

# Mohammad Hadi Amini

## List of Publications by Year in descending order

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132  
papers

4,039  
citations

270111

25  
h-index

169272

56  
g-index

144  
all docs

144  
docs citations

144  
times ranked

4143  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Federated Learning for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2022, 9, 1-24.	5.5	215
2	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.	3.3	15
3	Leveraging asynchronous federated learning to predict customers financial distress. Intelligent Systems With Applications, 2022, 14, 200064.	1.9	10
4	Exploiting Federated Learning Technique to Recognize Human Activities in Resource-Constrained Environment. Lecture Notes in Computer Science, 2022, , 659-672.	1.0	1
5	A2BCF: An Automated ABC-Based Feature Selection Algorithm for Classification Models in an Education Application. Applied Sciences (Switzerland), 2022, 12, 3553.	1.3	4
6	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.	2.9	29
7	The Impacts of a Decision Making Framework on Distribution Network Reconfiguration. IEEE Transactions on Sustainable Energy, 2021, 12, 634-645.	5.9	13
8	Leveraging Blockchain Technology for Artificial Intelligence. SpringerBriefs in Computer Science, 2021, , 51-58.	0.2	0
9	Blockchain Interoperability from the Perspective of Interdependent Networks. SpringerBriefs in Computer Science, 2021, , 29-38.	0.2	1
10	Coupling Blockchain with Emerging Real-Life Applications. SpringerBriefs in Computer Science, 2021, , 59-69.	0.2	0
11	Introduction to Blockchain Technology. SpringerBriefs in Computer Science, 2021, , 3-13.	0.2	1
12	Evolutionary Algorithms and Efficient Data Analytics for Image Processing. , 2021, , .		4
13	FedPARL: Client Activity and Resource-Oriented Lightweight Federated Learning Model for Resource-Constrained Heterogeneous IoT Environment. Frontiers in Communications and Networks, 2021, 2, .	1.9	11
14	Preclinical Western Blot in the Era of Digital Transformation and Reproducible Research, an Eastern Perspective. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 490-499.	2.2	0
15	FedResilience: A Federated Learning Application to Improve Resilience of Resource-Constrained Critical Infrastructures. Electronics (Switzerland), 2021, 10, 1917.	1.8	10
16	Data analytics to evaluate the impact of infectious disease on economy: Case study of COVID-19 pandemic. Patterns, 2021, 2, 100315.	3.1	25
17	Protection of large-scale smart grids against false data injection cyberattacks leading to blackouts. International Journal of Critical Infrastructure Protection, 2021, 35, 100457.	2.9	13
18	Toward Smart Contract and Consensus Mechanisms of Blockchain. SpringerBriefs in Computer Science, 2021, , 15-28.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Blockchain Applicability in Internet-of-Things (IoT) Environment. SpringerBriefs in Computer Science, 2021, , 41-50.	0.2	0
20	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.	1.4	7
21	Human Motion Recognition Using Zero-Shot Learning. Transactions on Computational Science and Computational Intelligence, 2021, , 171-181.	0.3	2
22	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.	0.2	4
23	Topological Data Analysis for Network Resilience Quantification. SN Operations Research Forum, 2021, 2, 1.	0.6	2
24	Federated Deep Learning for Heterogeneous Edge Computing. , 2021, , .		21
25	DeepCOVIDNet: Deep Convolutional Neural Network for COVID-19 Detection from Chest Radiographic Images. , 2021, 2021, 1703-1710.		1
26	OptABC: an Optimal Hyperparameter Tuning Approach for Machine Learning Algorithms. , 2021, , .		3
27	Distributed Network Optimization for Secure Operation of Interdependent Complex Networks. , 2021, , .		0
28	On the Impact of the Embedding Process on Network Resilience Quantification. , 2021, , .		0
29	Sensor Placement for Outage Identifiability in Power Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 1996-2013.	6.2	18
30	A new flexible model for generation scheduling in a smart grid. Energy, 2020, 191, 116438.	4.5	25
31	Distributed Machine Learning for Resilient Operation of Electric Systems. , 2020, , .		5
32	Decentralized operation of interdependent power and energy networks: Blockchain and security. , 2020, , 61-73.		4
33	A Bi-Layer Multi-Objective Techno-Economical Optimization Model for Optimal Integration of Distributed Energy Resources into Smart/Micro Grids. Energies, 2020, 13, 1706.	1.6	19
34	Optimal allocation of <sc>EV</sc> charging spots along with capacitors in smart distribution network for congestion management. International Transactions on Electrical Energy Systems, 2020, 30, e12507.	1.2	29
35	Distributed Outage Detection in Power Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 5124-5137.	6.2	15
36	Interdependent Networks: A Data Science Perspective. Patterns, 2020, 1, 100003.	3.1	10

