

Nikolaos Gatsis

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.

63

papers

1,853

citations

20

h-index

42

g-index

74

ext. papers

2,356

ext. citations

6.9

avg, IF

5.59

L-index

#	Paper	IF	Citations
63	Observers for Differential Algebraic Equation Models of Power Networks: Jointly Estimating Dynamic and Algebraic States. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	1
62	Buildings-to-distribution-network integration for coordinated voltage regulation and building energy management via distributed resource flexibility. <i>Sustainable Cities and Society</i> , 2021 , 69, 102832	10.1	11
61	. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	6
60	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 4224-4237	3.7	14
59	A New Derivative-Free Linear Approximation for Solving the Network Water Flow Problem With Convergence Guarantees. <i>Water Resources Research</i> , 2020 , 56, no	5.4	3
58	Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1759-1770	10.7	16
57	. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1151-1163	4	5
56	Multi-period Power System State Estimation with PMUs Under GPS Spoofing Attacks. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 597-606	4	6
55	Rejection of Smooth GPS Time Synchronization Attacks via Sparse Techniques. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	8
54	2020 , 4, 145-150		9
53	Algorithms for joint sensor and control nodes selection in dynamic networks. <i>Automatica</i> , 2019 , 106, 124-133	5.7	6
52	Stochastic Planning of Distributed PV Generation. <i>Energies</i> , 2019 , 12, 459	3.1	4
51	Optimal Power Flow With Step-Voltage Regulators in Multi-Phase Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4228-4239	7	13
50	Robust Control for Renewable-Integrated Power Networks Considering Input Bound Constraints and Worst Case Uncertainty Measure. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 1210-1222	4.2	7
49	Evolutionary Multi-Objective Cost and Privacy Driven Load Morphing in Smart Electricity Grid Partition. <i>Energies</i> , 2019 , 12, 2470	3.1	2
48	Geometric Programming-Based Control for Nonlinear, DAE-Constrained Water Distribution Networks 2019 ,		6
47	State Estimation in Water Distribution Networks through a New Successive Linear Approximation 2019 ,		4

46	Artificial Neural Network-Based Adaptive Voltage Regulation in Distribution Systems using Data-Driven Stochastic Optimization 2019 ,		1
45	Time-Varying Sensor and Actuator Selection for Uncertain Cyber-Physical Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 750-762	4	14
44	Placement and Sizing of Inverter-Based Renewable Systems in Multi-Phase Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 918-930	7	16
43	Coupling Load-Following Control With OPF. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2495-2506	10.7	2
42	Vulnerability Analysis of Smart Grids to GPS Spoofing. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3535-3547	10.7	36
41	Buildings-to-Grid Integration Framework. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1237-1249	10.7	17
40	Virtual Budget: Integration of electricity load and price anticipation for load morphing in price-directed energy utilization. <i>Electric Power Systems Research</i> , 2018 , 158, 284-296	3.5	26
39	Real-Time Rejection and Mitigation of Time Synchronization Attacks on the Global Positioning System. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6425-6435	8.9	22
38	Occupancy-based buildings-to-grid integration framework for smart and connected communities. <i>Applied Energy</i> , 2018 , 219, 123-137	10.7	26
37	Convergence of the Z-Bus Method for Three-Phase Distribution Load-Flow with ZIP Loads. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 153-165	7	26
36	Comprehensive Modeling of Three-Phase Distribution Systems via the Bus Admittance Matrix. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2015-2029	7	60
35	Battle of the Attack Detection Algorithms: Disclosing Cyber Attacks on Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018048	2.8	83
34	Buildings-to-Grid Integration Framework 2018 ,		3
33	On Static and Adaptive Policies for Chance-Constrained Voltage Regulation 2018 ,		1
32	A Fixed-Point Iteration for Steady-State Analysis of Water Distribution Networks 2018 ,		5
31	Optimal Tap Selection of Step-Voltage Regulators in Multi-Phase Distribution Networks 2018 ,		4
30	A Joint Indoor WLAN Localization and Outlier Detection Scheme Using LASSO and Elastic-Net Optimization Techniques. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 2079-2092	4.6	31
29	. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 1974-2002	37.1	158

28	Identification of Cyber Attacks on Water Distribution Systems by Unveiling Low-Dimensionality in the Sensory Data 2017 ,		8
27	Chance constrained optimization of distributed energy resources via affine policies 2017 ,		9
26	Actuator selection for cyber-physical systems 2017 ,		1
25	Structured Group Sparsity: A Novel Indoor WLAN Localization, Outlier Detection, and Radio Map Interpolation Scheme. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 6498-6510	6.8	28
24	Indoor WLAN localization using group sparsity optimization technique 2016 ,		3
23	Decentralized Stochastic Optimal Power Flow in Radial Networks With Distributed Generation. <i>IEEE Transactions on Smart Grid</i> , 2016 , 1-15	10.7	49
22	On the solution of the three-phase load-flow in distribution networks 2016 ,		2
21	Assessing power system state estimation accuracy with GPS-spoofed PMU Measurements 2016 ,		3
20	Convergence of the Z-Bus method and existence of unique solution in single-phase distribution load-flow 2016 ,		5
19	Placing and sizing distributed photovoltaic generators for optimal reactive power compensation 2015 ,		2
18	Risk-averse placement and sizing of photovoltaic inverters in radial distribution networks 2015 ,		3
17	A stochastic approximation approach to load shedding in power networks 2014 ,		3
16	Decentralized stochastic programming for real and reactive power management in distribution systems 2014 ,		9
15	Voltage regulation in electricity distribution networks using the conditional value-at-risk 2014 ,		5
14	Decomposition Algorithms for Market Clearing With Large-Scale Demand Response. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1976-1987	10.7	68
13	Monitoring and Optimization for Power Grids: A Signal Processing Perspective. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 107-128	9.4	153
12	Robust Energy Management for Microgrids With High-Penetration Renewables. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 944-953	8.2	513
11	Residential Load Control: Distributed Scheduling and Convergence With Lost AMI Messages. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 770-786	10.7	155

10	Asynchronous subgradient methods with unbounded delays for communication networks 2012 ,		2
9	Cross-Layer Design of Coded Multicast for Wireless Random Access Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 1970-1980	14.2	8
8	Power Control With Imperfect Exchanges and Applications to Spectrum Sharing. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 3410-3423	4.8	5
7	Cross-Layer Designs in Coded Wireless Fading Networks With Multicast. <i>IEEE/ACM Transactions on Networking</i> , 2011 , 19, 1276-1289	3.8	25
6	Cooperative multi-residence demand response scheduling 2011 ,		51
5	Residential demand response with interruptible tasks: Duality and algorithms 2011 ,		26
4	A class of convergent algorithms for resource allocation in wireless fading networks. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 1808-1823	9.6	21
3	Power control for cooperative dynamic spectrum access networks with diverse QoS constraints. <i>IEEE Transactions on Communications</i> , 2010 , 58, 933-944	6.9	25
2	Cross-layer optimization of wireless fading ad-hoc networks 2009 ,		1
1	Utility-based power control for peer-to-peer cognitive radio networks with heterogeneous QoS constraints. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	14