Mohammad Hadi Amini

List of Publications by Year
in descending order

132 papers	4,039 citations	236925 25 h-index	149698 56 g-index
144 all docs	144 docs citations	144 times ranked	3594 citing authors

#	Article	IF	Citations
1	Simultaneous allocation of electric vehicles' parking lots and distributed renewable resources in smart power distribution networks. Sustainable Cities and Society, 2017, 28, 332-342.	10.4	280
2	ARIMA-based decoupled time series forecasting of electric vehicle charging demand for stochastic power system operation. Electric Power Systems Research, 2016, 140, 378-390.	3.6	255
3	A simultaneous approach for optimal allocation of renewable energy sources and electric vehicle charging stations in smart grids based on improved GA-PSO algorithm. Sustainable Cities and Society, 2017, 32, 627-637.	10.4	221
4	A Survey on Federated Learning for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2022, 9, 1-24.	8.7	215
5	Toward a Consensus on the Definition and Taxonomy of Power System Resilience. IEEE Access, 2018, 6, 32035-32053.	4.2	192
6	A novel multi-time-scale modeling for electric power demand forecasting: From short-term to medium-term horizon. Electric Power Systems Research, 2017, 142, 58-73.	3.6	187
7	Demand Response Program in Smart Grid Using Supply Function Bidding Mechanism. IEEE Transactions on Smart Grid, 2016, 7, 1277-1284.	9.0	171
8	Investigation of Economic and Environmental-Driven Demand Response Measures Incorporating UC. IEEE Transactions on Smart Grid, 2012, 3, 12-25.	9.0	152
9	Load management using multi-agent systems in smart distribution network. , 2013, , .		112
10	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. IEEE Transactions on Power Systems, 2018, 33, 4218-4227.	6.5	109
11	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. IEEE Transactions on Sustainable Energy, 2018, 9, 1783-1797.	8.8	104
12	A decentralized trading algorithm for an electricity market with generation uncertainty. Applied Energy, 2018, 218, 520-532.	10.1	98
13	Innovative appraisement of smart grid operation considering large-scale integration of electric vehicles enabling V2G and G2V systems. Electric Power Systems Research, 2018, 154, 245-256.	3.6	98
14	A Novel Cloud-Based Platform for Implementation of Oblivious Power Routing for Clusters of Microgrids. IEEE Access, 2017, 5, 607-619.	4.2	77
15	Optimal Operation of Interdependent Power Systems and Electrified Transportation Networks. Energies, 2018, 11, 196.	3.1	76
16	Allocation of electric vehicles' parking lots in distribution network. , 2014, , .		73
17	Weather-based interruption prediction in the smart grid utilizing chronological data. Journal of Modern Power Systems and Clean Energy, 2016, 4, 308-315.	5.4	64
18	What make consumer sign up to PHEVs? Predicting Malaysian consumer behavior in adoption of PHEVs. Transportation Research, Part A: Policy and Practice, 2018, 113, 259-278.	4.2	63

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19	Probabilistic Multiobjective Transmission Expansion Planning Incorporating Demand Response Resources and Large-Scale Distant Wind Farms. IEEE Systems Journal, 2017, 11, 1170-1181.	4.6	57
20	A market modeling review study on predicting Malaysian consumer behavior towards widespread adoption of PHEV/EV. Environmental Science and Pollution Research, 2017, 24, 17955-17975.	5.3	53
21	Distributed Holistic Framework for Smart City Infrastructures: Tale of Interdependent Electrified Transportation Network and Power Grid. IEEE Access, 2019, 7, 157535-157554.	4.2	50
22	Smart residential energy scheduling utilizing two stage Mixed Integer Linear Programming. , 2015, , .		48
23	Investigation of Market-Based Demand Response Impacts on Security-Constrained Preventive Maintenance Scheduling. IEEE Systems Journal, 2015, 9, 1496-1506.	4.6	45
24	ARIMA-based demand forecasting method considering probabilistic model of electric vehicles' parking lots. , 2015, , .		43
25	Reliability constrained congestion management with uncertain negawatt demand response firms considering repairable advanced metering infrastructures. Energy, 2016, 104, 213-228.	8.8	42
26	A comprehensive cloud-based real-time simulation framework for oblivious power routing in clusters of DC microgrids. , 2017, , .		40
27	Smart Grids: Security and Privacy Issues. , 2017, , .		33
28	Distributed Sensing Using Smart End-User Devices: Pathway to Federated Learning for Autonomous IoT. , 2019, , .		32
29	Allocation of demand response resources: toward an effective contribution to power system voltage stability. IET Generation, Transmission and Distribution, 2016, 10, 4169-4177.	2.5	29
30	Optimal allocation of <scp>EV</scp> charging spots along with capacitors in smart distribution network for congestion management. International Transactions on Electrical Energy Systems, 2020, 30, e12507.	1.9	29
31	Risk-Constrained Bidding Strategy for Demand Response, Green Energy Resources, and Plug-In Electric Vehicle in a Flexible Smart Grid. IEEE Systems Journal, 2021, 15, 338-345.	4.6	29
32	FedAR: Activity and Resource-Aware Federated Learning Model for Distributed Mobile Robots. , 2020, , .		28
33	A theoretical bilevel control scheme for power networks with large-scale penetration of distributed renewable resources. , 2016, , .		27
34	Modelling probabilistic transmission expansion planning in the presence of plugâ€in electric vehicles uncertainty by multiâ€state Markov model. IET Generation, Transmission and Distribution, 2017, 11, 1716-1725.	2.5	27
35	Probabilistic-possibilistic flexibility-based unit commitment with uncertain negawatt demand response resources considering Z-number method. International Journal of Electrical Power and Energy Systems, 2019, 113, 71-89.	5.5	27
36	Sustainable Smart Cities Through the Lens of Complex Interdependent Infrastructures: Panorama and State-of-the-art. Studies in Systems, Decision and Control, 2019, , 45-68.	1.0	27

