

# Prakash Ranganathan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54  
papers

408  
citations

13  
h-index

19  
g-index

77  
ext. papers

641  
ext. citations

1.5  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
54	Computational and numerical analysis of AC optimal power flow formulations on large-scale power grids. <i>Electric Power Systems Research</i> , <b>2022</b> , 202, 107594	3.5	1
53	Performance Analysis of Short and Mid-Term Wind Power Prediction using ARIMA and Hybrid Models <b>2021</b> ,		2
52	Cybersecurity Attacks in Vehicular Sensors. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 13752-13767	4	22
51	Cybersecurity challenges in vehicular communications. <i>Vehicular Communications</i> , <b>2020</b> , 23, 100214	5.7	49
50	Visualizing and Predicting Culex Tarsalis Trapcounts for West Nile Virus (WNV) Disease Incidence using Machine Learning Models <b>2020</b> ,		1
49	A Secure Blockchain-based Communication Approach for UAV Networks <b>2020</b> ,		8
48	Detection of the False Data Injection Attack in Home Area Networks using ANN <b>2019</b> ,		2
47	A Hybrid Regression Model for Day-Ahead Energy Price Forecasting. <i>IEEE Access</i> , <b>2019</b> , 7, 36833-36842	3.5	22
46	Blockchain Technology for Networked Swarms of Unmanned Aerial Vehicles (UAVs) <b>2019</b> ,		27
45	Counter UAS Solutions Through UAV Swarm Environments <b>2019</b> ,		6
44	Adaptive Hoeffding Tree with Transfer Learning for Streaming Synchronophasor Data Sets <b>2019</b> ,		1
43	Residential Load Identification Based on Load Profile using Artificial Neural Network (ANN) <b>2019</b> ,		2
42	A Multi-Stage Price Forecasting Model for Day-Ahead Electricity Markets. <i>Forecasting</i> , <b>2019</b> , 1, 26-46	2.3	13
41	UAV swarm communication and control architectures: a review. <i>Journal of Unmanned Vehicle Systems</i> , <b>2019</b> , 7, 93-106	2.7	35
40	Next generation distributed and networked autonomous vehicles: Review <b>2018</b> ,		4
39	Development of a GPS spoofing apparatus to attack a DJI Matrice 100 Quadcopter. <i>The Journal of Global Positioning Systems</i> , <b>2018</b> , 16,		21
38	Residential Load Forecasting Using Deep Neural Networks (DNN) <b>2018</b> ,		17

37	Deep Neural Networks (DNN) for Day-Ahead Electricity Price Markets <b>2018,</b>		5
36	Optimal Operation of Residential EVs using DNN and Clustering based Energy Forecast <b>2018,</b>		5
35	Evaluation of PMU Placements with SORI and ORC Indices for IEEE Test Feeders <b>2018,</b>		1
34	Two-Stage Load Forecasting for Residual Reduction and Economic Dispatch Using PJM Datasets <b>2018,</b>		3
33	Notice of Removal: A Review and Future Directions of UAV Swarm Communication Architectures <b>2018,</b>		25
32	Optimal Operation of Smart Home Appliances using Deep Learning <b>2018,</b>		3
31	Short-Term Seasonal Energy Forecasting <b>2018,</b>		1
30	Multi-Agent Systems for Resource Allocation and Scheduling in a Smart Grid. <i>Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1</i>	2.1	17
29	Decomposition of Microgrids in Large-Scale Electric Test Beds for Economic Dispatch Optimization. <i>Power Electronics and Power Systems, 2017, 181-200</i>	0.3	
28	Energy Reallocation in a Smart Grid. <i>Power Electronics and Power Systems, 2017, 13-24</i>	0.3	
27	Placement of Synchrophasors Using Linear Programming and Zero-Injection Constraints. <i>Power Electronics and Power Systems, 2017, 125-135</i>	0.3	
26	Resource Allocation Using Branch and Bound. <i>Power Electronics and Power Systems, 2017, 25-38</i>	0.3	
25	Distributed Linear Programming Models in a Smart Grid. <i>Power Electronics and Power Systems, 2017</i>	0.3	6
24	A constrained topological decomposition method for the next-generation smart grid <b>2017,</b>		2
23	Convolutional Neural Networks (CNNs) for power system big data analysis <b>2017,</b>		5
22	Short-term load forecasting using deep neural networks (DNN) <b>2017,</b>		20
21	Uncertainty quantification of wind penetration and integration into smart grid: A survey <b>2017,</b>		8
20	Identification of critical buses based on betweenness-centrality in a smart grid <b>2017,</b>		1

19	Implementation and Testing of the Dantzig-Wolfe Procedure. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 79-90	0.3
18	Maximization of the Utility Function, Time-Dependent Energy Allocation, and Fuzzy-Logic Resource-Allocation Models. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 109-124	0.3
17	A Linear Classifier for Decision Support in a Smart Grid. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 95-108	0.3
16	Unbiased Optimal Power Flow (OPF) for Power Systems with Wind-Power Generation. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 137-143	0.3
15	Smart-Grid Optimization Using A Capacitated Transshipment Problem Solver. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 145-180	0.3
14	Resource Allocation Using DW Decomposition. <i>Power Electronics and Power Systems</i> , <b>2017</b> , 39-78	0.3
13	Optimization of swarms of UAVs <b>2016</b> ,	1
12	Investigation of forecasting methods for the hourly spot price of the day-ahead electric power markets <b>2016</b> ,	3
11	Predicting West Nile Virus (WNV) occurrences in North Dakota using data mining techniques <b>2016</b> ,	3
10	Clustering analytics for streaming smart grid datasets <b>2016</b> ,	5
9	A survey on smart grid metering infrastructures: Threats and solutions <b>2015</b> ,	11
8	Preserving observability in synchrophasors using Optimal Redundancy Criteria (ORC) <b>2015</b> ,	2
7	Using phasor data for visualization and data mining in smart-grid applications <b>2015</b> ,	4
6	User interface for situational awareness of openPDC <b>2014</b> ,	2
5	A Secure Wireless Spectrum Control, Error Correction Scheme in Synchrophasors. <i>International Journal of Handheld Computing Research</i> , <b>2014</b> , 5, 49-59	
4	Optimization models for energy reallocation in a smart grid <b>2011</b> ,	14
3	A Bloom's Online Assessment Test (BOAT) to assess student learning outcome in a distance engineering education course <b>2010</b> ,	1
2	Agent-Oriented Designs for a Self Healing Smart Grid <b>2010</b> ,	21

- 1 Flickermeter Design: An Improved Method to evaluate Short term Flicker Severity Index (Pst) using Walsh Hadamard Transform (WHT) **2010**,