Nikolaos Gatsis

List of Publications by Year
in descending order

74 papers	2,708 citations	279778 23 h-index	289230 40 g-index
74 all docs	74 docs citations	74 times ranked	3134 citing authors

#	Article	IF	Citations
1	Robust Energy Management for Microgrids With High-Penetration Renewables. IEEE Transactions on Sustainable Energy, 2013, 4, 944-953.	8.8	676
2	Modern WLAN Fingerprinting Indoor Positioning Methods and Deployment Challenges. IEEE Communications Surveys and Tutorials, 2017, 19, 1974-2002.	39.4	238
3	Monitoring and Optimization for Power Grids: A Signal Processing Perspective. IEEE Signal Processing Magazine, 2013, 30, 107-128.	5.6	207
4	Residential Load Control: Distributed Scheduling and Convergence With Lost AMI Messages. IEEE Transactions on Smart Grid, 2012, 3, 770-786.	9.0	180
5	Battle of the Attack Detection Algorithms: Disclosing Cyber Attacks on Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	127
6	Decomposition Algorithms for Market Clearing With Large-Scale Demand Response. IEEE Transactions on Smart Grid, 2013, 4, 1976-1987.	9.0	114
7	Comprehensive Modeling of Three-Phase Distribution Systems via the Bus Admittance Matrix. IEEE Transactions on Power Systems, 2018, 33, 2015-2029.	6.5	97
8	Decentralized Stochastic Optimal Power Flow in Radial Networks With Distributed Generation. IEEE Transactions on Smart Grid, 2016, , 1-15.	9.0	65
9	Vulnerability Analysis of Smart Grids to GPS Spoofing. IEEE Transactions on Smart Grid, 2019, 10, 3535-3548.	9.0	63
10	Cooperative multi-residence demand response scheduling. , 2011, , .		59
11	A Joint Indoor WLAN Localization and Outlier Detection Scheme Using LASSO and Elastic-Net Optimization Techniques. IEEE Transactions on Mobile Computing, 2017, 16, 2079-2092.	5.8	56
12	Convergence of the Z-Bus Method for Three-Phase Distribution Load-Flow with ZIP Loads. IEEE Transactions on Power Systems, 2018, 33, 153-165.	6.5	41
13	A GPS Spoofing Detection and Classification Correlator-Based Technique Using the LASSO. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4224-4237.	4.7	41
14	Occupancy-based buildings-to-grid integration framework for smart and connected communities. Applied Energy, 2018, 219, 123-137.	10.1	38
15	Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. IEEE Transactions on Smart Grid, 2020, 11, 1759-1770.	9.0	38
16	Structured Group Sparsity: A Novel Indoor WLAN Localization, Outlier Detection, and Radio Map Interpolation Scheme. IEEE Transactions on Vehicular Technology, 2017, 66, 6498-6510.	6.3	37
17	Real-Time Rejection and Mitigation of Time Synchronization Attacks on the Global Positioning System. IEEE Transactions on Industrial Electronics, 2018, 65, 6425-6435.	7.9	36
18	Buildings-to-Grid Integration Framework. IEEE Transactions on Smart Grid, 2019, 10, 1237-1249.	9.0	36

#	ARTICLE	IF	CITATIONS
19	Virtual Budget: Integration of electricity load and price anticipation for load morphing in price-directed energy utilization. Electric Power Systems Research, 2018, 158, 284-296.	3.6	34
20	Residential demand response with interruptible tasks: Duality and algorithms. , 2011, , .		32
21	Buildings-to-distribution-network integration for coordinated voltage regulation and building energy management via distributed resource flexibility. Sustainable Cities and Society, 2021, 69, 102832.	10.4	32
22	Cross-Layer Designs in Coded Wireless Fading Networks With Multicast. IEEE/ACM Transactions on Networking, 2011, 19, 1276-1289.	3.8	31
23	Power control for cooperative dynamic spectrum access networks with diverse QoS constraints. IEEE Transactions on Communications, 2010, 58, 933-944.	7.8	30
24	Placement and Sizing of Inverter-Based Renewable Systems in Multi-Phase Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 918-930.	6.5	28
25	A class of convergent algorithms for resource allocation in wireless fading networks. IEEE Transactions on Wireless Communications, 2010, 9, 1808-1823.	9.2	25
26	Time-Varying Sensor and Actuator Selection for Uncertain Cyber-Physical Systems. IEEE Transactions on Control of Network Systems, 2019, 6, 750-762.	3.7	22
27	Utility-based power control for peer-to-peer cognitive radio networks with heterogeneous QoS constraints. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	21
28	Optimal Power Flow With Step-Voltage Regulators in Multi-Phase Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 4228-4239.	6.5	19
29	Robust Control for Renewable-Integrated Power Networks Considering Input Bound Constraints and Worst Case Uncertainty Measure. IEEE Transactions on Control of Network Systems, 2019, 6, 1210-1222.	3.7	16
30	Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. IEEE Transactions on Control of Network Systems, 2020, 7, 1151-1163.	3.7	16
31	Tuning-Free, Low Memory Robust Estimator to Mitigate GPS Spoofing Attacks. , 2020, 4, 145-150.		14
32	Rejection of Smooth GPS Time Synchronization Attacks via Sparse Techniques. IEEE Sensors Journal, 2020, , 1-1.	4.7	14
33	Identification of Cyber Attacks on Water Distribution Systems by Unveiling Low-Dimensionality in the Sensory Data. , 2017, , .		13
34	Algorithms for joint sensor and control nodes selection in dynamic networks. Automatica, 2019, 106, 124-133.	5.0	13
35	Decentralized stochastic programming for real and reactive power management in distribution systems. , 2014, , .		12
36	Multi-period Power System State Estimation with PMUs Under GPS Spoofing Attacks. Journal of Modern Power Systems and Clean Energy, 2020, 8, 597-606.	5.4	12

