

Joao Tome Saraiva

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

766
citations

623734

14
h-index

888059

17
g-index

57
all docs

57
docs citations

57
times ranked

651
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation expansion planning (GEP) – A long-term approach using system dynamics and genetic algorithms (GAs). <i>Energy</i> , 2011, 36, 5180-5199.	8.8	92
2	A Simulated Annealing based approach to solve the generator maintenance scheduling problem. <i>Electric Power Systems Research</i> , 2011, 81, 1283-1291.	3.6	73
3	State-of-the-art of transmission expansion planning: A survey from restructuring to renewable and distributed electricity markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 111, 411-424.	5.5	67
4	A decision support system for generation expansion planning in competitive electricity markets. <i>Electric Power Systems Research</i> , 2010, 80, 778-787.	3.6	55
5	Generation/transmission power system reliability evaluation by Monte-Carlo simulation assuming a fuzzy load description. <i>IEEE Transactions on Power Systems</i> , 1996, 11, 690-695.	6.5	52
6	A discrete evolutionary PSO based approach to the multiyear transmission expansion planning problem considering demand uncertainties. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 45, 427-442.	5.5	50
7	A long term generation expansion planning model using system dynamics – Case study using data from the Portuguese/Spanish generation system. <i>Electric Power Systems Research</i> , 2013, 97, 41-50.	3.6	44
8	Allocation of reactive power support, active loss balancing and demand interruption ancillary services in MicroGrids. <i>Electric Power Systems Research</i> , 2010, 80, 1267-1276.	3.6	34
9	A two-stage strategy for security-constrained AC dynamic transmission expansion planning. <i>Electric Power Systems Research</i> , 2020, 180, 106167.	3.6	33
10	Long term impact of wind power generation in the Iberian day-ahead electricity market price. <i>Energy</i> , 2013, 55, 1159-1171.	8.8	31
11	A multiyear dynamic transmission expansion planning model using a discrete based EPSO approach. <i>Electric Power Systems Research</i> , 2012, 93, 83-92.	3.6	29
12	Active/reactive bid based dispatch models to be used in electricity markets. <i>Electric Power Systems Research</i> , 2008, 78, 106-121.	3.6	19
13	A market based active/reactive dispatch including transformer taps and reactor and capacitor banks using Simulated Annealing. <i>Electric Power Systems Research</i> , 2009, 79, 959-972.	3.6	17
14	Solving the revenue reconciliation problem of distribution network providers using long-term marginal prices. <i>IEEE Transactions on Power Systems</i> , 2003, 18, 339-345.	6.5	16
15	Estimation of the remuneration of hydro plants in a market environment using an iterative under-relaxation approach. , 2009, , .		15
16	A novel efficient method for multiyear multiobjective dynamic transmission system planning. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 100, 10-18.	5.5	15
17	Hybrid Discrete Evolutionary PSO for AC dynamic Transmission Expansion Planning. , 2016, , .		14
18	Static transmission expansion planning using Heuristic and metaheuristic techniques. , 2015, , .		10

#	ARTICLE	IF	CITATIONS
19	Transmission system planning considering solar distributed generation penetration. , 2017, , .		10
20	Generation Expansion Planning in Competitive Electricity Markets. , 2007, , .		7
21	Modeling costs and load uncertainties in optimal power flow studies. , 2008, , .		7
22	Demand and generation cost uncertainty modelling in power system optimization studies. Electric Power Systems Research, 2009, 79, 1000-1009.	3.6	6
23	Operation planning of hydro stations using genetic algorithms considering their impact on the electricity market prices. , 2014, , .		6
24	Simulation of the operation of hydro plants in an electricity market using agent-based models. , 2015, , .		6
25	Application of the Matlab® Linprog function to plan the short term operation of hydro stations considered as price makers. , 2016, , .		6
26	Evaluation of the performance of space reduction technique using AC and DC models in Transmission Expansion problems. , 2016, , .		6
27	Hybrid Genetic Algorithm for multi-objective Transmission Expansion Planning. , 2016, , .		5
28	A virtual reservoir electricity market design applied to the Brazilian system using an Agent Based Model. , 2015, , .		4
29	Calculation of Nodal Marginal Prices Considering Load and Generation Price Uncertainties. , 2007, , .		3
30	Ancillary services in the Iberian Electricity market — Current situation and harmonization approaches. , 2011, , .		3
31	Simulation of the operation of hydro plants in an electricity market using agent based models - introducing a Q Learning approach. , 2016, , .		3
32	Multiyear and multi-criteria AC Transmission Expansion Planning model considering reliability and investment costs. , 2016, , .		3
33	Agent Based Models in Power Systems. U Porto Journal of Engineering, 2021, 7, 101-113.	0.4	3
34	A Model to Remarry the Active/Reactive Power Dispatches in Competitive Environment and Active/Reactive Marginal Prices Computation. , 2006, , .		2
35	Computation of nodal marginal prices in the presence of load and generation cost Uncertainties. , 2009, , .		2
36	Ancillary services — The current situation in the iberian electricity market and future possible developments. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	Estimation of the congestion cost of the Portuguese National Transmission Network — Evolution from 1998 to 2008. , 2012, , .		2
38	Transmission expansion planning — A multiyear PSO based approach considering load uncertainties. , 2013, , .		2
39	An Evolutionary Particle Swarm Optimization, EPSO, approach to optimize the operation of hydro stations in market environment. , 2014, , .		2
40	Evaluation of the impact of storage systems on grid electricity demand in the German context. , 2015, , .		2
41	Simulation of the Iberian electricity market using an agent based model and considering hydro stations. , 2017, , .		2
42	Evolution of the marginal based remuneration of the Portuguese transmission company from 1998 to 2004. , 2009, , .		1
43	Forecast of the bidding curve of generation players in the Iberian electricity market. , 2015, , .		1
44	Economic evaluation of generation and storage solutions in low voltage end user installations. , 2015, , .		1
45	Economics of energy storage in a residential consumer context. , 2016, , .		1
46	Behavior of the Iberian Electricity Market Prices in 2016 Considering Increasing Values of Feed-in Generation. , 2018, , .		1
47	Designing modern heuristic algorithms to solve the Transmission Expansion Planning problem. , 2021, , .		1
48	Economic evaluation of wind generation projects in electricity markets. , 2010, , .		0
49	A Fuzzy — Probabilistic hybrid approach to evaluate the impact of component outages, demand and generation cost uncertainties in the operation of power systems. , 2011, , .		0
50	Economic evaluation of thermal power station investments considering the impact of renewable energy sources. , 2012, , .		0
51	Impact of feed-in generation in market prices and calibration of a capacity term to pay to traditional generation — Application to the Iberian market. , 2014, , .		0
52	A new electricity market design for power systems with large share of hydro: Improving flexibility and ensuring efficiency and security in the Brazilian case. , 2015, , .		0
53	Economic evaluation of combined generation and storage solutions in low voltage Portuguese consumers. , 2016, , .		0
54	Evaluation of the impact of the feed-in generation in the prices of the Iberian Electricity Market in 2013. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	A design and simulation of a Brazilian bid based short-term electricity market. , 2016, , .		0
56	Optimal storage dispatch in a consumer setting with local generation resources. , 2017, , .		0
57	Comparative Analysis of Constructive Heuristic Algorithms for Transmission Expansion Planning. U Porto Journal of Engineering, 2016, 2, 55-64.	0.4	0