charging. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7879-7885.	0.4	2
67	Optimal curvature and gradient-constrained directional cost paths in 3-space. Journal of Global Optimization, 2015, 62, 507-527.	1.1	2
68	Gradient-constrained discounted Steiner trees I: optimal tree configurations. Journal of Global Optimization, 2016, 64, 497-513.	1.1	2
69	Approximate Euclidean Steiner Trees. Journal of Optimization Theory and Applications, 2017, 172, 845-873.	0.8	2
70	Computing minimum 2â€edgeâ€connected Steiner networks in the Euclidean plane. Networks, 2019, 73, 89-103.	1.6	2
71	Computing Skeletons for Rectilinearly Convex Obstacles in the Rectilinear Plane. Journal of Optimization Theory and Applications, 2020, 186, 102-133.	0.8	2
72	A mathematical model for mineable pushback designs. International Journal of Mining, Reclamation and Environment, 2021, 35, 523-539.	1.2	2

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73	A model for open-pit pushback design with operational constraints. Optimization and Engineering, 0, , 1.	1.3	2
74	ON GENERAL MATRIX MEASURES. Quarterly Journal of Mathematics, 1976, 27, 95-104.	0.3	1
75	IDENTIFYING STEINER MINIMAL TREES ON FOUR POINTS IN SPACE. Discrete Mathematics, Algorithms and Applications, 2009, 01, 401-411.	0.4	1
76	COMPUTING STEINER POINTS AND PROBABILITY STEINER POINTS IN â„“1 AND â„“2 METRIC SPACES. Discrete Mathematics, Algorithms and Applications, 2009, 01, 541-554.	0.4	1
77	The Gilbert arborescence problem. Networks, 2013, 61, 238-247.	1.6	1
78	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.	0.3	1
79	Euclidean Steiner trees optimal with respect to swapping 4-point subtrees. Optimization Letters, 2014, 8, 1337-1359.	0.9	1
80	Overcoming the Impact of Clock Drifts on Power Sharing for Microgrids. , 2018, , .		1
81	Time delayed discounted Steiner trees to locate two or more discounted Steiner points. ANZIAM Journal, 0, 57, 253.	0.0	1
82	Constructing minimum-cost flow-dependent networks. , 2002, 4909, 239.		0
83	Reconstruction of Probability Phylogenetic Trees with Substitution Models. , 2009, , .		0
84	Optimum steiner ratio for gradient-constrained networks connecting three points in 3-space, part II: The gradient-constraint m satisfies documentclass{article} usepackage{amsmath,amsfonts,amssymb}pagestyle{empty}egin{document}$ 1 leq m leq sqrt{3}. Networks, 2011, 57, 354-361.	1.6	0
85	STDP encodes oscillation frequencies in the connections of recurrent networks of spiking neurons. BMC Neuroscience, 2012, 13, .	0.8	0
86	Minimum Steiner trees on a set of concyclic points and their center. International Transactions in Operational Research, 0, , .	1.8	0
87	Simplifying obstacles for Steiner network problems in the plane. Networks, 0, , .	1.6	0
88	Shortest Networks for One Line and Two Points in Space. Combinatorial Optimization, 2000, , 15-26.	0.7	0
89	Spike-Timing Dependent Plasticity in Recurrently Connected Networks with Fixed External Inputs. Lecture Notes in Computer Science, 2008, , 102-111.	1.0	0
90	An exact algorithm for constructing minimum Euclidean skeletons of polygons. Journal of Global Optimization, 0, , 1.	1.1	0

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91	OPTIMAL LOCATION OF AN UNDERGROUND CONNECTOR USING DISCOUNTED STEINER TREE THEORY. ANZIAM Journal, 2020, 62, 334-351.	0.3	0