#	Article	IF	Citations
37	Cross-Layer Design of Coded Multicast for Wireless Random Access Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 1970-1980.	14.0	11
38	Assessing power system state estimation accuracy with GPS-spoofed PMU Measurements. , 2016, , .		11
39	A stochastic approximation approach to load shedding inpower networks. , 2014, , .		10
40	Chance constrained optimization of distributed energy resources via affine policies. , 2017, , .		10
41	Stochastic Planning of Distributed PV Generation. Energies, 2019, 12, 459.	3.1	8
42	Coupling Load-Following Control With OPF. IEEE Transactions on Smart Grid, 2019, 10, 2495-2506.	9.0	8
43	Probabilistic State Estimation in Water Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 507-519.	5.2	8
44	Observers for Differential Algebraic Equation Models of Power Networks: Jointly Estimating Dynamic and Algebraic States. IEEE Transactions on Control of Network Systems, 2022, 9, 1531-1543.	3.7	8
45	A Fixed-Point Iteration for Steady-State Analysis of Water Distribution Networks. , 2018, , .		7
46	A New Derivative‐Free Linear Approximation for Solving the Network Water Flow Problem With Convergence Guarantees. Water Resources Research, 2020, 56, no.	4.2	7
47	Optimal Tap Selection of Step-Voltage Regulators in Multi-Phase Distribution Networks. , 2018, , .		6
48	State Estimation in Water Distribution Networks through a New Successive Linear Approximation. , 2019, , .		6
49	Artificial Neural Network-Based Adaptive Voltage Regulation in Distribution Systems using Data-Driven Stochastic Optimization. , 2019, , .		6
50	Geometric Programming-Based Control for Nonlinear, DAE-Constrained Water Distribution Networks. , 2019, , .		6
51	Power Control With Imperfect Exchanges and Applications to Spectrum Sharing. IEEE Transactions on Signal Processing, 2011, 59, 3410-3423.	5.3	5
52	Voltage regulation in electricity distribution networks using the conditional value-at-risk. , 2014, , .		5
53	Convergence of the Z-Bus method and existence of unique solution in single-phase distribution load-flow. , 2016, , .		5
54	Evolutionary Multi-Objective Cost and Privacy Driven Load Morphing in Smart Electricity Grid Partition. Energies, 2019, 12, 2470.	3.1	5

#	Article	IF	Citations
55	Asynchronous subgradient methods with unbounded delays for communication networks. , 2012, , .		4
56	Buildings-to-Grid Integration Framework. , 2018, , .		4
57	Optimal pump scheduling in multi-phase distribution networks using Benders decomposition. Electric Power Systems Research, 2022, 212, 108584.	3.6	4
58	Placing and sizing distributed photovoltaic generators for optimal reactive power compensation. , 2015, , .		3
59	Risk-averse placement and sizing of photovoltaic inverters in radial distribution networks. , 2015, , .		3
60	Indoor WLAN localization using group sparsity optimization technique. , 2016, , .		3
61	Actuator selection for cyber-physical systems. , 2017, , .		3
62	Vulnerability Analysis of Smart Grids to GPS Spoofing. , 2018, , .		3
63	Decentralized coordination of energy resources in electricity distribution networks. , 2016, , .		2
64	On the solution of the three-phase load-flow in distribution networks. , 2016, , .		2
65	On Static and Adaptive Policies for Chance-Constrained Voltage Regulation. , 2018, , .		2
66	Evaluation of the detection and mitigation of time synchronization attacks on the global positioning system. , 2018, , .		2
67	Co-Optimization of Interdependent Water and Power Distribution Networks. , 2021, , .		2
68	Energy-Efficient Optimal Water Flow Considering Pump Efficiency. , 2021, , .		2
69	Cross-layer optimization of wireless fading ad-hoc networks. , 2009, , .		1
70	Cross-layer design of coded multicast for wireless random access networks. , 2011, , .		1
71	Augmenting the optimal power flow for stability. , 2016, , .		1
72	Effects of Pseudo-Measurements on GPS Spoofed Power System State Estimation. , 2022, , .		1

#	Article	IF	Citations
73	Cross-Layer Design of Multicast in Fading: Network Coding and Asynchronous Subgradients. , 2010, , .		0
74	Robust Control of Power Networks under Worst-Case Load and Renewables Uncertainty. , 2018, , .		0