Armando Leite da Silva

List of Publications by Year
in descending order

63 papers	1,416 citations	304743 22 h-index	345221 36 g-index
63 all docs	63 docs citations	63 times ranked	967 citing authors

#	Article	IF	Citations
1	Generating Capacity Reliability Evaluation Based on Monte Carlo Simulation and Cross-Entropy Methods. IEEE Transactions on Power Systems, 2010, 25, 129-137.	6.5	111
2	Composite Systems Reliability Evaluation Based on Monte Carlo Simulation and Cross-Entropy Methods. IEEE Transactions on Power Systems, 2013, 28, 4598-4606.	6.5	101
3	Reliability Assessment of Time-Dependent Systems via Sequential Cross-Entropy Monte Carlo Simulation. IEEE Transactions on Power Systems, 2011, 26, 2381-2389.	6.5	86
4	Composite Reliability Assessment Based on Monte Carlo Simulation and Artificial Neural Networks. IEEE Transactions on Power Systems, 2007, 22, 1202-1209.	6.5	85
5	Improving Power System Reliability Calculation Efficiency With EPSO Variants. IEEE Transactions on Power Systems, 2009, 24, 1772-1779.	6.5	70
6	Reliability worth applied to transmission expansion planning based on ant colony system. International Journal of Electrical Power and Energy Systems, 2010, 32, 1077-1084.	5.5	68
7	Risk Assessment in Probabilistic Load Flow via Monte Carlo Simulation and Cross-Entropy Method. IEEE Transactions on Power Systems, 2019, 34, 1193-1202.	6.5	64
8	Probabilistic evaluation of reserve requirements of generating systems with renewable power sources: The Portuguese and Spanish cases. International Journal of Electrical Power and Energy Systems, 2009, 31, 562-569.	5.5	62
9	Accelerated State Evaluation and Latin Hypercube Sequential Sampling for Composite System Reliability Assessment. IEEE Transactions on Power Systems, 2014, 29, 1692-1700.	6.5	54
10	Distributed Energy Resources Impact on Distribution System Reliability Under Load Transfer Restrictions. IEEE Transactions on Smart Grid, 2012, 3, 2048-2055.	9.0	50
11	A Method for Ranking Critical Nodes in Power Networks Including Load Uncertainties. IEEE Transactions on Power Systems, 2016, 31, 1341-1349.	6.5	43
12	Probabilistic Assessment of Spinning Reserve via Cross-Entropy Method Considering Renewable Sources and Transmission Restrictions. IEEE Transactions on Power Systems, 2018, 33, 4574-4582.	6.5	43
13	Transmission expansion planning optimization by adaptive multi-operator evolutionary algorithms. Electric Power Systems Research, 2016, 133, 173-181.	3.6	39
14	Chronological Power Flow for Planning Transmission Systems Considering Intermittent Sources. IEEE Transactions on Power Systems, 2012, 27, 2314-2322.	6.5	36
15	Simplified Cross-Entropy Based Approach for Generating Capacity Reliability Assessment. IEEE Transactions on Power Systems, 2013, 28, 1609-1616.	6.5	29
16	Reliability assessment of time-dependent systems via quasi-sequential Monte Carlo simulation. , 2010, , .		27
17	A Gradient-Based Artificial Immune System Applied to Optimal Power Flow Problems. Lecture Notes in Computer Science, 2007, , 1-12.	1.3	27
18	Probabilistic Analysis for Maximizing the Grid Integration of Wind Power Generation. IEEE Transactions on Power Systems, 2012, 27, 2323-2331.	6.5	26

#	ARTICLE	IF	CITATIONS
19	Multi-agent systems applied to reliability assessment of power systems. International Journal of Electrical Power and Energy Systems, 2012, 42, 367-374.	5.5	25
20	Spinning Reserve Assessment Under Transmission Constraints Based on Cross-Entropy Method. IEEE Transactions on Power Systems, 2016, 31, 1624-1632.	6.5	25
21	A Cluster and Gradient-Based Artificial Immune System Applied in Optimization Scenarios. IEEE Transactions on Evolutionary Computation, 2012, 16, 301-318.	10.0	24
22	A New Methodology for Cost Allocation of Transmission Systems in Interconnected Energy Markets. IEEE Transactions on Power Systems, 2013, 28, 740-748.	6.5	24
23	Application of Monte Carlo simulation to generating system well-being analysis considering renewable sources. European Transactions on Electrical Power, 2007, 17, 387-400.	1.0	23
24	Security-Constrained Optimal Power Flow via Cross-Entropy Method. IEEE Transactions on Power Systems, 2018, 33, 6621-6629.	6.5	21
25	Chronological Monte Carlo-Based Assessment of Distribution System Reliability. , 2006, , .		20
26	Probabilistic Evaluation of Substation Criticality Based on Static and Dynamic System Performances. IEEE Transactions on Power Systems, 2014, 29, 1410-1418.	6.5	20
27	Transmission expansion planning: A discussion on reliability and &#x201C;N&#x2212;1&#x201D; security criteria. , 2010, , .		19
28	Artificial Immune System Applied to the Multi-stage Transmission Expansion Planning. Lecture Notes in Computer Science, 2009, , 178-191.	1.3	17
29	Probabilistic Method for Optimizing the Number and Timing of Substation Spare Transformers. IEEE Transactions on Power Systems, 2015, 30, 2004-2012.	6.5	15
30	Probabilistic evaluation of distribution power transformers reliability indices considering load transfers and mobile unit substations. Electric Power Systems Research, 2020, 187, 106501.	3.6	13
31	Composite reliability evaluation with renewable sources based on quasi-sequential Monte Carlo and cross entropy methods. , 2014, , .		12
32	Generation maintenance scheduling with renewable sources based on production and reliability costs. International Journal of Electrical Power and Energy Systems, 2022, 134, 107370.	5.5	12
33	Evolution Strategies to Transmission Expansion Planning Considering Unreliability Costs. , 2006, , .		11
34	An approach to the explicit consideration of unreliability costs in transmission expansion planning. European Transactions on Electrical Power, 2007, 17, 401-412.	1.0	10
35	Application of Monte Carlo Simulation to Well-Being Analysis of Large Composite Power Systems. , 2006, , .		9
36	Conceptual Investigation on Probabilistic Adequacy Protocols: Brazilian Experience. IEEE Transactions on Power Systems, 2014, 29, 1270-1278.	6.5	8