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37	Promises of Fully Distributed Optimization for IoT-Based Smart City Infrastructures. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 15-35.	0.5	5
38	Evolutionary Computation, Optimization, and Learning Algorithms for Data Science. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 37-65.	0.5	14
39	Applications of Nature-Inspired Algorithms for Dimension Reduction: Enabling Efficient Data Analytics. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 67-84.	0.5	10
40	An Introduction to Advanced Machine Learning: Meta-Learning Algorithms, Applications, and Promises. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 129-144.	0.5	6
41	DRDr II: Detecting the Severity Level of Diabetic Retinopathy Using Mask RCNN and Transfer Learning. , 2020, , .		6
42	A Review on Impact Analysis of Electric Vehicle Charging on Power Distribution Systems. , 2020, , .		19
43	Introduction to Algorithms for Wireless Sensor Networks. , 2020, , 19-41.		0
44	Designing a Deep-Learning Neural Network Chip to Detect Hardware Errors Using Brooksâ€™lyengar Algorithm. , 2020, , 167-174.		0
45	Leveraging Decentralized Artificial Intelligence to Enhance Resilience of Energy Networks. , 2020, , .		10
46	Malware detection using artificial bee colony algorithm. , 2020, , .		4
47	Bi-level Adversary-Operator Cyberattack Framework and Algorithms for Transmission Networks in Smart Grids. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 183-202.	0.5	4
48	Panorama of Optimization, Control, and Learning Algorithms for Interdependent SWEET (Societal,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Computing, 2020, , 1-11.	0.5	0
49	Introduction to Sensor Networks. , 2020, , 3-17.		0
50	Theoretical Analysis of Brooksâ€™lyengar Algorithm: Accuracy and Precision Bound. , 2020, , 79-107.		0
51	FedAR: Activity and Resource-Aware Federated Learning Model for Distributed Mobile Robots. , 2020, , .		28
52	The Profound Impact of the Brooksâ€™lyengar Algorithm. , 2020, , 109-124.		0
53	Decentralization of Data-source Using Blockchain-Based Brooksâ€™lyengar Fusion. , 2020, , 137-157.		1
54	Fault Tolerant Distributed Sensor Networks. , 2020, , 43-76.		0

#	ARTICLE	IF	CITATIONS
55	A Novel Fault Tolerant Random Forest Model Using Brooksâ€™lyengar Fusion. , 2020, , 159-165.		0
56	Ubiquitous Brooksâ€™lyengarâ€™s Robust Distributed Real-Time Sensing Algorithm: Past, Present, and Future. , 2020, , 175-184.		0
57	Fundamentals of Brooksâ€™lyengar Distributed Sensing Algorithm. , 2020, , .		1
58	Robust Fault Tolerant Rail Door State Monitoring Systems. , 2020, , 127-133.		0
59	CPD 2020. , 2020, , .		0
60	Cascaded Solid State Transformer Structure to Power Fast EV Charging Stations from Medium Voltage Transmission Lines. , 2020, , .		4
61	Optimal Sensor Placement for Topology Identification in Smart Power Grids. , 2019, , .		14
62	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
63	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.	3.3	27
64	A Survey of Recent Developments and Requirements for Modern Power System Control. , 2019, , 289-316.		2
65	On Parameter Tuning in Meta-Learning for Computer Vision. , 2019, , .		3
66	Optimal Attack Strategy for Multi-Transmission Line Congestion in Cyber-Physical Smart Grids. , 2019, , .		9
67	Distributed Sensing Using Smart End-User Devices: Pathway to Federated Learning for Autonomous IoT. , 2019, , .		32
68	Distributed Holistic Framework for Smart City Infrastructures: Tale of Interdependent Electrified Transportation Network and Power Grid. IEEE Access, 2019, 7, 157535-157554.	2.6	50
69	Distributed Intelligent Algorithm for Interdependent Electrified Transportation and Power Networks. , 2019, , .		1
70	Key pre-distribution scheme with join leave support for SCADA systems. International Journal of Critical Infrastructure Protection, 2019, 24, 111-125.	2.9	13
71	Demand Response in Future Power Networks: Panorama and State-of-the-art. Studies in Systems, Decision and Control, 2019, , 167-191.	0.8	21
72	A Panorama of Interdependent Power Systems and Electrified Transportation Networks. Studies in Systems, Decision and Control, 2019, , 23-41.	0.8	16

