

# João Soares

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Robust Energy Resource Management Incorporating Risk Analysis Using Conditional Value-at-Risk. IEEE Access, 2022, 10, 16063-16077.	4.2	14
4	Goal Programming Approach for Energy Management of Smart Building. IEEE Access, 2022, 10, 25341-25348.	4.2	8
5	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
6	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
7	Energy Management in Smart Building by a Multi-Objective Optimization Model and Pascoletti-Serafini Scalarization Approach. Processes, 2021, 9, 257.	2.8	19
8	Coordination strategies in distribution network considering multiple aggregators and high penetration of electric vehicles. Procedia Computer Science, 2021, 186, 698-705.	2.0	6
9	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
10	Data mining techniques for electricity customer characterization. Procedia Computer Science, 2021, 186, 475-488.	2.0	11
11	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
12	Optimal Model for Local Energy Community Scheduling Considering Peer to Peer Electricity Transactions. IEEE Access, 2021, 9, 12420-12430.	4.2	52
13	Bidding in local electricity markets with cascading wholesale market integration. International Journal of Electrical Power and Energy Systems, 2021, 131, 107045.	5.5	26
14	Coordination of Home Appliances for Demand Response: An Improved Optimization Model and Approach. IEEE Access, 2021, 9, 146183-146194.	4.2	6
15	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
16	ZERMIA - A Fault Injector Framework for Testing Byzantine Fault Tolerant Protocols. Lecture Notes in Computer Science, 2021, , 38-60.	1.3	4
17	Learning Bidding Strategies in Local Electricity Markets using Ant Colony optimization. , 2020, , .		6
18	Learning Bidding Strategies in Local Electricity Markets using a Nature-Inspired Algorithm. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Complex Large-Scale Energy Resource Management Optimization Considering Demand Flexibility. , 2020, , .		0
20	Safety Isolating Transformer Design using HyDE-DF algorithm. , 2020, , .		0
21	Flexibility management model of home appliances to support DSO requests in smart grids. Sustainable Cities and Society, 2020, 55, 102048.	10.4	70
22	A Mixed Binary Linear Programming Model for Optimal Energy Management of Smart Buildings. Energies, 2020, 13, 1719.	3.1	16
23	Production scheduling considering dynamic electricity price in energy-efficient factories. IFAC-PapersOnLine, 2020, 53, 12584-12589.	0.9	0
24	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
25	Local Energy Markets: Paving the Path Toward Fully Transactive Energy Systems. IEEE Transactions on Power Systems, 2019, 34, 4081-4088.	6.5	217
26	A Short Review on Data Mining Techniques for Electricity Customers Characterization. , 2019, , .		14
27	Hybrid-adaptive differential evolution with decay function (HyDE-DF) applied to the 100-digit challenge competition on single objective numerical optimization. , 2019, , .		29
28	Business models for flexibility of electric vehicles. , 2019, , .		3
29	Decision Support for Small Players Negotiations Under a Transactive Energy Framework. IEEE Transactions on Power Systems, 2019, 34, 4015-4023.	6.5	37
30	Liberalization and customer behavior in the Portuguese residential retail electricity market. Utilities Policy, 2019, 59, 100919.	4.0	27
31	A Short Review on Smart Building Energy Resource Optimization. , 2019, , .		4
32	Electric Vehiclesâ€™ User Charging Behaviour Simulator for a Smart City. Energies, 2019, 12, 1470.	3.1	47
33	Optimal Distribution Grid Operation Using DLMP-Based Pricing for Electric Vehicle Charging Infrastructure in a Smart City. Energies, 2019, 12, 686.	3.1	34
34	Optimal expansion planning considering storage investment and seasonal effect of demand and renewable generation. Renewable Energy, 2019, 138, 937-954.	8.9	49
35	CO2 Concentration Forecasting in an Office Using Artificial Neural Network. , 2019, , .		2
36	Optimal Bidding in Local Energy Markets using Evolutionary Computation. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
37	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
38	Congestion management in active distribution networks through demand response implementation. Sustainable Energy, Grids and Networks, 2019, 17, 100185.	3.9	44
39	Long-Term Smart Grid Planning Under Uncertainty Considering Reliability Indexes. , 2018, , 297-335.		1
40	A Flexibility Home Energy Management System to Support Agreggator Requests in Smart Grids. , 2018, , .		5
41	Genetic Algorithms for Portfolio Optimization with Weighted Sum Approach. , 2018, , .		6
42	Day ahead electricity consumption forecasting with MOGUL learning model. , 2018, , .		5
43	A platform for testing the performance of metaheuristics solving the energy resource management problem in smart grids. Energy Informatics, 2018, 1, .	2.3	5
44	A Road Condition Service Based on a Collaborative Mobile Sensing Approach. , 2018, , .		2
45	A New Hybrid-Adaptive Differential Evolution for a Smart Grid Application Under Uncertainty. , 2018, , .		23
46	Complex Optimization and Simulation in Power Systems. Complexity, 2018, 2018, 1-3.	1.6	1
47	Differential Evolution Application in Portfolio optimization for Electricity Markets. , 2018, , .		2
48	Decision Support for Negotiations among Microgrids Using a Multiagent Architecture. Energies, 2018, 11, 2526.	3.1	5
49	Day-Ahead Stochastic Scheduling Model Considering Market Transactions in Smart Grids. , 2018, , .		1
50	Survey on Complex Optimization and Simulation for the New Power Systems Paradigm. Complexity, 2018, 2018, 1-32.	1.6	44
51	Road Anomalies Detection System Evaluation. Sensors, 2018, 18, 1984.	3.8	32
52	Smart City: A GECAD-BISITE Energy Management Case Study. Advances in Intelligent Systems and Computing, 2018, , 92-100.	0.6	12
53	Optimal Approach for Reliability Assessment in Radial Distribution Networks. IEEE Systems Journal, 2017, 11, 1846-1856.	4.6	26
54	Demand response implementation in smart households. Energy and Buildings, 2017, 143, 129-148.	6.7	127

