JoÃo Soares

List of Publications by Year in descending order

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115 papers	2,689 citations	218677 26 h-index	206112 48 g-index
116 all docs	116 docs citations	116 times ranked	2426 citing authors

#	Article	IF	Citations
1	Local Energy Markets: Paving the Path Toward Fully Transactive Energy Systems. IEEE Transactions on Power Systems, 2019, 34, 4081-4088.	6.5	217
2	Modified Particle Swarm Optimization Applied to Integrated Demand Response and DG Resources Scheduling. IEEE Transactions on Smart Grid, 2013, 4, 606-616.	9.0	164
3	Day-Ahead Resource Scheduling Including Demand Response for Electric Vehicles. IEEE Transactions on Smart Grid, 2013, 4, 596-605.	9.0	157
4	Demand response implementation in smart households. Energy and Buildings, 2017, 143, 129-148.	6.7	127
5	Day-ahead resource scheduling in smart grids considering Vehicle-to-Grid and network constraints. Applied Energy, 2012, 96, 183-193.	10.1	114
6	A multi-objective model for scheduling of short-term incentive-based demand response programs offered by electricity retailers. Applied Energy, 2015, 151, 102-118.	10.1	111
7	Electric Vehicle Scenario Simulator Tool for Smart Grid Operators. Energies, 2012, 5, 1881-1899.	3.1	93
8	A stochastic model for energy resources management considering demand response in smart grids. Electric Power Systems Research, 2017, 143, 599-610.	3.6	93
9	Demand Response Management in Power Systems Using Particle Swarm Optimization. IEEE Intelligent Systems, 2013, 28, 43-51.	4.0	85
10	Flexibility management model of home appliances to support DSO requests in smart grids. Sustainable Cities and Society, 2020, 55, 102048.	10.4	70
11	Two-Stage Stochastic Model Using Bendersâ€™ Decomposition for Large-Scale Energy Resource Management in Smart Grids. IEEE Transactions on Industry Applications, 2017, 53, 5905-5914.	4.9	67
12	Stochastic interval-based optimal offering model for residential energy management systems by household owners. International Journal of Electrical Power and Energy Systems, 2019, 105, 201-219.	5.5	65
13	A multi-objective model for the day-ahead energy resource scheduling of a smart grid with high penetration of sensitive loads. Applied Energy, 2016, 162, 1074-1088.	10.1	63
14	Optimal Model for Local Energy Community Scheduling Considering Peer to Peer Electricity Transactions. IEEE Access, 2021, 9, 12420-12430.	4.2	52
15	Anomaly Detection in Roads with a Data Mining Approach. Procedia Computer Science, 2017, 121, 415-422.	2.0	50
16	Optimal expansion planning considering storage investment and seasonal effect of demand and renewable generation. Renewable Energy, 2019, 138, 937-954.	8.9	49
17	Electric Vehiclesâ€™ User Charging Behaviour Simulator for a Smart City. Energies, 2019, 12, 1470.	3.1	47
18	Dynamic electricity pricing for electric vehicles using stochastic programming. Energy, 2017, 122, 111-127.	8.8	46