#	ARTICLE	IF	CITATIONS
73	Sustainable Smart Cities Through the Lens of Complex Interdependent Infrastructures: Panorama and State-of-the-art. <i>Studies in Systems, Decision and Control</i> , 2019, , 45-68.	0.8	27
74	A Multi-layer Physic-based Model for Electric Vehicle Energy Demand Estimation in Interdependent Transportation Networks and Power Systems. <i>Springer Optimization and Its Applications</i> , 2019, , 243-253.	0.6	0
75	Promises of Meta-Learning for Device-Free Human Sensing. , 2019, , .		9
76	A Panorama of Future Interdependent Networks: From Intelligent Infrastructures to Smart Cities. <i>Studies in Systems, Decision and Control</i> , 2018, , 1-10.	0.8	9
77	Optimal SVC Allocation in Power Systems for Loss Minimization and Voltage Deviation Reduction. <i>Studies in Systems, Decision and Control</i> , 2018, , 221-232.	0.8	1
78	Hierarchical Electric Vehicle Charging Aggregator Strategy Using Dantzig-Wolfe Decomposition. <i>IEEE Design and Test</i> , 2018, 35, 25-36.	1.1	25
79	What make consumer sign up to PHEVs? Predicting Malaysian consumer behavior in adoption of PHEVs. <i>Transportation Research, Part A: Policy and Practice</i> , 2018, 113, 259-278.	2.0	63
80	A decentralized trading algorithm for an electricity market with generation uncertainty. <i>Applied Energy</i> , 2018, 218, 520-532.	5.1	98
81	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 1783-1797.	5.9	104
82	Innovative appraisal of smart grid operation considering large-scale integration of electric vehicles enabling V2G and G2V systems. <i>Electric Power Systems Research</i> , 2018, 154, 245-256.	2.1	98
83	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4218-4227.	4.6	109
84	RTDS Demonstration of Harmonic Amplification in Under Sea/Ground Cables of Offshore Wind Farms. , 2018, , .		2
85	High Impedance DC Fault Detection and Localization in HVDC Transmission Lines Using Harmonic Analysis. , 2018, , .		6
86	Optimal Operation of Interdependent Power Systems and Electrified Transportation Networks. <i>Energies</i> , 2018, 11, 196.	1.6	76
87	Decomposition Methods for Distributed Optimal Power Flow: Panorama and Case Studies of the DC Model. , 2018, , 137-155.		17
88	Toward a Consensus on the Definition and Taxonomy of Power System Resilience. <i>IEEE Access</i> , 2018, 6, 32035-32053.	2.6	192
89	Probabilisticâ€“possibilistic model for a parking lot in the smart distribution network expansion planning. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 3363-3374.	1.4	13
90	Probabilistic Multiobjective Transmission Expansion Planning Incorporating Demand Response Resources and Large-Scale Distant Wind Farms. <i>IEEE Systems Journal</i> , 2017, 11, 1170-1181.	2.9	57

