Luciane Neves Canha

List of Publications by Year
in descending order

142 papers	1,423 citations	567144 15 h-index	395590 33 g-index
143 all docs	143 docs citations	143 times ranked	1385 citing authors

#	Article	IF	Citations
1	An Electrochemical-Based Fuel-Cell Model Suitable for Electrical Engineering Automation Approach. IEEE Transactions on Industrial Electronics, 2004, 51, 1103-1112.	5.2	461
2	AHP Decision-Making Algorithm to Allocate Remotely Controlled Switches in Distribution Networks. IEEE Transactions on Power Delivery, 2011, 26, 1884-1892.	2.9	88
3	Real-time reconfiguration of distribution network with distributed generation. Electric Power Systems Research, 2014, 107, 59-67.	2.1	83
4	Multicriteria Distribution Network Reconfiguration Considering Subtransmission Analysis. IEEE Transactions on Power Delivery, 2010, 25, 2684-2691.	2.9	58
5	Intelligent system for automatic reconfiguration of distribution network in real time. Electric Power Systems Research, 2013, 97, 84-92.	2.1	55
6	Multi-objective analysis of impacts of distributed generation placement on the operational characteristics of networks for distribution system planning. International Journal of Electrical Power and Energy Systems, 2010, 32, 1157-1164.	3.3	47
7	Substations SF6 circuit breakers: Reliability evaluation based on equipment condition. Electric Power Systems Research, 2017, 142, 36-46.	2.1	41
8	Projection of the diffusion of photovoltaic systems in residential low voltage consumers. Renewable Energy, 2018, 116, 384-401.	4.3	33
9	Electric distribution network reconfiguration based on a fuzzy multi-criteria decision making algorithm. Electric Power Systems Research, 2009, 79, 1400-1407.	2.1	32
10	Methodology for ESS–type selection and optimal energy management in distribution system with DG considering reverse flow limitations and cost penalties. IET Generation, Transmission and Distribution, 2018, 12, 1164-1170.	1.4	31
11	Methodology for allocation of remotely controlled switches in distribution networks based on a fuzzy multi-criteria decision making algorithm. Electric Power Systems Research, 2011, 81, 414-420.	2.1	28
12	Methodology for placement of Dispersed Generation Systems by analyzing its Impacts in Distribution Networks. IEEE Latin America Transactions, 2012, 10, 1544-1549.	1.2	23
13	Fuzzy set based multiobjective allocation of resources and its applications. Computers and Mathematics With Applications, 2006, 52, 197-210.	1.4	20
14	Models and methods of decision making in fuzzy environment and their applications to power engineering problems. Numerical Linear Algebra With Applications, 2007, 14, 369-390.	0.9	20
15	Selection of storage energy technologies in a power quality scenario — the AHP and the fuzzy logic. , 2009, , .		20
16	Software for Automatic Coordination of Protection Devices in Distribution System. IEEE Transactions on Power Delivery, 2008, 23, 2241-2246.	2.9	16
17	Performance assessment of a low power wide area network in rural smart grids. , 2017, , .		16
18	Performance Evaluation of the Adaptive Loss of Field Protection in Synchronous Generators by means of the Positive Offset Method. IEEE Latin America Transactions, 2009, 7, 643-649.	1.2	14