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55	Dynamic electricity pricing for electric vehicles using stochastic programming. Energy, 2017, 122, 111-127.	8.8	46
56	Multi-objective robust optimization to solve energy scheduling in buildings under uncertainty. , 2017, , .		5
57	A Robust Optimization for Day-ahead Microgrid Dispatch Considering Uncertainties. IFAC-PapersOnLine, 2017, 50, 3350-3355.	0.9	11
58	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
59	Scalable computational framework using intelligent optimization: Microgrids dispatch and electricity market joint simulation. IFAC-PapersOnLine, 2017, 50, 3362-3367.	0.9	1
60	Shared intelligence platform for collaborative simulations using sequences of algorithms: An electricity market participation case study. , 2017, , .		0
61	Differential evolution strategies for large-scale energy resource management in smart grids. , 2017, , .		23
62	Two-Stage Stochastic Model Using Benders's™ Decomposition for Large-Scale Energy Resource Management in Smart Grids. IEEE Transactions on Industry Applications, 2017, 53, 5905-5914.	4.9	67
63	A stochastic model for energy resources management considering demand response in smart grids. Electric Power Systems Research, 2017, 143, 599-610.	3.6	93
64	Anomaly Detection in Roads with a Data Mining Approach. Procedia Computer Science, 2017, 121, 415-422.	2.0	50
65	Evolutionary framework for multi-dimensional signaling method applied to energy dispatch problems in smart grids. , 2017, , .		1
66	A residential energy management system with offline population-based optimization. , 2017, , .		0
67	Dynamic Pricing for Demand Response Considering Market Price Uncertainty. Energies, 2017, 10, 1245.	3.1	15
68	Enhanced Multi-Objective Energy Optimization by a Signaling Method. Energies, 2016, 9, 807.	3.1	9
69	Shared Intelligence for smart grids management. , 2016, , .		0
70	Allocation of fixed costs considering Distributed Generation and distinct approaches of Demand Response remuneration in distribution networks. , 2016, , .		3
71	Toward retail competition in the Portuguese electricity market. , 2016, , .		4
72	Weighted sum approach using parallel Particle Swarm Optimization to solve multi-objective energy scheduling. , 2016, , .		4

