

# Amin Kargarian Marvasti

## List of Publications by Year in descending order

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64  
papers

2,120  
citations

304743

22  
h-index

289244

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g-index

64  
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64  
docs citations

64  
times ranked

1971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power Grid Resilience Enhancement via Protecting Electrical Substations Against Flood Hazards: A Stochastic Framework. IEEE Transactions on Industrial Informatics, 2022, 18, 2132-2143.	11.3	30
2	Learning-Aided Asynchronous ADMM for Optimal Power Flow. IEEE Transactions on Power Systems, 2022, 37, 1671-1681.	6.5	5
3	Topology-Aware Learning Assisted Branch and Ramp Constraints Screening for Dynamic Economic Dispatch. IEEE Transactions on Power Systems, 2022, 37, 3495-3505.	6.5	5
4	Hybrid Quantum-Classical Unit Commitment. , 2022, , .		5
5	Data-Driven Nonparametric Joint Chance Constraints for Economic Dispatch with Renewable Generation. IEEE Transactions on Industry Applications, 2021, 57, 6537-6546.	4.9	11
6	Multiclass Learning-Aided Temporal Decomposition and Distributed Optimization for Power Systems. IEEE Transactions on Power Systems, 2021, 36, 4941-4952.	6.5	5
7	Hybrid Learning Aided Inactive Constraints Filtering Algorithm to Enhance AC OPF Solution Time. IEEE Transactions on Industry Applications, 2021, 57, 1325-1334.	4.9	24
8	Momentum extrapolation prediction-based asynchronous distributed optimization for power systems. Electric Power Systems Research, 2021, 196, 107193.	3.6	3
9	Nonparametric preventive/corrective voltage stability enhancement of active distribution systems with integrated electric vehicles charging facilities. International Journal of Electrical Power and Energy Systems, 2021, 129, 106813.	5.5	5
10	Data-Driven Nonparametric Chance-Constrained Optimization for Microgrid Energy Management. IEEE Transactions on Industrial Informatics, 2020, 16, 2447-2457.	11.3	30
11	Temporal Decomposition for Security-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2020, 35, 1834-1845.	6.5	20
12	Graph-Based Second-Order Cone Programming Model for Resilient Feeder Routing Using GIS Data. IEEE Transactions on Power Delivery, 2020, 35, 1999-2010.	4.3	20
13	Risk-based dynamic generation and transmission expansion planning with propagating effects of contingencies. International Journal of Electrical Power and Energy Systems, 2020, 118, 105762.	5.5	23
14	Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. IEEE Transactions on Smart Grid, 2020, 11, 4544-4554.	9.0	19
15	A Survey on Applications of Machine Learning for Optimal Power Flow. , 2020, , .		26
16	Partitioning Analysis in Temporal Decomposition for Security-Constrained Economic Dispatch. , 2020, , .		1
17	Accelerated and Robust Analytical Target Cascading for Distributed Optimal Power Flow. IEEE Transactions on Industrial Informatics, 2020, 16, 7521-7531.	11.3	17
18	Security-constrained transmission expansion planning using linear sensitivity factors. IET Generation, Transmission and Distribution, 2020, 14, 200-210.	2.5	16