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91	Demand Response Resources' Allocation in Security-Constrained Preventive Maintenance Scheduling via MODM Method. IEEE Systems Journal, 2017, 11, 1196-1207.	2.9	26
92	A Novel Cloud-Based Platform for Implementation of Oblivious Power Routing for Clusters of Microgrids. IEEE Access, 2017, 5, 607-619.	2.6	77
93	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.	4.6	15
94	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.	5.1	221
95	Modelling probabilistic transmission expansion planning in the presence of plug-in electric vehicles uncertainty by multi-state Markov model. IET Generation, Transmission and Distribution, 2017, 11, 1716-1725.	1.4	27
96	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.	2.7	53
97	Hopf Bifurcation Control of Power System Nonlinear Dynamics via a Dynamic State Feedback Controller—Part I: Theory and Modeling. IEEE Transactions on Power Systems, 2017, 32, 3217-3228.	4.6	25
98	A comprehensive cloud-based real-time simulation framework for oblivious power routing in clusters of DC microgrids. , 2017, , .		40
99	An economic dispatch algorithm for congestion management of smart power networks. Energy Systems, 2017, 8, 643-667.	1.8	21
100	Simultaneous allocation of electric vehicles' parking lots and distributed renewable resources in smart power distribution networks. Sustainable Cities and Society, 2017, 28, 332-342.	5.1	280
101	Smart Grids: Security and Privacy Issues. , 2017, , .		33
102	Overview of the Security and Privacy Issues in Smart Grids. , 2017, , 1-16.		20
103	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.	2.1	187
104	Centralized load shedding based on thermal limit of transmission lines against cascading events. , 2017, , .		9
105	Application of cloud computing in power routing for clusters of microgrids using oblivious network routing algorithm. , 2017, , .		4
106	Reliability in Smart Grids. , 2017, , 19-29.		9
107	Bad Data Detection. , 2017, , 53-68.		1
108	An Oblivious Routing-Based Power Flow Calculation Method for Loss Minimization of Smart Power Networks: A Theoretical Perspective. , 2016, , .		3

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109	Reliability constrained congestion management with uncertain negawatt demand response firms considering repairable advanced metering infrastructures. <i>Energy</i> , 2016, 104, 213-228.	4.5	42
110	Best practices for online marketing in Twitter: An experimental study. , 2016, , .		0
111	Sparsity-based error detection in DC power flow state estimation. , 2016, , .		8
112	A theoretical bilevel control scheme for power networks with large-scale penetration of distributed renewable resources. , 2016, , .		27
113	Allocation of demand response resources: toward an effective contribution to power system voltage stability. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 4169-4177.	1.4	29
114	Effect of electric vehicle parking lots' charging demand as dispatchable loads on power systems loss. , 2016, , .		25
115	ARIMA-based decoupled time series forecasting of electric vehicle charging demand for stochastic power system operation. <i>Electric Power Systems Research</i> , 2016, 140, 378-390.	2.1	255
116	Demand Response Program in Smart Grid Using Supply Function Bidding Mechanism. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 1277-1284.	6.2	171
117	Weather-based interruption prediction in the smart grid utilizing chronological data. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016, 4, 308-315.	3.3	64
118	Smart Grid reliability assessment utilizing Boolean Driven Markov Process and variable weather conditions. , 2015, , .		18
119	Distributed security constrained economic dispatch. , 2015, , .		26
120	Smart residential energy scheduling utilizing two stage Mixed Integer Linear Programming. , 2015, , .		48
121	DC power flow estimation utilizing bayesian-based LMMSE estimator. , 2015, , .		4
122	ARIMA-based demand forecasting method considering probabilistic model of electric vehicles' parking lots. , 2015, , .		43
123	Investigation of Market-Based Demand Response Impacts on Security-Constrained Preventive Maintenance Scheduling. <i>IEEE Systems Journal</i> , 2015, 9, 1496-1506.	2.9	45
124	PLUG-IN ELECTRIC VEHICLE OWNER BEHAVIOUR STUDY USING FUZZY SYSTEMS. <i>International Journal of Power and Energy Systems</i> , 2015, 35, .	0.2	3
125	LVRT capability assessment of FSIG-based wind turbine utilizing UIPQC and SFCL. , 2014, , .		11
126	Determination of the minimum-variance unbiased estimator for DC power-flow estimation. , 2014, , .		12



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127	Allocation of electric vehicles' parking lots in distribution network. , 2014, , .		73
128	Optimal Reliability-based Placement of Plug-In Electric Vehicles in Smart Distribution Network. International Journal of Energy Science, 2014, 4, 43.	0.6	14
129	Load management using multi-agent systems in smart distribution network. , 2013, , .		112
130	Forecasting the PEV owner reaction to the electricity price based on the customer acceptance index. , 2013, , .		7
131	Probabilistic modelling of electric vehicles' parking lots charging demand. , 2013, , .		26
132	Investigation of Economic and Environmental-Driven Demand Response Measures Incorporating UC. IEEE Transactions on Smart Grid, 2012, 3, 12-25.	6.2	152