

Fernando Lezama

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,054
citations

567247

15
h-index

454934

30
g-index

61
all docs

61
docs citations

61
times ranked

964
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	Towards transactive energy systems: An analysis on current trends. Energy Strategy Reviews, 2019, 26, 100418.	7.3	161
3	Flexibility management model of home appliances to support DSO requests in smart grids. Sustainable Cities and Society, 2020, 55, 102048.	10.4	70
4	Optimal Model for Local Energy Community Scheduling Considering Peer to Peer Electricity Transactions. IEEE Access, 2021, 9, 12420-12430.	4.2	52
5	Optimal expansion planning considering storage investment and seasonal effect of demand and renewable generation. Renewable Energy, 2019, 138, 937-954.	8.9	49
6	Electric Vehiclesâ€™ User Charging Behaviour Simulator for a Smart City. Energies, 2019, 12, 1470.	3.1	47
7	Survey on Complex Optimization and Simulation for the New Power Systems Paradigm. Complexity, 2018, 2018, 1-32.	1.6	44
8	Hybrid-adaptive differential evolution with decay function (HyDE-DF) applied to the 100-digit challenge competition on single objective numerical optimization. , 2019, , .		29
9	Differential evolution strategies for large-scale energy resource management in smart grids. , 2017, , .		23
10	A New Hybrid-Adaptive Differential Evolution for a Smart Grid Application Under Uncertainty. , 2018, , .		23
11	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
12	Trunk Reservation for Fair Utilization in Flexible Optical Networks. IEEE Communications Letters, 2014, 18, 889-892.	4.1	20
13	Routing and wavelength assignment in all optical networks using differential evolution optimization. Photonic Network Communications, 2013, 26, 103-119.	2.7	18
14	Agent-Based Microgrid Scheduling: An ICT Perspective. Mobile Networks and Applications, 2019, 24, 1682-1698.	3.3	18
15	Demand Response of Residential Houses Equipped with PV-Battery Systems: An Application Study Using Evolutionary Algorithms. Energies, 2020, 13, 2466.	3.1	18
16	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
17	Differential evolution optimization applied to the routing and spectrum allocation problem in flexgrid optical networks. Photonic Network Communications, 2016, 31, 129-146.	2.7	17
18	Closed frequent similar pattern mining: Reducing the number of frequent similar patterns without information loss. Expert Systems With Applications, 2018, 96, 271-283.	7.6	16

#	ARTICLE	IF	CITATIONS
19	A Mixed Binary Linear Programming Model for Optimal Energy Management of Smart Buildings. Energies, 2020, 13, 1719.	3.1	16
20	A Short Review on Data Mining Techniques for Electricity Customers Characterization. , 2019, , .		14
21	Robust Energy Resource Management Incorporating Risk Analysis Using Conditional Value-at-Risk. IEEE Access, 2022, 10, 16063-16077.	4.2	14
22	Differential evolution optimization applied to the wavelength converters placement problem in all optical networks. Computer Networks, 2012, 56, 2262-2275.	5.1	12
23	Optimal Bidding in Local Energy Markets using Evolutionary Computation. , 2019, , .		9
24	Optimal strategy of electricity and natural gas aggregators in the energy and balance markets. Energy, 2022, 257, 124753.	8.8	9
25	Routing and spectrum allocation in flexgrid optical networks using differential evolution optimization. , 2014, , .		8
26	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
27	Load pattern clustering using differential evolution with Pareto Tournament. , 2016, , .		7
28	Solving routing and spectrum allocation problems in flexgrid optical networks using pre-computing strategies. Photonic Network Communications, 2021, 41, 17-35.	2.7	7
29	Cellular estimation of distribution algorithm designed to solve the energy resource management problem under uncertainty. Engineering Applications of Artificial Intelligence, 2021, 101, 104231.	8.1	7
30	Survivable virtual topology mapping in IP-over-WDM networks using differential evolution optimization. Photonic Network Communications, 2014, 28, 306-319.	2.7	6
31	Genetic Algorithms for Portfolio Optimization with Weighted Sum Approach. , 2018, , .		6
32	New Detection Paradigms to Improve Wireless Sensor Network Performance under Jamming Attacks. Sensors, 2019, 19, 2489.	3.8	6
33	Learning Bidding Strategies in Local Electricity Markets using Ant Colony optimization. , 2020, , .		6
34	Coordination of Home Appliances for Demand Response: An Improved Optimization Model and Approach. IEEE Access, 2021, 9, 146183-146194.	4.2	6
35	Electrical Load Pattern Shape Clustering Using Ant Colony Optimization. Lecture Notes in Computer Science, 2016, , 491-506.	1.3	5
36	Multi-objective robust optimization to solve energy scheduling in buildings under uncertainty. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
37	A Flexibility Home Energy Management System to Support Agreggator Requests in Smart Grids. , 2018, , .		5
38	A platform for testing the performance of metaheuristics solving the energy resource management problem in smart grids. Energy Informatics, 2018, 1, .	2.3	5
39	A competitive and profitable multi-agent autonomous broker for energy markets. Sustainable Cities and Society, 2019, 49, 101590.	10.4	5
40	Trunk reservation for elastic optical networks. , 2013, , .		4
41	A Short Review on Smart Building Energy Resource Optimization. , 2019, , .		4
42	Business models for flexibility of electric vehicles. , 2019, , .		3
43	Differential Evolution Aplication in Portfolio optimization for Electricity Markets. , 2018, , .		2
44	Optimal Scheduling of On/Off Cycles: A Decentralized IoT-Microgrid Approach. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 79-90.	0.3	2
45	Large-scale optimization of households with photovoltaic-battery system and demand response. IFAC-PapersOnLine, 2020, 53, 12572-12577.	0.9	2
46	Survivable Virtual Topology Mapping in IP-Over-WDM networks using differential evolution optimization. , 2013, , .		1
47	Impact of spectral width on signal transmission distance in elastic optical network. , 2014, , .		1
48	CML-WSN: A Configurable Multi-layer Wireless Sensor Network Simulator. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 91-102.	0.3	1
49	Evolutionary framework for multi-dimensional signaling method applied to energy dispatch problems in smart grids. , 2017, , .		1
50	Complex Optimization and Simulation in Power Systems. Complexity, 2018, 2018, 1-3.	1.6	1
51	Day-Ahead Stochastic Scheduling Model Considering Market Transactions in Smart Grids. , 2018, , .		1
52	Learning Bidding Strategies in Local Electricity Markets using a Nature-Inspired Algorithm. , 2020, , .		1
53	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
54	On the Impact of the Differential Evolution Parameters in the Solution of the Survivable Virtual Topology-Mapping Problem in IP-Over-WDM Networks. , 2015, , 117-140.		0

#	ARTICLE	IF	CITATIONS
55	A residential energy management system with offline population-based optimization. , 2017, , .		0
56	Differential Evolution Optimization for a Residential Demand Response Application. , 2019, , .		0
57	Complex Large-Scale Energy Resource Management Optimization Considering Demand Flexibility. , 2020, , .		0
58	Safety Isolating Transformer Design using HyDE-DF algorithm. , 2020, , .		0
59	Wavelength and Routing Assignment in All Optical Networks Using Ant Colony Optimization. , 0, , 217-234.		0
60	Multi-Objective Energy Bill Optimization Considering Demand Response in a Residential House. , 2020, , .		0