

Russell W Bent

List of Publications by Year in descending order

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papers

2,483
citations

257357

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73
all docs

73
docs citations

73
times ranked

2285
citing authors

#	ARTICLE	IF	CITATIONS
1	Operation of Natural Gas Pipeline Networks With Storage Under Transient Flow Conditions. IEEE Transactions on Control Systems Technology, 2022, 30, 667-679.	3.2	11
2	Mitigating the Impacts of Uncertain Geomagnetic Disturbances on Electric Grids: A Distributionally Robust Optimization Approach. IEEE Transactions on Power Systems, 2022, 37, 4258-4269.	4.6	3
3	N-k interdiction modeling for natural gas networks. Electric Power Systems Research, 2021, 190, 106725.	2.1	4
4	Piecewise polyhedral formulations for a multilinear term. Operations Research Letters, 2021, 49, 144-149.	0.5	7
5	Optimization-Based Formulations for Short-Circuit Studies with Inverter-Interfaced Generation in PowerModelsProtection.jl. Energies, 2021, 14, 2160.	1.6	6
6	Robust Gas Pipeline Network Expansion Planning to Support Power System Reliability. , 2021, , .		3
7	Credible Interdiction for Transmission Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 738-748.	2.4	1
8	Optimal economic operation of liquid petroleum products pipeline systems. AIChE Journal, 2021, 67, e17124.	1.8	7
9	Demand Response Analogues for Residential Loads in Natural Gas Networks. IEEE Access, 2021, 9, 161978-161990.	2.6	5
10	Proving global optimality of ACOPF solutions. Electric Power Systems Research, 2020, 189, 106688.	2.1	14
11	Algorithms for mitigating the effect of uncertain geomagnetic disturbances in electric grids. Electric Power Systems Research, 2020, 189, 106790.	2.1	2
12	Chance-Constrained Unit Commitment With N-1 Security and Wind Uncertainty. IEEE Transactions on Control of Network Systems, 2019, 6, 1062-1074.	2.4	46
13	Optimization of Structural Flood Mitigation Strategies. Water Resources Research, 2019, 55, 1490-1509.	1.7	10
14	Convex hull formulations for mixed-integer multilinear functions. AIP Conference Proceedings, 2019, , .	0.3	2
15	Resilient design of large-scale distribution feeders with networked microgrids. Electric Power Systems Research, 2019, 171, 150-157.	2.1	49
16	N-k Failure Analysis Algorithm for Identification of Extreme Events for Cascading Outage Pre-screening process. , 2019, , .		4
17	Dynamic Compressor Optimization in Natural Gas Pipeline Systems. INFORMS Journal on Computing, 2019, 31, 40-65.	1.0	23
18	An adaptive, multivariate partitioning algorithm for global optimization of nonconvex programs. Journal of Global Optimization, 2019, 74, 639-675.	1.1	40

#	ARTICLE	IF	CITATIONS
19	Relaxations of AC Maximal Load Delivery for Severe Contingency Analysis. IEEE Transactions on Power Systems, 2019, 34, 1450-1458.	4.6	18
20	Probabilistic $N-k$ failure identification for power systems. Networks, 2018, 71, 302-321.	1.6	22
21	Resilient Off-Grid Microgrids: Capacity Planning and N-1 Security. IEEE Transactions on Smart Grid, 2018, 9, 6511-6521.	6.2	39
22	Optimal Transmission Line Switching Under Geomagnetic Disturbances. IEEE Transactions on Power Systems, 2018, 33, 2539-2550.	4.6	31
23	Polyhedral approximation in mixed-integer convex optimization. Mathematical Programming, 2018, 172, 139-168.	1.6	34
24	Security-Constrained Design of Isolated Multi-Energy Microgrids. IEEE Transactions on Power Systems, 2018, 33, 2452-2462.	4.6	80
25	Tight Piecewise Convex Relaxations for Global Optimization of Optimal Power Flow. , 2018, , .		22
26	PowerModels.JL: An Open-Source Framework for Exploring Power Flow Formulations. , 2018, , .		92
27	Joint Electricity and Natural Gas Transmission Planning With Endogenous Market Feedbacks. IEEE Transactions on Power Systems, 2018, 33, 6397-6409.	4.6	42
28	Efficient dynamic compressor optimization in natural gas transmission systems. , 2016, , .		17
29	A likelihood ratio anomaly detector for identifying within-perimeter computer network attacks. Journal of Network and Computer Applications, 2016, 66, 166-179.	5.8	9
30	Unit commitment with N-1 Security and wind uncertainty. , 2016, , .		15
31	Convex Relaxations for Gas Expansion Planning. INFORMS Journal on Computing, 2016, 28, 645-656.	1.0	104
32	Optimal Resilient transmission Grid Design. , 2016, , .		33
33	Convex Optimization for Joint Expansion Planning of Natural Gas and Power Systems. , 2016, , .		37
34	Line Outage Localization Using Phasor Measurement Data in Transient State. IEEE Transactions on Power Systems, 2016, 31, 3019-3027.	4.6	28
35	Extended Formulations in Mixed-Integer Convex Programming. Lecture Notes in Computer Science, 2016, , 102-113.	1.0	26
36	Tightening McCormick Relaxations for Nonlinear Programs via Dynamic Multivariate Partitioning. Lecture Notes in Computer Science, 2016, , 369-387.	1.0	40