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19	Survey on Complex Optimization and Simulation for the New Power Systems Paradigm. Complexity, 2018, 2018, 1-32.	1.6	44
20	Congestion management in active distribution networks through demand response implementation. Sustainable Energy, Grids and Networks, 2019, 17, 100185.	3.9	44
21	Multi-dimensional signaling method for population-based metaheuristics: Solving the large-scale scheduling problem in smart grids. Swarm and Evolutionary Computation, 2016, 29, 13-32.	8.1	43
22	An optimal scheduling problem in distribution networks considering V2G. , 2011, , .		41
23	Scenario generation for electric vehicles' uncertain behavior in a smart city environment. Energy, 2016, 111, 664-675.	8.8	37
24	Decision Support for Small Players Negotiations Under a Transactive Energy Framework. IEEE Transactions on Power Systems, 2019, 34, 4015-4023.	6.5	37
25	Hybrid fuzzy Monte Carlo technique for reliability assessment in transmission power systems. Energy, 2012, 45, 1007-1017.	8.8	34
26	Optimal Distribution Grid Operation Using DLMP-Based Pricing for Electric Vehicle Charging Infrastructure in a Smart City. Energies, 2019, 12, 686.	3.1	34
27	Road Anomalies Detection System Evaluation. Sensors, 2018, 18, 1984.	3.8	32
28	Hybrid-adaptive differential evolution with decay function (HyDE-DF) applied to the 100-digit challenge competition on single objective numerical optimization. , 2019, , .		29
29	Liberalization and customer behavior in the Portuguese residential retail electricity market. Utilities Policy, 2019, 59, 100919.	4.0	27
30	Optimal Approach for Reliability Assessment in Radial Distribution Networks. IEEE Systems Journal, 2017, 11, 1846-1856.	4.6	26
31	Bidding in local electricity markets with cascading wholesale market integration. International Journal of Electrical Power and Energy Systems, 2021, 131, 107045.	5.5	26
32	Differential evolution strategies for large-scale energy resource management in smart grids. , 2017, , .		23
33	A New Hybrid-Adaptive Differential Evolution for a Smart Grid Application Under Uncertainty. , 2018, , .		23
34	Multi-objective parallel particle swarm optimization for day-ahead Vehicle-to-Grid scheduling. , 2013, , .		21
35	2017 IEEE competition on modern heuristic optimizers for smart grid operation: Testbeds and results. Swarm and Evolutionary Computation, 2019, 44, 420-427.	8.1	21
36	An Optimization Model for Energy Community Costs Minimization Considering a Local Electricity Market between Prosumers and Electric Vehicles. Electronics (Switzerland), 2021, 10, 129.	3.1	21

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37	Single contract power optimization: A novel business model for smart buildings using intelligent energy management. International Journal of Electrical Power and Energy Systems, 2022, 135, 107534.	5.5	20
38	Energy Management in Smart Building by a Multi-Objective Optimization Model and Pascoletti-Serafini Scalarization Approach. Processes, 2021, 9, 257.	2.8	19
39	A Specialized Long-Term Distribution System Expansion Planning Method With the Integration of Distributed Energy Resources. IEEE Access, 2022, 10, 19133-19148.	4.2	18
40	Short-term load forecasting based on load profiling. , 2013, , .		17
41	A Data-Mining-Based Methodology for Transmission Expansion Planning. IEEE Intelligent Systems, 2011, 26, 28-37.	4.0	16
42	A Mixed Binary Linear Programming Model for Optimal Energy Management of Smart Buildings. Energies, 2020, 13, 1719.	3.1	16
43	Mixed integer non-linear programming and Artificial Neural Network based approach to ancillary services dispatch in competitive electricity markets. Applied Energy, 2013, 108, 261-270.	10.1	15
44	Dynamic Pricing for Demand Response Considering Market Price Uncertainty. Energies, 2017, 10, 1245.	3.1	15
45	Technical and economic resources management in smart grids using heuristic optimization methods. , 2010, , .		14
46	A Short Review on Data Mining Techniques for Electricity Customers Characterization. , 2019, , .		14
47	Robust Energy Resource Management Incorporating Risk Analysis Using Conditional Value-at-Risk. IEEE Access, 2022, 10, 16063-16077.	4.2	14
48	Particle swarm optimization applied to integrated demand response resources scheduling. , 2011, , .		13
49	Boosting the Usage of Green Energy for EV Charging in Smart Buildings Managed by an Aggregator Through a Novel Renewable Usage Index. IEEE Access, 2021, 9, 105357-105368.	4.2	13
50	Smart City: A GECAD-BISITE Energy Management Case Study. Advances in Intelligent Systems and Computing, 2018, , 92-100.	0.6	12
51	A Robust Optimization for Day-ahead Microgrid Dispatch Considering Uncertainties. IFAC-PapersOnLine, 2017, 50, 3350-3355.	0.9	11
52	Data mining techniques for electricity customer characterization. Procedia Computer Science, 2021, 186, 475-488.	2.0	11
53	Particle Swarm Optimization based approaches to vehicle-to-grid scheduling. , 2012, , .		9
54	Enhanced Multi-Objective Energy Optimization by a Signaling Method. Energies, 2016, 9, 807.	3.1	9

