

Hamed Mohsenian-Rad

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

4,920
citations

201674

27
h-index

189892

50
g-index

104
all docs

104
docs citations

104
times ranked

4087
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Demand Side Management for the Future Smart Grid Using Mechanism Design. IEEE Transactions on Smart Grid, 2012, 3, 1170-1180.	9.0	654
2	Vehicle-to-Aggregator Interaction Game. IEEE Transactions on Smart Grid, 2012, 3, 434-442.	9.0	352
3	Transforming Energy Networks via Peer-to-Peer Energy Trading: The Potential of Game-Theoretic Approaches. IEEE Signal Processing Magazine, 2018, 35, 90-111.	5.6	310
4	False data injection attacks with incomplete information against smart power grids. , 2012, , .		210
5	Optimal Operation of Independent Storage Systems in Energy and Reserve Markets With High Wind Penetration. IEEE Transactions on Smart Grid, 2014, 5, 1088-1097.	9.0	190
6	Tackling the Load Uncertainty Challenges for Energy Consumption Scheduling in Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 1007-1016.	9.0	148
7	Achieving Optimality and Fairness in Autonomous Demand Response: Benchmarks and Billing Mechanisms. IEEE Transactions on Smart Grid, 2013, 4, 968-975.	9.0	142
8	Coordinated Price-Maker Operation of Large Energy Storage Units in Nodal Energy Markets. IEEE Transactions on Power Systems, 2016, 31, 786-797.	6.5	134
9	Dynamic Load Altering Attacks Against Power System Stability: Attack Models and Protection Schemes. IEEE Transactions on Smart Grid, 2018, 9, 2862-2872.	9.0	133
10	Optimal Bidding, Scheduling, and Deployment of Battery Systems in California Day-Ahead Energy Market. IEEE Transactions on Power Systems, 2016, 31, 442-453.	6.5	130
11	Opportunities and challenges for data center demand response. , 2014, , .		126
12	Locating the Source of Events in Power Distribution Systems Using Micro-PMU Data. IEEE Transactions on Power Systems, 2018, 33, 6343-6354.	6.5	110
13	Situational Awareness in Distribution Grid Using Micro-PMU Data: A Machine Learning Approach. IEEE Transactions on Smart Grid, 2019, 10, 6167-6177.	9.0	110
14	Real-Time Pricing for Demand Response Based on Stochastic Approximation. IEEE Transactions on Smart Grid, 2014, 5, 789-798.	9.0	106
15	Optimal Demand Bidding for Time-Shiftable Loads. IEEE Transactions on Power Systems, 2015, 30, 939-951.	6.5	101
16	False data injection attacks against nonlinear state estimation in smart power grids. , 2013, , .		100
17	Power systems big data analytics: An assessment of paradigm shift barriers and prospects. Energy Reports, 2018, 4, 91-100.	5.1	94
18	Proactive Demand Response for Data Centers: A Win-Win Solution. IEEE Transactions on Smart Grid, 2016, 7, 1584-1596.	9.0	85

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19	Independent distributed generation planning to profit both utility and DG investors. IEEE Transactions on Power Systems, 2013, 28, 1170-1178.	6.5	73
20	Distribution Synchronphasors: Pairing Big Data with Analytics to Create Actionable Information. IEEE Power and Energy Magazine, 2018, 16, 26-34.	1.6	73
21	Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. IEEE Transactions on Smart Grid, 2020, 11, 1159-1170.	9.0	70
22	Optimal integration of renewable energy resources in data centers with behind-the-meter renewable generator. , 2012, , .		64
23	Towards Building an Optimal Demand Response Framework for DC Distribution Networks. IEEE Transactions on Smart Grid, 2014, 5, 2626-2634.	9.0	62
24	Energy Portfolio Optimization of Data Centers. IEEE Transactions on Smart Grid, 2017, 8, 1898-1910.	9.0	53
25	Distribution Grid Reliability Versus Regulation Market Efficiency: An Analysis Based on Micro-PMU Data. IEEE Transactions on Smart Grid, 2017, 8, 2916-2925.	9.0	53
26	Optimal Bidding in Performance-Based Regulation Markets: An MPEC Analysis With System Dynamics. IEEE Transactions on Power Systems, 2017, 32, 1282-1292.	6.5	52
27	Data centers to offer ancillary services. , 2012, , .		50
28	PEV-based combined frequency and voltage regulation for smart grid. , 2012, , .		48
29	Dynamic load altering attacks in smart grid. , 2015, , .		46
30	Decentralized Reactive Power Compensation Using Nash Bargaining Solution. IEEE Transactions on Smart Grid, 2017, 8, 1679-1688.	9.0	46
31	Price-Maker Economic Bidding in Two-Settlement Pool-Based Markets: The Case of Time-Shiftable Loads. IEEE Transactions on Power Systems, 2016, 31, 695-705.	6.5	45
32	Wind power integration via aggregator-consumer coordination: A game theoretic approach. , 2012, , .		43
33	Optimal Charging of Electric Vehicles With Uncertain Departure Times: A Closed-Form Solution. IEEE Transactions on Smart Grid, 2015, 6, 940-942.	9.0	42
34	Customer-Side SCADA-Assisted Large Battery Operation Optimization for Distribution Feeder Peak Load Shaving. IEEE Transactions on Smart Grid, 2019, 10, 992-1004.	9.0	39
35	Location identification of high impedance faults using synchronized harmonic phasors. , 2017, , .		38
36	Extending Demand Response to Tenants in Cloud Data Centers via Non-Intrusive Workload Flexibility Pricing. IEEE Transactions on Smart Grid, 2018, 9, 3235-3246.	9.0	30