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19	Communication System Design for an Advanced Metering Infrastructure. Sensors, 2018, 18, 3734.	2.1	13
20	Operational vulnerability indicator for prioritization and replacement of power transformers in substation. International Journal of Electrical Power and Energy Systems, 2018, 102, 60-70.	3.3	13
21	Grid functional blocks methodology to dynamic operation and decision making in Smart Grids. International Journal of Electrical Power and Energy Systems, 2018, 103, 267-276.	3.3	12
22	Decentralized multi-area multi-agent economic dispatch model using select meta-heuristic optimization algorithms. Electric Power Systems Research, 2021, 195, 107128.	2.1	12
23	Studies of parallelism in distribution networks served by different-source substations. Electric Power Systems Research, 2008, 78, 450-457.	2.1	11
24	Automatic coordination of protection devices in distribution system. Electric Power Systems Research, 2008, 78, 1210-1216.	2.1	10
25	Allocation and integrated configuration of capacitor banks and voltage regulators considering multi-objective variables in smart grid distribution system. , 2010, , .		10
26	Optimization of voltage regulators settings and transformer tap zones in distribution systems with great load variation using distribution automation and the smart grids initiatives. , 2011, , .		10
27	Dynamic and proactive matheuristic for AC/DC hybrid smart home energy operation considering load, energy resources and price uncertainties. International Journal of Electrical Power and Energy Systems, 2022, 137, 107463.	3.3	10
28	Event Classification in Non-Intrusive Load Monitoring Using Convolutional Neural Network. , 2019, , .		9
29	Proactive home energy storage management system to severe weather scenarios. Applied Energy, 2020, 279, 115797.	5.1	9
30	Assessment of the smart grids applied in reducing the cost of distribution system losses. , 2010, , .		8
31	Cyber security and communications network on SCADA systems in the context of Smart Grids. , 2015, , .		8
32	Heuristic Scheduling Algorithm for Load Shift DSM Strategy in Smart Grids and IoT Scenarios. , 2019, , .		8
33	Combined Framework with Heuristic Programming and Rule-Based Strategies for Scheduling and Real Time Operation in Electric Vehicle Charging Stations. Energies, 2021, 14, 1370.	1.6	8
34	Semi-decentralized and fully decentralized multiarea economic dispatch considering participation of local private aggregators using meta-heuristic method. International Journal of Electrical Power and Energy Systems, 2021, 128, 106656.	3.3	8
35	Intelligent voltage regulator to distributed voltage control in smart grids. , 2017, , .		7
36	Battery Energy Storage Systems (BESS) Overview of Key Market Technologies. , 2018, , .		7

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37	Multi-objective Optimal Planning of Distributed Energy Resources Using SPEA2 Algorithms Considering Multi-agent Participation. , 2019, , .		7
38	A methodology for real time analysis of parallelism of distribution networks. Electric Power Systems Research, 2013, 105, 1-8.	2.1	6
39	Transient stability study of an unbalanced distribution system with distributed generation. , 2014, , .		6
40	Automatic reconfiguration of distribution networks using Smart Grid concepts. , 2012, , .		5
41	Deployment of LoRA WAN Network for Rural Smart Grid in Brazil. , 2018, , .		5
42	New Methods for Distribution Network Reconfiguration from Multicriteria Decision-Making. , 2007, , .		4
43	Seleção de fontes alternativas de geração distribuída utilizando uma análise multicriterial baseada no método AHP e na lógica fuzzy. Controle and Automacao, 2010, 21, 477-486.	0.2	4
44	Real-time evaluation of voltage control in distribution systems using remote measurements and smart meters. , 2012, , .		4
45	Reconfiguration of distribution network considering distributed generation and multivariables criteria. , 2013, , .		4
46	Smart grid concepts applied to self-healing in distribution system. , 2014, , .		4
47	Methods of availability assurance for communication of PMU in a smart grid based on IP protocol. , 2014, , .		4
48	Wind generation forecasting of short and very short duration using Neuro-Fuzzy Networks: A case study. , 2017, , .		4
49	Communication System Design for an Advanced Metering Infrastructure. , 2018, , .		4
50	Analysis of Multi-Objective Methods Applied to Distributed Generation Systems. , 2007, , .		3
51	Storage energy management with power quality concerns the analytic hierarchy process and the fuzzy logic. , 2009, , .		3
52	Fuzzy Multi-Sets and Multi-Rules: Analysis of Hybrid Systems Concerning Renewable Sources with Conventional and Flow Batteries. , 2009, , .		3
53	Smart Grid and the low voltage consumer behavior facing the dynamic energy rates in the Brazil. , 2012, , .		3
54	Studies on parallelism of feeders for automatic reconfiguration of distribution networks. , 2012, , .		3

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55	A multicriteria approach for meter placement in monitoring of smart distribution systems. , 2013, , .		3
56	Real-time load forecasting for demand side management with only a few days of history available. , 2013, , .		3
57	A fast power flow for real-time monitoring in smart grid environments. , 2013, , .		3
58	A novel fuzzy-based expert system for RET selection. Journal of Intelligent and Fuzzy Systems, 2013, 25, 325-333.	0.8	3
59	Intelligent system for automatic reconfiguration of distribution network with distributed generation. , 2015, , .		3
60	Energy Storage Systems Role in Supporting Renewable Resources: Global Overview. , 2019, , .		3
61	Flexible Energy Management Strategy For Electric Vehicles Charging Stations. , 2020, , .		3
62	Comprehensive Model for Real Battery Simulation Responsive to Variable Load. Energies, 2021, 14, 3209.	1.6	3
63	A Novel Fuzzy-Based Methodology for Biogas Fuelled Hybrid Energy Systems Decision Making. Studies in Fuzziness and Soft Computing, 2011, , 183-198.	0.6	3
64	Simulation of Transient State Impacts from Low Power DG Aiming at Improving Power Quality and Reliability of Distribution Networks. , 2007, , .		2
65	Analysis of the impacts of distributed generation sources considering the appropriate choice of parameters in a multi-objective approach for distribution system planning. , 2008, , .		2
66	A proposal for redefinition of reliability indexes for power utilities by Fuzzy Logic. , 2011, , .		2
67	A multicriteria approach for meter placement in distribution systems. , 2013, , .		2
68	Methodology for long-term forecasting to insertion of DG in distribution systems. , 2015, , .		2
69	Security of communications on a high availability mesh network applied in Smart Grids. , 2015, , .		2
70	Allocation of remotely controlled switches for reliability assessment in distribution networks. , 2015, , .		2
71	Operational impact of the complementarity between photovoltaic solar and biogas generation sources on distribution network systems. , 2016, , .		2
72	SF6 gas circuit breakers reliability estimation, considering likely wear points. , 2016, , .		2

