Carlos Castro

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68
papers
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g-index
3.9
ext. citations
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L-index

#	Paper	IF	Citations
68	A critical evaluation of step size optimization based load flow methods. <i>IEEE Transactions on Power Systems</i> , 2000 , 15, 202-207	7	77
67	Distribution systems operation optimisation through reconfiguration and capacitor allocation by a dedicated genetic algorithm. <i>IET Generation, Transmission and Distribution</i> , 2010 , 4, 1213	2.5	64
66	Microgrids Energy Management Using Robust Convex Programming. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 4520-4530	10.7	56
65	Genetic algorithm-based phasor measurement unit placement method considering observability and security criteria. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 270-280	2.5	50
64	Continuation fast decoupled power flow with secant predictor. <i>IEEE Transactions on Power Systems</i> , 2003 , 18, 1078-1085	7	40
63	Fast computation of voltage stability security margins using nonlinear programming techniques. <i>IEEE Transactions on Power Systems</i> , 2006 , 21, 19-27	7	38
62	Expansion planning for smart transmission grids using AC model and shunt compensation. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 966-975	2.5	35
61	Optimal probabilistic charging of electric vehicles in distribution systems. <i>IET Electrical Systems in Transportation</i> , 2017 , 7, 246-251	2.1	31
60	Distribution Systems Operation Considering Energy Storage Devices and Distributed Generation. <i>IEEE Latin America Transactions</i> , 2017 , 15, 890-900	0.7	27
59	An efficient reconfiguration algorithm for loss reduction of distribution systems. <i>Electric Power Systems Research</i> , 1990 , 19, 137-144	3.5	25
58	Power System Loading Margin Estimation Using a Neuro-Fuzzy Approach. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 1955-1964	7	17
57	An efficient geometric parameterization technique for the continuation power flow. <i>Electric Power Systems Research</i> , 2007 , 77, 71-82	3.5	17
56	Comparison of the dynamic response of wind turbine primary frequency controllers 2017,		16
55	Optimal location, sizing and operation of energy storage in distribution systems using multi-objective approach. <i>IEEE Latin America Transactions</i> , 2017 , 15, 1084-1090	0.7	14
54	Multi-criteria contingency ranking method for voltage stability. <i>Electric Power Systems Research</i> , 2009 , 79, 220-225	3.5	14
53	Comparison of particle swarm based meta-heuristics for the electric transmission network expansion planning problem 2011 ,		13
52	. IEEE Transactions on Power Systems, 1993 , 8, 807-814	7	12

51	. IEEE Transactions on Power Systems, 1994 , 9, 1651-1657	7	12
50	Specialized differential evolution technique to solve the alternating current model based transmission expansion planning problem. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 68, 243-251	5.1	11
49	Parameterized fast decoupled power flow methods for obtaining the maximum loading point of power systems: Part I. Mathematical modeling. <i>Electric Power Systems Research</i> , 2004 , 69, 93-104	3.5	10
48	Real power losses reduction and loading margin improvement via continuation method. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 1690-1692	7	10
47	Probabilistic OPF Model for Unbalanced Three-Phase Electrical Distribution Systems Considering Robust Constraints. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3443-3454	7	8
46	An efficient method for distribution systems reconfiguration and capacitor placement using a Chu-Beasley based genetic algorithm 2011 ,		8
45	Alternative parameters for the continuation power flow method. <i>Electric Power Systems Research</i> , 2003 , 66, 105-113	3.5	8
44	Optimal Conductor Size Selection in Radial Distribution Networks Using a Mixed-Integer Non-Linear Programming Formulation. <i>IEEE Latin America Transactions</i> , 2018 , 16, 2213-2220	0.7	8
43	New representation of PV buses in the current injection Newton power flow. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 90, 237-244	5.1	7
42	A critical evaluation of a maximum loading point estimation method for voltage stability analysis. <i>Electric Power Systems Research</i> , 2004 , 70, 195-202	3.5	5
41	Improved method for the calculation of power systems low voltage solutions. <i>International Journal of Electrical Power and Energy Systems</i> , 2002 , 24, 503-513	5.1	5
40	Comparison of different screening techniques for the contingency selection function. <i>International Journal of Electrical Power and Energy Systems</i> , 1996 , 18, 425-430	5.1	5
39	An efficient hybrid metaheuristics optimization technique applied to the AC electric transmission network expansion planning. <i>Swarm and Evolutionary Computation</i> , 2021 , 61, 100830	9.8	5
38	Study of particle swarm optimization variations applied to transmission expansion planning 2013,		4
37	Practical method for computing the maximum loading point using a load flow with step size optimisation. <i>IET Generation, Transmission and Distribution</i> , 2011 , 5, 1250	2.5	4
36	Maximum loading point computation based on load flow with step size optimization 2008,		4
35	Allocation of PMU channels at substations for topology processing and state estimation. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 2034-2045	2.5	3
34	Security constrained transmission expansion planning for smart transmission grids based on the AC network model 2014 ,		3