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37	Probabilistic modelling of electric vehicles' parking lots charging demand. , 2013, , .		26
38	Distributed security constrained economic dispatch. , 2015, , .		26
39	Demand Response Resources' Allocation in Security-Constrained Preventive Maintenance Scheduling via MODM Method. IEEE Systems Journal, 2017, 11, 1196-1207.	4.6	26
40	Effect of electric vehicle parking lots' charging demand as dispatchable loads on power systems loss. , 2016, , .		25
41	Hopf Bifurcation Control of Power System Nonlinear Dynamics via a Dynamic State Feedback Controllerâ€"Part I: Theory and Modeling. IEEE Transactions on Power Systems, 2017, 32, 3217-3228.	6.5	25
42	Hierarchical Electric Vehicle Charging Aggregator Strategy Using Dantzig-Wolfe Decomposition. IEEE Design and Test, 2018, 35, 25-36.	1.2	25
43	A new flexible model for generation scheduling in a smart grid. Energy, 2020, 191, 116438.	8.8	25
44	Data analytics to evaluate the impact of infectious disease on economy: Case study of COVID-19 pandemic. Patterns, 2021, 2, 100315.	5.9	25
45	An economic dispatch algorithm for congestion management of smart power networks. Energy Systems, 2017, 8, 643-667.	3.0	21
46	Demand Response in Future Power Networks: Panorama and State-of-the-art. Studies in Systems, Decision and Control, 2019, , 167-191.	1.0	21
47	Federated Deep Learning for Heterogeneous Edge Computing. , 2021, , .		21
48	Overview of the Security and Privacy Issues in Smart Grids. , 2017, , 1-16.		20
49	A Bi-Layer Multi-Objective Techno-Economical Optimization Model for Optimal Integration of Distributed Energy Resources into Smart/Micro Grids. Energies, 2020, 13, 1706.	3.1	19
50	A Review on Impact Analysis of Electric Vehicle Charging on Power Distribution Systems. , 2020, , .		19
51	Smart Grid reliability assessment utilizing Boolean Driven Markov Process and variable weather conditions. , 2015, , .		18
52	Sensor Placement for Outage Identifiability in Power Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 1996-2013.	9.0	18
53	Decomposition Methods for Distributed Optimal Power Flow: Panorama and Case Studies of the DC Model. , 2018, , 137-155.		17
54	A Panorama of Interdependent Power Systems and Electrified Transportation Networks. Studies in Systems, Decision and Control, 2019, , 23-41.	1.0	16