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73	The effect of Demand Response in the minimum available reserve of energy management. , 2016, , .		0
74	Scenario generation for electric vehicles' uncertain behavior in a smart city environment. Energy, 2016, 111, 664-675.	8.8	37
75	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
76	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
77	Relaxation of non-convex problem as an initial solution of meta-heuristics for energy resource management. , 2015, , .		6
78	VPP Energy Resources Management Considering Emissions: The Case of Northern Portugal 2020 to 2050. , 2015, , .		5
79	Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs. , 2015, , .		2
80	Definition of the demand response events duration using differential search algorithm for aggregated consumption shifting and generation scheduling. , 2015, , .		2
81	Demand Response in Electric Vehicles Management Optimal Use of End-User Contracts. , 2015, , .		2
82	Multi-criteria optimisation approach to increase the delivered power in radial distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 2565-2574.	2.5	2
83	Quantum-based PSO applied to hour-ahead scheduling in the context of smart grid management. , 2015, , .		0
84	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
85	Probabilistic estimation of the state of Electric Vehicles for smart grid applications in big data context. , 2015, , .		5
86	MicroGrid DER control including EVs in a residential area. , 2015, , .		7
87	Fuzzy-Probabilistic Estimation of the Electric Vehicles Energy Consumption. Lecture Notes in Computer Science, 2015, , 26-36.	1.3	0
88	Realistic traffic scenarios using a census methodology: Vila real case study. , 2014, , .		4
89	Quantum-based particle swarm optimization application to studies of aggregated consumption shifting and generation scheduling in smart grids. , 2014, , .		1
90	Dispatch of distributed energy resources to provide energy and reserve in smart grids using a particle swarm optimization approach. , 2013, , .		6

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91	Demand Response Management in Power Systems Using Particle Swarm Optimization. IEEE Intelligent Systems, 2013, 28, 43-51.	4.0	85
92	Short-term load forecasting based on load profiling. , 2013, , .		17
93	Day-Ahead Resource Scheduling Including Demand Response for Electric Vehicles. IEEE Transactions on Smart Grid, 2013, 4, 596-605.	9.0	157
94	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
95	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
96	Multi-objective parallel particle swarm optimization for day-ahead Vehicle-to-Grid scheduling. , 2013, , .		21
97	Modified discrete PSO to increase the delivered energy probability in distribution energy systems. , 2013, , .		0
98	Increase of the delivered power probability in distribution networks using Pareto DC programming. , 2013, , .		2
99	Electric Vehicle Scenario Simulator Tool for Smart Grid Operators. Energies, 2012, 5, 1881-1899.	3.1	93
100	Increase of the delivered energy probability in DES using a fuzzy probabilistic modeling. , 2012, , .		4
101	Particle Swarm Optimization based approaches to vehicle-to-grid scheduling. , 2012, , .		9
102	Data mining techniques contributions to support electrical vehicle demand response. , 2012, , .		3
103	Day-ahead resource scheduling in smart grids considering Vehicle-to-Grid and network constraints. Applied Energy, 2012, 96, 183-193.	10.1	114
104	Hybrid fuzzy Monte Carlo technique for reliability assessment in transmission power systems. Energy, 2012, 45, 1007-1017.	8.8	34
105	Demand response programs definition supported by clustering and classification techniques. , 2011, , .		8
106	A data-mining based methodology for win forecasting. , 2011, , .		3
107	A Data-Mining-Based Methodology for Transmission Expansion Planning. IEEE Intelligent Systems, 2011, 26, 28-37.	4.0	16
108	Particle swarm optimization applied to integrated demand response resources scheduling. , 2011, , .		13

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109	An optimal scheduling problem in distribution networks considering V2G. , 2011, , .		41
110	Logic programming and fuzzy Monte Carlo for distribution network reconfiguration. , 2011, , .		1
111	Technical and economic resources management in smart grids using heuristic optimization methods. , 2010, , .		14
112	ANN based day-ahead ancillary services forecast for electricity market simulation. , 2010, , .		8
113	ANN Based Day-Ahead Spinning Reserve Forecast for Electricity Market Simulation. , 2009, , .		7
114	Shared PV Production in Energy Communities and Buildings Context. Renewable Energy and Power Quality Journal, 0, 19, 459-464.	0.2	4
115	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