33	Maximization of voltage stability margin by optimal reactive compensation 2008,	3
32	Reconfiguration of distribution systems by a modified genetic algorithm 2007,	3
31	Power flow model based on artificial neural networks 2005,	3
30	Security constrained optimal active power flow via network model and interior point method. <i>Controle and Automacao</i> , 2009 , 20, 206-216	3
29	Optimal allocation of energy storage devices in distribution systems considering lifetime characteristics of batteries 2016 ,	3
28	Optimal Energy Management of Unbalanced Three-Phase Grid-Connected Microgrids 2019,	2
27	Optimal substation PMU placement method for the two-level state estimator 2013,	2
26	Energy management of isolated microgrids using mixed-integer second-order cone programming 2017 ,	2
25	Integrated AC/DC transmission expansion planning model considering VSC-MTDC systems 2017,	2
24	Efficient probabilistic power flow for weakly-meshed distribution networks 2014,	2
23	Ill-conditioned Optimal Power Flow solutions and performance of non-linear programming solvers 2009 ,	2
22	Transient Stability using Energy Function Method in Power Systems Close to Voltage Collapse 2007 ,	2
21	Voltage stability security margin assessment via artificial neural networks 2005,	2
20	Parameterized fast decoupled power flow methods for obtaining the maximum loading point of power systems. <i>Electric Power Systems Research</i> , 2004 , 69, 85-92	2
19	Transmission Expansion Planning by using DC and AC Models and Particle Swarm Optimization260-284	2
18	AC Transmission Expansion Planning Considering Uncertainty 2019,	2
17	A robust power flow approach using synthetic dynamics and optimal multiplier 2013,	1
16	Biogeography based optimization algorithms applied to AC transmission expansion planning 2017,	1

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15	Mixed integer linear programming formulation for optimal reactive compensation and voltage control of distribution power systems 2017 ,		1
14	Voltage stability margin determination using the channel components transform 2015,		1
13	Transmission asset maintenance programming optimization - the Brazilian Electric System case. <i>IEEE Latin America Transactions</i> , 2015 , 13, 1414-1420	0.7	1
12	Practical heuristic approach to solve the Optimal Transmission Switching problem for Smart Grids 2014 ,		1
11	Robust computation of voltage stability margins for transmission and distribution grids 2013,		1
10	Practical method for computing the maximum loading point based on load flow with step size optimization 2010 ,		1
9	2009,		1
8	New method based on load flow with step size optimization for calculating the maximum loading point 2009 ,		1
7	Comparison of compensation methods applied to the analysis of topological changes in electrical networks. <i>International Journal of Electrical Power and Energy Systems</i> , 1997 , 19, 511-518	5.1	1
6	A new efficient nonlinear programming based method for branch overload elimination. <i>Controle and Automacao</i> , 2003 , 14, 76-82		1
5	Transmission Expansion Planning Considering the Impact of Distributed Generation 2019,		1
4	A lecture on autotransformers for power engineering students. <i>IEEE Transactions on Education</i> , 2003 , 46, 373-378	2.1	O
3	Optimal Maintenance Scheduling of Transmission Assets in the Brazilian Electric System. <i>Journal of Control, Automation and Electrical Systems</i> , 2021 , 32, 482-491	1.5	О
2	A New Efficient Nonlinear Programming-Based Method for Branch Overload Elimination. <i>Electric Power Components and Systems</i> , 2002 , 30, 525-537	1	
1	Current Status and Perspectives of the Electric Sector in Brazil. <i>IEEE Latin America Transactions</i> , 2021 , 19, 660-668	0.7	