#	ARTICLE	IF	CITATIONS
19	Combined Learning and Analytical Model Based Early Warning Algorithm for Real-Time Congestion Management. , 2020, , .		4
20	Multi-agent microgrid energy management based on deep learning forecaster. Energy, 2019, 186, 115873.	8.8	83
21	Probabilistic deep neural network price forecasting based on residential load and wind speed predictions. IET Renewable Power Generation, 2019, 13, 1840-1848.	3.1	33
22	Distributed optimisation-based collaborative security-constrained transmission expansion planning for multi-regional systems. IET Generation, Transmission and Distribution, 2019, 13, 2819-2827.	2.5	14
23	Chance-Constrained Microgrid Energy Management with Flexibility Constraints Provided by Battery Storage. , 2019, , .		10
24	Non-Parametric Joint Chance Constraints for Economic Dispatch Problem with Solar Generation. , 2019, , .		4
25	Distributed Optimization-Based Hourly Coordination for V2G and G2V. , 2019, , .		8
26	Time decomposition strategy for security-constrained economic dispatch. IET Generation, Transmission and Distribution, 2019, 13, 5129-5138.	2.5	7
27	A System of Systems Engineering Framework for Modern Power System Operation. Studies in Systems, Decision and Control, 2019, , 217-247.	1.0	9
28	Diagonal Quadratic Approximation for Decentralized Collaborative TSO+DSO Optimal Power Flow. IEEE Transactions on Smart Grid, 2019, 10, 2358-2370.	9.0	118
29	Nonparametric Probabilistic Unbalanced Power Flow With Adaptive Kernel Density Estimator. IEEE Transactions on Smart Grid, 2019, 10, 3292-3300.	9.0	27
30	Decentralized Implementation of Unit Commitment With Analytical Target Cascading: A Parallel Approach. IEEE Transactions on Power Systems, 2018, 33, 3981-3993.	6.5	45
31	Partition-based bus renumbering effect on interior point-based OPF solution. , 2018, , .		2
32	Toward Distributed/Decentralized DC Optimal Power Flow Implementation in Future Electric Power Systems. IEEE Transactions on Smart Grid, 2018, 9, 2574-2594.	9.0	204
33	Nonparametric Probabilistic Load Flow With Saddle Point Approximation. IEEE Transactions on Smart Grid, 2018, 9, 4796-4804.	9.0	17
34	Loss of Load Probability of Power Systems Considering the High PHEV Penetration Rates. , 2018, , .		2
35	A Time Decomposition and Coordination Strategy for Power System Multi-Interval Operation. , 2018, , .		13
36	Utility Benefits of Using the Time Frame Capacity Factor Reliability Model. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Power demand risk models on milling machines. Journal of Cleaner Production, 2017, 165, 1215-1228.	9.3	7
38	Modeling a microgrid as a single source using the timeframe capacity factor reliability model. , 2017, , .		1
39	Islanding detection method for microgrid based on extracted features from differential transient rate of change of frequency. IET Generation, Transmission and Distribution, 2017, 11, 891-904.	2.5	55
40	A global algorithm for AC optimal power flow based on successive linear conic optimization. , 2017, , .		2
41	Distributed transmission expansion planning in multi-area electric power systems. , 2016, , .		2
42	Search space reduction strategies for unit commitment problem. , 2016, , .		1
43	A Multi-Time Scale Co-Optimization Method for Sizing of Energy Storage and Fast-Ramping Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 1351-1361.	8.8	56
44	Comprehensive power transfer distribution factor model for large-scale transmission expansion planning. IET Generation, Transmission and Distribution, 2016, 10, 2981-2989.	2.5	20
45	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
46	Optimal sizing of energy storage systems: a combination of hourly and intra-hour time perspectives. IET Generation, Transmission and Distribution, 2016, 10, 594-600.	2.5	39
47	Parzen Window Density Estimator-Based Probabilistic Power Flow With Correlated Uncertainties. IEEE Transactions on Sustainable Energy, 2016, 7, 1170-1181.	8.8	49
48	Chance-Constrained System of Systems Based Operation of Power Systems. IEEE Transactions on Power Systems, 2016, 31, 3404-3413.	6.5	50
49	Distributed security-constrained unit commitment for large-scale power systems. , 2015, , .		2
50	Power system reliability enhancement considering smart monitoring. , 2015, , .		3
51	Multi-microgrid energy systems operation incorporating distribution-interline power flow controller. Electric Power Systems Research, 2015, 129, 208-216.	3.6	42
52	Distributed Security-Constrained Unit Commitment for Large-Scale Power Systems. IEEE Transactions on Power Systems, 2015, 30, 1925-1936.	6.5	116
53	A system of systems engineering approach for unit commitment in multi-area power markets. , 2014, , .		11
54	Optimal Operation of Active Distribution Grids: A System of Systems Framework. IEEE Transactions on Smart Grid, 2014, 5, 1228-1237.	9.0	211

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55	Multi-stage Stochastic Optimal Operation of Energy-efficient Building with Combined Heat and Power System. Electric Power Components and Systems, 2014, 42, 327-338.	1.8	26
56	System of Systems Based Security-Constrained Unit Commitment Incorporating Active Distribution Grids. IEEE Transactions on Power Systems, 2014, 29, 2489-2498.	6.5	154
57	Spider area-based multi-objective stochastic energy and ancillary services dispatch. , 2014, , .		2
58	Optimal operation of distribution grids: A system of systems framework. , 2013, , .		11
59	A Stochastic Hybrid Method to Forecast Operating Reserve: Comparison of Fuzzy and Classical Set Theory. Electric Power Components and Systems, 2013, 41, 806-823.	1.8	4
60	Timeframe capacity factor reliability model for isolated microgrids with renewable energy resources. , 2012, , .		14
61	Multiobjective optimal power flow algorithm to enhance multi-microgrids performance incorporating IPFC. , 2012, , .		19
62	Power flow calculation of hybrid AC/DC power systems. , 2012, , .		10
63	Stochastic active and reactive power dispatch in electricity markets with wind power volatility. , 2012, , .		10
64	Probabilistic reactive power procurement in hybrid electricity markets with uncertain loads. Electric Power Systems Research, 2012, 82, 68-80.	3.6	83