

# 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	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
2	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
3	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
4	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
5	Impact Analysis and Mitigation of Losing Time Synchronization at Micro-PMUs in Event Location Identification. , 2022, , .		1
6	Physics-Aware Sparse Harmonic State Estimation in Power Distribution Systems. , 2022, , .		3
7	Physics-Conditioned Generative Adversarial Networks for State Estimation in Active Power Distribution Systems with Low Observability. , 2022, , .		3
8	Cost-Aware Traffic Management Under Demand Uncertainty from a Colocation Data Center User's Perspective. IEEE Transactions on Services Computing, 2021, 14, 400-412.	4.6	3
9	Understanding the Structural Characteristics of Convergence Bidding in Nodal Electricity Markets. IEEE Transactions on Industrial Informatics, 2021, 17, 124-134.	11.3	7
10	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
11	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
12	Switch Status Identification in Distribution Networks Using Harmonic Synchrophasor Measurements. IEEE Transactions on Smart Grid, 2021, 12, 2413-2424.	9.0	24
13	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
14	Event-Based Analysis of Solar Power Distribution Feeder Using Micro-PMU Measurements. , 2021, , .		3
15	A Data-Driven Study to Discover, Characterize, and Classify Convergence Bidding Strategies in California ISO Energy Market. , 2021, , .		3
16	Unsupervised Event Detection, Clustering, and Use Case Exposition in Micro-PMU Measurements. IEEE Transactions on Smart Grid, 2021, 12, 3624-3636.	9.0	18
17	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
18	Characterizing Synchronized Lissajous Curves to Scrutinize Power Distribution Synchro-Waveform Measurements. IEEE Transactions on Power Systems, 2021, 36, 4880-4883.	6.5	12

#	ARTICLE	IF	CITATIONS
19	A Synchronized Lissajous-based Approach to Achieve Situational Awareness Using Synchronized Waveform Measurements. , 2021, , .		3
20	Poisoning Attack against Event Classification in Distribution Synchrophasor Measurements. , 2021, , .		2
21	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
22	Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. IEEE Transactions on Smart Grid, 2020, 11, 1159-1170.	9.0	70
23	Sparse Distribution System State Estimation: An Approximate Solution Against Low Observability. , 2020, , .		10
24	Analysis of Cyber Attacks Against Micro-PMUs: The Case of Event Source Location Identification. , 2020, , .		6
25	Anomaly Detection in IoT-Based PIR Occupancy Sensors to Improve Building Energy Efficiency. , 2020, , .		9
26	Event Location Identification in Distribution Networks Using Waveform Measurement Units. , 2020, , .		9
27	Individual Load Model Parameter Estimation in Distribution Systems Using Load Switching Events. IEEE Transactions on Power Systems, 2019, 34, 4652-4664.	6.5	20
28	A Machine Learning Approach to Event Analysis in Distribution Feeders Using Distribution Synchrophasors. , 2019, , .		6
29	Linear Distribution System State Estimation Using Synchrophasor Data and Pseudo-Measurement. , 2019, , .		11
30	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
31	Unsupervised Learning for Online Abnormality Detection in Smart Meter Data. , 2019, , .		15
32	Locating the Source of Events in Power Distribution Systems Using Micro-PMU Data. , 2019, , .		4
33	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
34	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
35	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
36	Power systems big data analytics: An assessment of paradigm shift barriers and prospects. Energy Reports, 2018, 4, 91-100.	5.1	94

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37	Distribution Synchrophasors: Pairing Big Data with Analytics to Create Actionable Information. IEEE Power and Energy Magazine, 2018, 16, 26-34.	1.6	73
38	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
39	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
40	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
41	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
42	Tracking State Estimation in Distribution Networks Using Distribution-level Synchrophasor Data. , 2018, , .		6
43	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
44	Energy Portfolio Optimization of Data Centers. IEEE Transactions on Smart Grid, 2017, 8, 1898-1910.	9.0	53
45	Decentralized Reactive Power Compensation Using Nash Bargaining Solution. IEEE Transactions on Smart Grid, 2017, 8, 1679-1688.	9.0	46
46	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
47	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
48	A data-driven analysis of capacitor bank operation at a distribution feeder using micro-PMU data. , 2017, , .		28
49	Data mining based on random forest model to predict the California ISO day-ahead market prices. , 2017, , .		13
50	Identification of destabilizing attacks in power systems. , 2017, , .		9
51	Autopsy on active distribution networks: A data-driven fault analysis using micro-PMU data. , 2017, , .		18
52	Sensitivity analysis of convergence bids in nodal electricity markets. , 2017, , .		3
53	A data-driven analysis of lightning-initiated contingencies at a distribution grid with a PV farm using Micro-PMU data. , 2017, , .		16
54	Location identification of distribution network events using synchrophasor data. , 2017, , .		21