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55	Hopf Bifurcation Control of Power Systems Nonlinear Dynamics Via a Dynamic State Feedback Controller—Part II: Performance Evaluation. IEEE Transactions on Power Systems, 2017, 32, 3229-3236.	6.5	15
56	Distributed Outage Detection in Power Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 5124-5137.	9.0	15
57	Multi-stage and resilience-based distribution network expansion planning against hurricanes based on vulnerability and resiliency metrics. International Journal of Electrical Power and Energy Systems, 2022, 136, 107640.	5.5	15
58	Optimal Sensor Placement for Topology Identification in Smart Power Grids. , 2019, , .		14
59	Evolutionary Computation, Optimization, and Learning Algorithms for Data Science. Advances in Intelligent Systems and Computing, 2020, , 37-65.	0.6	14
60	Optimal Reliability-based Placement of Plug-In Electric Vehicles in Smart Distribution Network. International Journal of Energy Science, 2014, 4, 43.	0.6	14
61	Probabilistic—possibilistic model for a parking lot in the smart distribution network expansion planning. IET Generation, Transmission and Distribution, 2018, 12, 3363-3374.	2.5	13
62	Key pre-distribution scheme with join leave support for SCADA systems. International Journal of Critical Infrastructure Protection, 2019, 24, 111-125.	4.6	13
63	The Impacts of a Decision Making Framework on Distribution Network Reconfiguration. IEEE Transactions on Sustainable Energy, 2021, 12, 634-645.	8.8	13
64	Protection of large-scale smart grids against false data injection cyberattacks leading to blackouts. International Journal of Critical Infrastructure Protection, 2021, 35, 100457.	4.6	13
65	Determination of the minimum-variance unbiased estimator for DC power-flow estimation. , 2014, , .		12
66	LVRT capability assessment of FSIG-based wind turbine utilizing UPQC and SFCL. , 2014, , .		11
67	FedPARL: Client Activity and Resource-Oriented Lightweight Federated Learning Model for Resource-Constrained Heterogeneous IoT Environment. Frontiers in Communications and Networks, 2021, 2, .	3.0	11
68	Interdependent Networks: A Data Science Perspective. Patterns, 2020, 1, 100003.	5.9	10
69	FedResilience: A Federated Learning Application to Improve Resilience of Resource-Constrained Critical Infrastructures. Electronics (Switzerland), 2021, 10, 1917.	3.1	10
70	Applications of Nature-Inspired Algorithms for Dimension Reduction: Enabling Efficient Data Analytics. Advances in Intelligent Systems and Computing, 2020, , 67-84.	0.6	10
71	Leveraging Decentralized Artificial Intelligence to Enhance Resilience of Energy Networks. , 2020, , .		10
72	Leveraging asynchronous federated learning to predict customers financial distress. Intelligent Systems With Applications, 2022, 14, 200064.	3.0	10

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73	Centralized load shedding based on thermal limit of transmission lines against cascading events. , 2017, , .		9
74	A Panorama of Future Interdependent Networks: From Intelligent Infrastructures to Smart Cities. Studies in Systems, Decision and Control, 2018, , 1-10.	1.0	9
75	Optimal Attack Strategy for Multi-Transmission Line Congestion in Cyber-Physical Smart Grids. , 2019, , .		9
76	Reliability in Smart Grids. , 2017, , 19-29.		9
77	Promises of Meta-Learning for Device-Free Human Sensing. , 2019, , .		9
78	Sparsity-based error detection in DC power flow state estimation. , 2016, , .		8
79	Forecasting the PEV owner reaction to the electricity price based on the customer acceptance index. , 2013, , .		7
80	Probabilistic–proactive distribution network scheduling against a hurricane as a high impact–low probability event considering chaos theory. IET Generation, Transmission and Distribution, 2021, 15, 194-213.	2.5	7
81	High Impedance DC Fault Detection and Localization in HVDC Transmission Lines Using Harmonic Analysis. , 2018, , .		6
82	An Introduction to Advanced Machine Learning: Meta-Learning Algorithms, Applications, and Promises. Advances in Intelligent Systems and Computing, 2020, , 129-144.	0.6	6
83	DRDr II: Detecting the Severity Level of Diabetic Retinopathy Using Mask RCNN and Transfer Learning. , 2020, , .		6
84	Distributed Machine Learning for Resilient Operation of Electric Systems. , 2020, , .		5
85	Promises of Fully Distributed Optimization for IoT-Based Smart City Infrastructures. Advances in Intelligent Systems and Computing, 2020, , 15-35.	0.6	5
86	DC power flow estimation utilizing bayesian-based LMMSE estimator. , 2015, , .		4
87	Application of cloud computing in power routing for clusters of microgrids using oblivious network routing algorithm. , 2017, , .		4
88	Decentralized operation of interdependent power and energy networks: Blockchain and security. , 2020, , 61-73.		4
89	Evolutionary Algorithms and Efficient Data Analytics for Image Processing. , 2021, , .		4
90	Malware detection using artificial bee colony algorithm. , 2020, , .		4