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55	Optimal Bidding in Local Energy Markets using Evolutionary Computation. , 2019, , .		9
56	ANN based day-ahead ancillary services forecast for electricity market simulation. , 2010, , .		8
57	Demand response programs definition supported by clustering and classification techniques. , 2011, , .		8
58	Goal Programming Approach for Energy Management of Smart Building. IEEE Access, 2022, 10, 25341-25348.	4.2	8
59	WCCI/GECCO 2020 Competition on Evolutionary Computation in the Energy Domain: An overview from the winner perspective. Applied Soft Computing Journal, 2022, 125, 109162.	7.2	8
60	ANN Based Day-Ahead Spinning Reserve Forecast for Electricity Market Simulation. , 2009, , .		7
61	MicroGrid DER control including EVs in a residential area. , 2015, , .		7
62	Dispatch of distributed energy resources to provide energy and reserve in smart grids using a particle swarm optimization approach. , 2013, , .		6
63	Relaxation of non-convex problem as an initial solution of meta-heuristics for energy resource management. , 2015, , .		6
64	Multi-objective Particle Swarm Optimization to Solve Energy Scheduling with Vehicle-to-Grid in Office Buildings Considering Uncertainties. IFAC-PapersOnLine, 2017, 50, 3356-3361.	0.9	6
65	Genetic Algorithms for Portfolio Optimization with Weighted Sum Approach. , 2018, , .		6
66	Learning Bidding Strategies in Local Electricity Markets using Ant Colony optimization. , 2020, , .		6
67	Coordination strategies in distribution network considering multiple aggregators and high penetration of electric vehicles. Procedia Computer Science, 2021, 186, 698-705.	2.0	6
68	Coordination of Home Appliances for Demand Response: An Improved Optimization Model and Approach. IEEE Access, 2021, 9, 146183-146194.	4.2	6
69	VPP Energy Resources Management Considering Emissions: The Case of Northern Portugal 2020 to 2050. , 2015, , .		5
70	Probabilistic estimation of the state of Electric Vehicles for smart grid applications in big data context. , 2015, , .		5
71	Multi-objective robust optimization to solve energy scheduling in buildings under uncertainty. , 2017, , .		5
72	A Flexibility Home Energy Management System to Support Agreggator Requests in Smart Grids. , 2018, , .		5

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73	Day ahead electricity consumption forecasting with MOGUL learning model. , 2018, , .		5
74	A platform for testing the performance of metaheuristics solving the energy resource management problem in smart grids. Energy Informatics, 2018, 1, .	2.3	5
75	Decision Support for Negotiations among Microgrids Using a Multiagent Architecture. Energies, 2018, 11, 2526.	3.1	5
76	Increase of the delivered energy probability in DES using a fuzzy probabilistic modeling. , 2012, , .		4
77	Realistic traffic scenarios using a census methodology: Vila real case study. , 2014, , .		4
78	Toward retail competition in the Portuguese electricity market. , 2016, , .		4
79	Weighted sum approach using parallel Particle Swarm Optimization to solve multi-objective energy scheduling. , 2016, , .		4
80	A Short Review on Smart Building Energy Resource Optimization. , 2019, , .		4
81	Shared PV Production in Energy Communities and Buildings Context. Renewable Energy and Power Quality Journal, 0, 19, 459-464.	0.2	4
82	ZERMIA - A Fault Injector Framework for Testing Byzantine Fault Tolerant Protocols. Lecture Notes in Computer Science, 2021, , 38-60.	1.3	4
83	A data-mining based methodology for win forecasting. , 2011, , .		3
84	Data mining techniques contributions to support electrical vehicle demand response. , 2012, , .		3
85	Allocation of fixed costs considering Distributed Generation and distinct approaches of Demand Response remuneration in distribution networks. , 2016, , .		3
86	Business models for flexibility of electric vehicles. , 2019, , .		3
87	Increase of the delivered power probability in distribution networks using Pareto DC programming. , 2013, , .		2
88	Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs. , 2015, , .		2
89	Definition of the demand response events duration using differential search algorithm for aggregated consumption shifting and generation scheduling. , 2015, , .		2
90	Demand Response in Electric Vehicles Management Optimal Use of End-User Contracts. , 2015, , .		2