#	ARTICLE	IF	CITATIONS
37	Spinning reserve assessment via quasi-sequential Monte Carlo simulation with renewable sources. , 2016, , .		8
38	A methodology for computing robust dynamic equivalents of large power systems. Electric Power Systems Research, 2017, 143, 513-521.	3.6	7
39	Artificial Immune Systems and Differential Evolution Based Approaches Applied to Multi-Stage Transmission Expansion Planning. , 2009, , .		6
40	Composite Reliability Assessment of Power Systems with Large Penetration of Renewable Sources. , 2013, , 107-128.		6
41	Evaluation of spare transformer requirements for distribution substations via chronological Monte Carlo simulation. , 2017, , .		6
42	Long term evaluation of operating reserve with high penetration of renewable energy sources. , 2011, , .		5
43	Unsupervised machine learning techniques applied to composite reliability assessment of power systems. International Transactions on Electrical Energy Systems, 2021, 31, e13109.	1.9	5
44	Transmission expansion planning of large power networks via constructive metaheuristics with security constraints and load uncertainty analysis. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	5
45	Reliability evaluation of composite generation and transmission systems via binary logistic regression and parallel processing. International Journal of Electrical Power and Energy Systems, 2022, 142, 108380.	5.5	5
46	Transmission Expansion Planning: A Methodology to Include Security Criteria and Uncertainties Using Optimization Techniques. Springer Series in Reliability Engineering, 2011, , 191-220.	0.5	3
47	Support Vector Machine application in composite reliability assessment. , 2015, , .		3
48	Transmission expansion planning based on relaxed N-1 criteria and reliability indices. , 2016, , .		3
49	Transmission network cost allocation via nodal methodology considering different dispatching scenarios and tariff zones. , 2017, , .		3
50	Constructive metaheuristics applied to transmission expansion planning with security constraints. , 2017, , .		3
51	Risk Assessment for the Amount of Transmission System Usage Penalties via Probabilistic Load Flow. , 2020, , .		3
52	Reliability evaluation of generating systems considering aging processes. Electric Power Systems Research, 2022, 202, 107589.	3.6	3
53	Network Reconfiguration of Distribution Systems Using Metaheuristics and Reliability Measures. , 2009, , .		2
54	Distribution reliability: Data calibration based on Monte Carlo simulation and evolutionary optimization. , 2014, , .		2

#	Article	IF	Citations
55	Chronological Monte Carlo Simulation for Evaluating Spare Transformer Requirements in Distribution Substations. Journal of Control, Automation and Electrical Systems, 2021, 32, 1365-1376.	2.0	2
56	Impacto de programas de gerenciamento da demanda no custo da perda de carga. Controle and Automacao, 2003, 14, 422-429.	0.2	1
57	Spare transformers optimization using Monte Carlo simulation and metaheuristic techniques. , 2015, , .		1
58	Operating Reserve Assessment in Systems with Energy Storage and Electric Vehicles. , 2020, , .		1
59	Probabilistic Method for Transmission System Pricing Considering Intermittence of Wind Power Sources. , 2020, , .		1
60	Transmission planning with security criteria via enhanced genetic algorithm. Electrical Engineering, 2021, 103, 1977-1987.	2.0	1
61	Allocation of Feeder Usage, Losses and Peak Load in Distribution Systems with DG Using Shapley Value. , 2021, , .		1
62	Operational Reserve Assessment Considering Wind Power Fluctuations in Power Systems. Energy Systems, 2013, , 379-411.	0.5	1
63	Constructive heuristic algorithm for sub-transmission system planning. , 2014, , .		0