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91	Data-driven inferences of agency-level risk and response communication on COVID-19 through social media-based interactions. Journal of Emergency Management, 2021, 19, 59-82.	0.3	4
92	Bi-level Adversary-Operator Cyberattack Framework and Algorithms for Transmission Networks in Smart Grids. Advances in Intelligent Systems and Computing, 2020, , 183-202.	0.6	4
93	Cascaded Solid State Transformer Structure to Power Fast EV Charging Stations from Medium Voltage Transmission Lines. , 2020, , .		4
94	A2BCF: An Automated ABC-Based Feature Selection Algorithm for Classification Models in an Education Application. Applied Sciences (Switzerland), 2022, 12, 3553.	2.5	4
95	An Oblivious Routing-Based Power Flow Calculation Method for Loss Minimization of Smart Power Networks: A Theoretical Perspective. , 2016, , .		3
96	A Hierarchical Approach Based on the Frankâ€"Wolfe Algorithm and Dantzigâ€"Wolfe Decomposition for Solving Large Economic Dispatch Problems in Smart Grids. , 2019, , 41-56.		3
97	On Parameter Tuning in Meta-Learning for Computer Vision. , 2019, , .		3
98	PLUG-IN ELECTRIC VEHICLE OWNER BEHAVIOUR STUDY USING FUZZY SYSTEMS. International Journal of Power and Energy Systems, 2015, 35, .	0.2	3
99	OptABC: an Optimal Hyperparameter Tuning Approach for Machine Learning Algorithms. , 2021, , .		3
100	RTDS Demonstration of Harmonic Amplification in Under Sea/Ground Cables of Offshore Wind Farms. , 2018, , .		2
101	A Survey of Recent Developments and Requirements for Modern Power System Control. , 2019, , 289-316.		2
102	Toward Smart Contract and Consensus Mechanisms of Blockchain. SpringerBriefs in Computer Science, 2021, , 15-28.	0.2	2
103	Human Motion Recognition Using Zero-Shot Learning. Transactions on Computational Science and Computational Intelligence, 2021, , 171-181.	0.3	2
104	Topological Data Analysis for Network Resilience Quantification. SN Operations Research Forum, 2021, 2, 1.	1.0	2
105	Optimal SVC Allocation in Power Systems for Loss Minimization and Voltage Deviation Reduction. Studies in Systems, Decision and Control, 2018, , 221-232.	1.0	1
106	Distributed Intelligent Algorithm for Interdependent Electrified Transportation and Power Networks. , 2019, , .		1
107	Blockchain Interoperability from the Perspective of Interdependent Networks. SpringerBriefs in Computer Science, 2021, , 29-38.	0.2	1
108	Introduction to Blockchain Technology. SpringerBriefs in Computer Science, 2021, , 3-13.	0.2	1

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109	Bad Data Detection. , 2017, , 53-68.		1
110	Decentralization of Data-source Using Blockchain-Based Brooks–Iyengar Fusion. , 2020, , 137-157.		1
111	Fundamentals of Brooks–Iyengar Distributed Sensing Algorithm. , 2020, , .		1
112	Exploiting Federated Learning Technique to Recognize Human Activities in Resource-Constrained Environment. Lecture Notes in Computer Science, 2022, , 659-672.	1.3	1
113	DeepCOVIDNet: Deep Convolutional Neural Network for COVID-19 Detection from Chest Radiographic Images. , 2021, 2021, 1703-1710.		1
114	Best practices for online marketing in Twitter: An experimental study. , 2016, , .		0
115	Leveraging Blockchain Technology for Artificial Intelligence. SpringerBriefs in Computer Science, 2021, , 51-58.	0.2	0
116	Coupling Blockchain with Emerging Real-Life Applications. SpringerBriefs in Computer Science, 2021, , 59-69.	0.2	0
117	Preclinical Western Blot in the Era of Digital Transformation and Reproducible Research, an Eastern Perspective. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 490-499.	3.6	0
118	Blockchain Applicability in Internet-of-Things (IoT) Environment. SpringerBriefs in Computer Science, 2021, , 41-50.	0.2	0
119	A Multi-layer Physic-based Model for Electric Vehicle Energy Demand Estimation in Interdependent Transportation Networks and Power Systems. Springer Optimization and Its Applications, 2019, , 243-253.	0.9	0
120	Introduction to Algorithms for Wireless Sensor Networks. , 2020, , 19-41.		0
121	Designing a Deep-Learning Neural Network Chip to Detect Hardware Errors Using Brooks–Iyengar Algorithm. , 2020, , 167-174.		0
122	Panorama of Optimization, Control, and Learning Algorithms for Interdependent SWEET (Societal,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Computing, 2020, , 1-11.	0.6	0
123	Introduction to Sensor Networks. , 2020, , 3-17.		0
124	Theoretical Analysis of Brooks–Iyengar Algorithm: Accuracy and Precision Bound. , 2020, , 79-107.		0
125	The Profound Impact of the Brooks–Iyengar Algorithm. , 2020, , 109-124.		0
126	Fault Tolerant Distributed Sensor Networks. , 2020, , 43-76.		0

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127	A Novel Fault Tolerant Random Forest Model Using Brooksâ€"Iyengar Fusion. , 2020, , 159-165.		0
128	Ubiquitous Brooksâ€"Iyengarâ€™s Robust Distributed Real-Time Sensing Algorithm: Past, Present, and Future. , 2020, , 175-184.		0
129	Robust Fault Tolerant Rail Door State Monitoring Systems. , 2020, , 127-133.		0
130	CPD 2020. , 2020, , .		0
131	Distributed Network Optimization for Secure Operation of Interdependent Complex Networks. , 2021, , .		0
132	On the Impact of the Embedding Process on Network Resilience Quantification. , 2021, , .		0