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91	Multiâ€criteria optimisation approach to increase the delivered power in radial distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 2565-2574.	2.5	2
92	A Road Condition Service Based on a Collaborative Mobile Sensing Approach. , 2018, , .		2
93	Differential Evolution Aplication in Portfolio optimization for Electricity Markets. , 2018, , .		2
94	CO2 Concentration Forecasting in an Office Using Artificial Neural Network. , 2019, , .		2
95	Logic programming and fuzzy Monte Carlo for distribution network reconfiguration. , 2011, , .		1
96	Quantum-based particle swarm optimization application to studies of aggregated consumption shifting and generation scheduling in smart grids. , 2014, , .		1
97	Scalable computational framework using intelligent optimization: Microgrids dispatch and electricity market joint simulation. IFAC-PapersOnLine, 2017, 50, 3362-3367.	0.9	1
98	Evolutionary framework for multi-dimensional signaling method applied to energy dispatch problems in smart grids. , 2017, , .		1
99	Long-Term Smart Grid Planning Under Uncertainty Considering Reliability Indexes. , 2018, , 297-335.		1
100	Complex Optimization and Simulation in Power Systems. Complexity, 2018, 2018, 1-3.	1.6	1
101	Day-Ahead Stochastic Scheduling Model Considering Market Transactions in Smart Grids. , 2018, , .		1
102	Learning Bidding Strategies in Local Electricity Markets using a Nature-Inspired Algorithm. , 2020, , .		1
103	Rethinking the Distribution Power Network Planning and Operation for a Sustainable Smart Grid and Smooth Interaction with Electrified Transportation. Energies, 2021, 14, 7931.	3.1	1
104	Cross Entropy Covariance Matrix Adaptation Evolution Strategy for Solving the Bi-Level Bidding Optimization Problem in Local Energy Markets. Energies, 2022, 15, 4838.	3.1	1
105	Modified discrete PSO to increase the delivered energy probability in distribution energy systems. , 2013, , .		0
106	Quantum-based PSO applied to hour-ahead scheduling in the context of smart grid management. , 2015, , .		0
107	Shared Intelligence for smart grids management. , 2016, , .		0
108	The effect of Demand Response in the minimum available reserve of energy management. , 2016, , .		0

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109	Shared intelligence platform for collaborative simulations using sequences of algorithms: An electricity market participation case study. , 2017, , .		0
110	A residential energy management system with offline population-based optimization. , 2017, , .		0
111	Complex Large-Scale Energy Resource Management Optimization Considering Demand Flexibility. , 2020, , .		0
112	Safety Isolating Transformer Design using HyDE-DF algorithm. , 2020, , .		0
113	Intelligent Resource Management in the context of a Microgrid of Smart Buildings. Renewable Energy and Power Quality Journal, 0, 19, 465-470.	0.2	0
114	Fuzzy-Probabilistic Estimation of the Electric Vehicles Energy Consumption. Lecture Notes in Computer Science, 2015, , 26-36.	1.3	0
115	Production scheduling considering dynamic electricity price in energy-efficient factories. IFAC-PapersOnLine, 2020, 53, 12584-12589.	0.9	0