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37	A data-driven analysis of capacitor bank operation at a distribution feeder using micro-PMU data. , 2017, , .		28
38	Energy Storage Planning in Active Distribution Grids: A Chance-Constrained Optimization with Non-Parametric Probability Functions. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	27
39	Synchronous Waveform Measurements to Locate Transient Events and Incipient Faults in Power Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 4295-4307.	9.0	27
40	Optimal industrial load control in smart grid: A case study for oil refineries. , 2013, , .		25
41	Developing a Test Data Set for Electric Vehicle Applications in Smart Grid Research. , 2014, , .		24
42	Optimal risk-aware power procurement for data centers in day-ahead and real-time electricity markets. , 2014, , .		24
43	Switch Status Identification in Distribution Networks Using Harmonic Synchrophasor Measurements. IEEE Transactions on Smart Grid, 2021, 12, 2413-2424.	9.0	24
44	Optimal Market Participation of Distributed Load Resources Under Distribution Network Operational Limits and Renewable Generation Uncertainties. IEEE Transactions on Smart Grid, 2019, 10, 3549-3561.	9.0	22
45	Location identification of distribution network events using synchrophasor data. , 2017, , .		21
46	PEV-based reactive power compensation for wind DG units: A stackelberg game approach. , 2012, , .		20
47	Profit maximization and power management of green data centers supporting multiple slas. , 2013, , .		20
48	Individual Load Model Parameter Estimation in Distribution Systems Using Load Switching Events. IEEE Transactions on Power Systems, 2019, 34, 4652-4664.	6.5	20
49	Hierarchical Location Identification of Destabilizing Faults and Attacks in Power Systems: A Frequency-Domain Approach. IEEE Transactions on Smart Grid, 2019, 10, 2036-2045.	9.0	20
50	A Synchronized Lissajous-Based Method to Detect and Classify Events in Synchro-Waveform Measurements in Power Distribution Networks. IEEE Transactions on Smart Grid, 2022, 13, 2170-2184.	9.0	20
51	Tackling co-existence and fairness challenges in autonomous Demand Side Management. , 2012, , .		19
52	A Closer Look at Demand Bids in California ISO Energy Market. IEEE Transactions on Power Systems, 2016, 31, 3330-3331.	6.5	19
53	Autopsy on active distribution networks: A data-driven fault analysis using micro-PMU data. , 2017, , .		18
54	Unsupervised Event Detection, Clustering, and Use Case Exposition in Micro-PMU Measurements. IEEE Transactions on Smart Grid, 2021, 12, 3624-3636.	9.0	18

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55	Utility-Optimal Random Access for Wireless Multimedia Networks. IEEE Wireless Communications Letters, 2012, 1, 340-343.	5.0	16
56	A data-driven analysis of lightning-initiated contingencies at a distribution grid with a PV farm using Micro-PMU data. , 2017, , .		16
57	Unsupervised Learning for Online Abnormality Detection in Smart Meter Data. , 2019, , .		15
58	Detecting dynamic load altering attacks: A data-driven time-frequency analysis. , 2015, , .		14
59	Distribution grid reliability analysis considering regulation down load resources via micro-PMU data. , 2016, , .		14
60	A stochastic programming framework for optimal storage bidding in energy and reserve markets. , 2013, , .		13
61	PEV-based P-Q control in line distribution networks with high requirement for reactive power compensation. , 2014, , .		13
62	Data mining based on random forest model to predict the California ISO day-ahead market prices. , 2017, , .		13
63	Cyberattacks Against Event-Based Analysis in Micro-PMUs: Attack Models and Counter Measures. IEEE Transactions on Smart Grid, 2021, 12, 1577-1588.	9.0	13
64	Characterizing Synchronized Lissajous Curves to Scrutinize Power Distribution Synchro-Waveform Measurements. IEEE Transactions on Power Systems, 2021, 36, 4880-4883.	6.5	12
65	Linear Distribution System State Estimation Using Synchrophasor Data and Pseudo-Measurement. , 2019, , .		11
66	Optimal Operation of Grid-Tied Energy Storage Systems Considering Detailed Device-Level Battery Models. IEEE Transactions on Industrial Informatics, 2020, 16, 3928-3941.	11.3	11
67	Strategic Convergence Bidding in Nodal Electricity Markets: Optimal Bid Selection and Market Implications. IEEE Transactions on Power Systems, 2021, 36, 891-901.	6.5	11
68	Sparse Distribution System State Estimation: An Approximate Solution Against Low Observability. , 2020, , .		10
69	Identification of destabilizing attacks in power systems. , 2017, , .		9
70	Power hardware-in-loop simulation of grid-connected battery systems with reactive power control capability. , 2017, , .		9
71	Anomaly Detection in IoT-Based PIR Occupancy Sensors to Improve Building Energy Efficiency. , 2020, , .		9
72	Event Location Identification in Distribution Networks Using Waveform Measurement Units. , 2020, , .		9