#	ARTICLE	IF	CITATIONS
55	Location identification of high impedance faults using synchronized harmonic phasors. , 2017, , .		38
56	A data-driven analysis of supply bids in California ISO market: Price elasticity and impact of renewables. , 2017, , .		4
57	Power hardware-in-loop simulation of grid-connected battery systems with reactive power control capability. , 2017, , .		9
58	Strategic selection of capacity and mileage bids in California ISO performance-based regulation market. , 2016, , .		7
59	Distribution grid reliability analysis considering regulation down load resources via micro-PMU data. , 2016, , .		14
60	Battery-assisted distribution feeder peak load reduction: Stochastic optimization and utility-scale implementation. , 2016, , .		7
61	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
62	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
63	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
64	Proactive Demand Response for Data Centers: A Win-Win Solution. IEEE Transactions on Smart Grid, 2016, 7, 1584-1596.	9.0	85
65	A Convex Optimization Framework for Service Rate Allocation in Finite Communications Buffers. IEEE Communications Letters, 2016, 20, 69-72.	4.1	5
66	A Closer Look at Demand Bids in California ISO Energy Market. IEEE Transactions on Power Systems, 2016, 31, 3330-3331.	6.5	19
67	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
68	Detecting dynamic load altering attacks: A data-driven time-frequency analysis. , 2015, , .		14
69	Propagating Electricity Bill onto Cloud Tenants: Using a Novel Pricing Mechanism. , 2015, , .		4
70	Optimal demand bidding for time-shiftable loads. , 2015, , .		2
71	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
72	Dynamic load altering attacks in smart grid. , 2015, , .		46

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73	Extended-time demand bids: A new bidding framework to accommodate time-shiftable loads. , 2015, , .		6
74	Optimal Demand Bidding for Time-Shiftable Loads. IEEE Transactions on Power Systems, 2015, 30, 939-951.	6.5	101
75	Developing a Test Data Set for Electric Vehicle Applications in Smart Grid Research. , 2014, , .		24
76	Opportunities and challenges for data center demand response. , 2014, , .		126
77	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
78	Towards Building an Optimal Demand Response Framework for DC Distribution Networks. IEEE Transactions on Smart Grid, 2014, 5, 2626-2634.	9.0	62
79	Optimal risk-aware power procurement for data centers in day-ahead and real-time electricity markets. , 2014, , .		24
80	Real-Time Pricing for Demand Response Based on Stochastic Approximation. IEEE Transactions on Smart Grid, 2014, 5, 789-798.	9.0	106
81	Repeated Intersession Network Coding Games: Efficiency and Min-Max Bargaining Solution. IEEE/ACM Transactions on Networking, 2014, 22, 1121-1135.	3.8	3
82	PEV-based P-Q control in line distribution networks with high requirement for reactive power compensation. , 2014, , .		13
83	Propagating Electricity Bill onto Cloud Tenants: Using a Novel Pricing Mechanism. , 2014, , .		0
84	Achieving Optimality and Fairness in Autonomous Demand Response: Benchmarks and Billing Mechanisms. IEEE Transactions on Smart Grid, 2013, 4, 968-975.	9.0	142
85	False data injection attacks against nonlinear state estimation in smart power grids. , 2013, , .		100
86	Independent distributed generation planning to profit both utility and DG investors. IEEE Transactions on Power Systems, 2013, 28, 1170-1178.	6.5	73
87	Tackling the Load Uncertainty Challenges for Energy Consumption Scheduling in Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 1007-1016.	9.0	148
88	A stochastic programming framework for optimal storage bidding in energy and reserve markets. , 2013, , .		13
89	Autonomous demand response in heterogeneous smart grid topologies. , 2013, , .		3
90	Optimal industrial load control in smart grid: A case study for oil refineries. , 2013, , .		25

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91	Profit maximization and power management of green data centers supporting multiple slas. , 2013, , .		20
92	Tackling co-existence and fairness challenges in autonomous Demand Side Management. , 2012, , .		19
93	Utility-Optimal Random Access for Wireless Multimedia Networks. IEEE Wireless Communications Letters, 2012, 1, 340-343.	5.0	16
94	Optimal integration of renewable energy resources in data centers with behind-the-meter renewable generator. , 2012, , .		64
95	Data centers to offer ancillary services. , 2012, , .		50
96	PEV-based combined frequency and voltage regulation for smart grid. , 2012, , .		48
97	Advanced Demand Side Management for the Future Smart Grid Using Mechanism Design. IEEE Transactions on Smart Grid, 2012, 3, 1170-1180.	9.0	654
98	False data injection attacks with incomplete information against smart power grids. , 2012, , .		210
99	Wind power integration via aggregator-consumer coordination: A game theoretic approach. , 2012, , .		43
100	Challenges and opportunities in large-scale deployment of automated energy consumption scheduling systems in smart grids. , 2012, , .		6
101	PEV-based reactive power compensation for wind DG units: A stackelberg game approach. , 2012, , .		20
102	Vehicle-to-Aggregator Interaction Game. IEEE Transactions on Smart Grid, 2012, 3, 434-442.	9.0	352