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73	Smart voltage regulator to active voltage level management of distribution networks. CIRED - Open Access Proceedings Journal, 2017, 2017, 855-859.	0.1	2
74	Impact of the State Estimation in Different Scenarios and Topologies in a Power Distribution System. , 2018, , .		2
75	Technology Roadmap Storage: Energy Storage Perspectives. , 2018, , .		2
76	A smart local voltage regulator methodology for dynamic integration between volt-var control and distributed energy resources. , 2018, , .		2
77	Development of a Demand Response System Integrated to Photovoltaic Microgeneration and Energy Storage Using IoT and Artificial Intelligence. , 2018, , .		2
78	The Roles of Customers, Utilities and Companies in Accelerating Smart Grid Implementation. , 2019, , .		2
79	Battery Analysis using Kinetic Battery Model with Voltage Response. , 2020, , .		2
80	Mixedâ€integer stochastic evaluation of battery energy storage system integration strategies in distribution systems. IET Generation, Transmission and Distribution, 0, , .	1.4	2
81	A Parallel Approach for Real-Time Power Flow in Distribution Networks. Renewable Energy and Power Quality Journal, 0, , 616-620.	0.2	2
82	Very short-term load forecast, for demand side management, in absence of historical data. Renewable Energy and Power Quality Journal, 0, , 787-790.	0.2	2
83	A Review on Energy Storage Systems and Military Applications. , 2020, , .		2
84	Automated Coordination and Optimization Tool of Protection Devices for Distribution Systems. , 2007, , .		1
85	Automatic priority of the maintenance activities in distribution systems using multicriterial analysis and fuzzy techniques. , 2007, , .		1
86	Distribution Network Reconfiguration Starting from Fuzzy Multicriteria Decision Making Algorithms. , 2009, , .		1
87	Decision making process for selection of electrical energy technologies in landfills. , 2011, , .		1
88	Selection of hybrid renewable energy systems in landfills. , 2012, , .		1
89	Intelligent system for automatic reconfiguration of distribution networks. , 2012, , .		1
90	Methodologies for the development of a central control system in a smart grid environment based in free softwares. , 2013, , .		1

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91	New alternatives to improve advanced distribution management systems using very short-term voltage prediction. , 2014, , .		1
92	Smart grid and the prospects of electricity demand forecast in Brazilian distribution system. , 2014, , .		1
93	Mapping of energetic potential in Southern Brazil to insertion of DG in distribution systems. , 2015, , .		1
94	Implementing a distributed firewall using a DHT network applied to Smart Grids. , 2016, , .		1
95	The operational impacts in the distribution network from the energy storage management through the reactive PV inverters dispatch in distributed generation systems. , 2017, , .		1
96	Roadmap in Residential Energy Storage Systems. , 2019, , .		1
97	Battery Energy Storage Systems: Impact Analysis on Different Loads with Distributed Generation. , 2019, , .		1
98	Intelligent Demand Response System integrated with Micro Generation and Energy Storage using Machine Learning and Internet of Things Concepts. , 2019, , .		1
99	The 2020 Power Blackout in the Brazilian State of AmapÃ¡: Lessons Learned and Opportunities. , 2021, , .		1
100	Multicriteria Analysis Of Impacts Of Distributed Generation Sources On Operational Network Characteristics For Distribution System Planning Concerning Steady-state And Transient Operations. EletrÃ´nica De PotÃªncia, 2024, 14, 75-83.	0.1	1
101	Planning Energy Distribution Systems in an Environment That Accelerates the Use of Distributed Energy Resources. , 2020, , .		1
102	Coordinated Microgrids Integration in Distribution System with Different Power Purchase Agreement Options. , 2021, , .		1
103	A Flexible-Reliable Operation Model of Storage and Distributed Generation in a Biogas Power Plant. Energies, 2022, 15, 3154.	1.6	1
104	Experimental Basis and Simulation Methodology for Fuel Cell Fed Converters Connected to Distribution Networks to Improve the Load Curve. , 0, , .		0
105	Impacts of distributed generation sitting concerning the appropriate choice of parameters in a multicriteria analysis. , 2008, , .		0
106	Renewable hybrid systems using biogas fuzzy multi-sets and fuzzy multi-rules. , 2009, , .		0
107	A critical analysis of CDM projects concerning sustainability: The use of fuzzy logic for CDM project selection. , 2010, , .		0
108	Financial impact of penalties applied to Brazilian energy distribution companies by exceeded of the limits of performance of power supply continuity. , 2011, , .		0