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37	Piecewise mixed integer programming for optimal sizing of surge control devices in water distribution systems. <i>Water Resources Research</i> , 2015, 51, 4391-4408.	1.7	6
38	Optimal Compression in Natural Gas Networks: A Geometric Programming Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2015, 2, 47-56.	2.4	59
39	Pressure Fluctuations in Natural Gas Networks Caused by Gas-Electric Coupling. , 2015, , .		20
40	Identification of topology changes in power grids using phasor measurements. <i>Applied Stochastic Models in Business and Industry</i> , 2014, 30, 740-752.	0.9	13
41	Transmission Network Expansion Planning: Bridging the gap between AC heuristics and DC approximations. , 2014, , .		21
42	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	1.3	92
43	Managing operations of plug-in hybrid electric vehicle (PHEV) exchange stations for use with a smart grid. <i>Energy Policy</i> , 2014, 67, 364-377.	4.2	72
44	Phasor measurement unit selection for unobservable electric power data integrity attack detection. <i>International Journal of Critical Infrastructure Protection</i> , 2014, 7, 155-164.	2.9	25
45	Accuracy of Service Area Estimation Methods Used for Critical Infrastructure Recovery. <i>Lecture Notes in Computer Science</i> , 2014, , 173-191.	1.0	3
46	Synchronization-aware and algorithm-efficient chance constrained optimal power flow. , 2013, , .		8
47	Cyber-Physical Security: A Game Theory Model of Humans Interacting Over Control Systems. <i>IEEE Transactions on Smart Grid</i> , 2013, 4, 2320-2327.	6.2	60
48	Using Network Metrics to Achieve Computationally Efficient Optimal Transmission Switching. , 2013, , .		7
49	Addressing smart grid cyber security. , 2013, , .		2
50	Model Bank State Estimation for Power Grids Using Importance Sampling. <i>Technometrics</i> , 2013, 55, 426-435.	1.3	7
51	Comparative Analysis of Local Search Strategies for Transmission Network Expansion Planning. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013, , 327-344.	0.1	0
52	Approximating line losses and apparent power in AC power flow linearizations. , 2012, , .		45
53	Transmission Network Expansion Planning With Complex Power Flow Models. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 904-912.	4.6	41
54	Computationally efficient optimal Transmission Switching: Solution space reduction. , 2012, , .		25

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55	Accurate load and generation scheduling for linearized DC models with contingencies. , 2012, , .		12
56	Randomized discrepancy bounded local search for transmission expansion planning. , 2011, , .		2
57	Strategic stockpiling of power system supplies for disaster recovery. , 2011, , .		28
58	Strategic Planning for Power System Restoration. , 2011, , .		7
59	Spatial and Objective Decompositions for Very Large SCAPs. Lecture Notes in Computer Science, 2011, , 59-75.	1.0	2
60	Online stochastic optimization under time constraints. Annals of Operations Research, 2010, 177, 151-183.	2.6	33
61	Strategic Planning for Disaster Recovery with Stochastic Last Mile Distribution. Lecture Notes in Computer Science, 2010, , 318-333.	1.0	37
62	Electric power transmission network design for wind generation in the Western United States: Algorithms, methodology, and analysis. , 2010, , .		11
63	Locating PHEV Exchange Stations in V2G. , 2010, , .		49
64	Spatial, Temporal, and Hybrid Decompositions for Large-Scale Vehicle Routing with Time Windows. Lecture Notes in Computer Science, 2010, , 99-113.	1.0	7
65	Online stochastic reservation systems. Annals of Operations Research, 2009, 171, 101-126.	2.6	9
66	A two-stage hybrid algorithm for pickup and delivery vehicle routing problems with time windows. Computers and Operations Research, 2006, 33, 875-893.	2.4	205
67	A simple and deterministic competitive algorithm for online facility location. Information and Computation, 2004, 194, 175-202.	0.5	33
68	Scenario-Based Planning for Partially Dynamic Vehicle Routing with Stochastic Customers. Operations Research, 2004, 52, 977-987.	1.2	359
69	A Two-Stage Hybrid Local Search for the Vehicle Routing Problem with Time Windows. Transportation Science, 2004, 38, 515-530.	2.6	250