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73	Performance Accuracy Scores in CAISO and MISO Regulation Markets: A Comparison Based on Real Data and Mathematical Analysis. IEEE Transactions on Power Systems, 2018, 33, 3196-3198.	6.5	8
74	Sparse Tracking State Estimation for Low-Observable Power Distribution Systems Using D-PMUs. IEEE Transactions on Power Systems, 2022, 37, 551-564.	6.5	8
75	Strategic selection of capacity and mileage bids in California ISO performance-based regulation market. , 2016, , .		7
76	Battery-assisted distribution feeder peak load reduction: Stochastic optimization and utility-scale implementation. , 2016, , .		7
77	Understanding the Structural Characteristics of Convergence Bidding in Nodal Electricity Markets. IEEE Transactions on Industrial Informatics, 2021, 17, 124-134.	11.3	7
78	Challenges and opportunities in large-scale deployment of automated energy consumption scheduling systems in smart grids. , 2012, , .		6
79	Extended-time demand bids: A new bidding framework to accommodate time-shiftable loads. , 2015, , .		6
80	Tracking State Estimation in Distribution Networks Using Distribution-level Synchrophasor Data. , 2018, , .		6
81	A Machine Learning Approach to Event Analysis in Distribution Feeders Using Distribution Synchrophasors. , 2019, , .		6
82	Analysis of Cyber Attacks Against Micro-PMUs: The Case of Event Source Location Identification. , 2020, , .		6
83	A Convex Optimization Framework for Service Rate Allocation in Finite Communications Buffers. IEEE Communications Letters, 2016, 20, 69-72.	4.1	5
84	Optimal Cell Removal to Enhance Operation of Aged Grid-Tied Battery Storage Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 739-742.	8.8	5
85	Propagating Electricity Bill onto Cloud Tenants: Using a Novel Pricing Mechanism. , 2015, , .		4
86	A data-driven analysis of supply bids in California ISO market: Price elasticity and impact of renewables. , 2017, , .		4
87	Locating the Source of Events in Power Distribution Systems Using Micro-PMU Data. , 2019, , .		4
88	A Data-Driven Convergence Bidding Strategy Based on Reverse Engineering of Market Participants's™ Performance: A Case of California ISO. IEEE Transactions on Power Systems, 2022, 37, 2122-2136.	6.5	4
89	Autonomous demand response in heterogeneous smart grid topologies. , 2013, , .		3
90	Repeated Intersession Network Coding Games: Efficiency and Min-Max Bargaining Solution. IEEE/ACM Transactions on Networking, 2014, 22, 1121-1135.	3.8	3

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91	Sensitivity analysis of convergence bids in nodal electricity markets. , 2017, , .		3
92	Cost-Aware Traffic Management Under Demand Uncertainty from a Colocation Data Center Userâ€™s Perspective. IEEE Transactions on Services Computing, 2021, 14, 400-412.	4.6	3
93	Event-Based Analysis of Solar Power Distribution Feeder Using Micro-PMU Measurements. , 2021, , .		3
94	A Data-Driven Study to Discover, Characterize, and Classify Convergence Bidding Strategies in California ISO Energy Market. , 2021, , .		3
95	A Synchronized Lissajous-based Approach to Achieve Situational Awareness Using Synchronized Waveform Measurements. , 2021, , .		3
96	Automated Event Region Identification and Its Data-Driven Applications in Behind-the-Meter Solar Farms Based on Micro-PMU Measurements. IEEE Transactions on Smart Grid, 2022, 13, 2094-2106.	9.0	3
97	Physics-Aware Sparse Harmonic State Estimation in Power Distribution Systems. , 2022, , .		3
98	Physics-Conditioned Generative Adversarial Networks for State Estimation in Active Power Distribution Systems with Low Observability. , 2022, , .		3
99	Optimal demand bidding for time-shiftable loads. , 2015, , .		2
100	Poisoning Attack against Event Classification in Distribution Synchrophasor Measurements. , 2021, , .		2
101	Impact Analysis and Mitigation of Losing Time Synchronization at Micro-PMUs in Event Location Identification. , 2022, , .		1
102	Propagating Electricity Bill onto Cloud Tenants: Using a Novel Pricing Mechanism. , 2014, , .		0