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109	Decision making process for selection of electrical energy technologies in landfills. , 2011, , .		0
110	A tool for real time analysis of parallelism of distribution networks. , 2012, , .		0
111	Supply contract management through the optimal dispatch of distributed generation. , 2012, , .		0
112	Alternatives for voltage control in the scenario of Smart Grids. , 2012, , .		0
113	Smart grid concepts applied to distribution network reconfiguration. , 2012, , .		0
114	Automatic restoration of power supply considering islanded operation of distribution network. , 2013, , .		0
115	Methodology for adjustment of limits of power supply continuity by Linear Programming. , 2013, , .		0
116	Grid of microgeneration distributed photovoltaic in small telecommunications stations in Southern of Brazil. , 2013, , .		0
117	Fuzzy logic applied for decision making in a demand management system. , 2013, , .		0
118	Automatic restoration of power supply with possibility of islanded operation of distribution network. , 2013, , .		0
119	Analysis of the distributed generation for ancillary services support in distribution networks. , 2014, , .		0
120	Application of M-MACBETH for defining an efficient operating regime of distributed generation sources connected to distribution network. , 2015, , .		0
121	Power quality considering the forecasting of quantities applied to interactive volt/VAR control. , 2015, , .		0
122	Diversification of Brazilian energy matrix by connecting distributed generation sources fuelled by biogas from swine manure. , 2016, , .		0
123	Commercial arrangement model for a distributed generation connection considering several agents. , 2016, , .		0
124	Technical-commercial management to increase the participation of micro and mini generation in the Brazilian energy sector. , 2017, , .		0
125	Methodology for Home Energy Management to Integration and Management of Distributed Energy Resources. , 2018, , .		0
126	Metaheuristic applied to very short term dispatch microgrids based on cloud coverage. , 2018, , .		0

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127	Minimization of the impacts caused by distributed generation to the electric system by exploring the reactive control range of solar inverters. , 2018, , .		0
128	Uncertainties in Virtual Power Plants. , 2019, , .		0
129	Simulation and analysis of OpenADR agents using VOLTTRON platform. , 2019, , .		0
130	Real-Time Hardware-In-the-Loop Testbed Applied to Voltage Control in Distribution Smart Grids. , 2019, , .		0
131	Electrical Impacts of the Distributed Generation with Incineration of Urban Solid Waste. , 2019, , .		0
132	Study of a Reliability Model for Distribution Systems Applied to the Residential Consumer. , 2019, , .		0
133	Transmission Cost Allocation using Nodal Methodology. , 2019, , .		0
134	Profit Study of the Combined Operation of a Wind Farm and a Batery Storage System in the MIBEL electricity market. , 2019, , .		0
135	Heuristic Transmission Expansion Planning Analysis Considering Generation Uncertainty. , 2019, , .		0
136	Intelligent Energy Management in Public Institutions. , 2019, , .		0
137	A Smart Home system using Artificial Intelligence and integration with Energy Storage and Microgeneration. , 2020, , .		0
138	Analysis of Microgrid Operation for Distribution System Support with Different Power Purchase Agreement Terms. , 2021, , .		0
139	Battery energy storage systems management in a day-ahead market scenario with transactive energy and private aggregators. , 2021, , .		0
140	Inserção de Infraestrutura de Chave Pública no Projeto OpenDHT. , 0, , .		0
141	Voltage Forecasting in a Very Short Time Through the Application of Nebulous Systems. Renewable Energy and Power Quality Journal, 0, 1, 906-912.	0.2	0
142	A Novel Virtual Power Plant Uncertainty Modeling Framework Using Unscented Transform. Energies, 2022, 15, 3716.	1.6	0