Guo Chen

List of Publications by Year
in descending order

109 papers	3,759 citations
117625 34 h-index	133252 59 g-index
109 all docs	109 docs citations
109 times ranked	3396 citing authors

#	Article	IF	Citations
1	A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids. IEEE Transactions on Smart Grid, 2020, 11, 2218-2234.	9.0	361
2	Efficient Computation for Sparse Load Shifting in Demand Side Management. IEEE Transactions on Smart Grid, 2017, 8, 250-261.	9.0	210
3	An extended method for obtaining S-boxes based on three-dimensional chaotic Baker maps. Chaos, Solitons and Fractals, 2007, 31, 571-579.	5.1	190
4	Event-triggered asynchronous intermittent communication strategy for synchronization in complex dynamical networks. Neural Networks, 2015, 66, 1-10.	5.9	169
5	Event-Triggered Distributed Average Consensus Over Directed Digital Networks With Limited Communication Bandwidth. IEEE Transactions on Cybernetics, 2016, 46, 3098-3110.	9.5	135
6	Attack structural vulnerability of power grids: A hybrid approach based on complex networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 595-603.	2.6	126
7	High-Performance Consensus Control in Networked Systems With Limited Bandwidth Communication and Time-Varying Directed Topologies. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1043-1054.	11.3	126
8	A Generalized Hopfield Network for Nonsmooth Constrained Convex Optimization: Lie Derivative Approach. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 308-321.	11.3	120
9	A novel heuristic method for obtaining S-boxes. Chaos, Solitons and Fractals, 2008, 36, 1028-1036.	5.1	103
10	An improved model for structural vulnerability analysis of power networks. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4259-4266.	2.6	96
11	Maximum power extraction for wind turbines through a novel yaw control solution using predicted wind directions. Energy Conversion and Management, 2018, 157, 587-599.	9.2	91
12	Exploring Reliable Strategies for Defending Power Systems Against Targeted Attacks. IEEE Transactions on Power Systems, 2011, 26, 1000-1009.	6.5	86
13	A Sliding Mode Based Damping Control of DFIG for Interarea Power Oscillations. IEEE Transactions on Sustainable Energy, 2017, 8, 258-267.	8.8	86
14	Distributed Consensus Optimization in Multiagent Networks With Time-Varying Directed Topologies and Quantized Communication. IEEE Transactions on Cybernetics, 2017, 47, 2044-2057.	9.5	79
15	Improving interdependent networks robustness by adding connectivity links. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 9-19.	2.6	77
16	Flexible transmission expansion planning associated with large€scale wind farms integration considering demand response. IET Generation, Transmission and Distribution, 2015, 9, 2276-2283.	2.5	76
17	Reinforcement Learning for Constrained Energy Trading Games With Incomplete Information. IEEE Transactions on Cybernetics, 2017, 47, 3404-3416.	9.5	76
18	Data-Driven Planning of Electric Vehicle Charging Infrastructure: A Case Study of Sydney, Australia. IEEE Transactions on Smart Grid, 2021, 12, 3289-3304.	9.0	74

#	Article	IF	Citations
19	Leader-following finite-time consensus in second-order multi-agent networks with nonlinear dynamics. International Journal of Control, Automation and Systems, 2013, 11, 422-426.	2.7	66
20	Leader-following exponential consensus of general linear multi-agent systems via event-triggered control with combinational measurements. Applied Mathematics Letters, 2015, 40, 35-39.	2.7	66
21	Reinforcement Learning in Energy Trading Game among Smart Microgrids. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	61
22	Distributed Robust Algorithm for Economic Dispatch in Smart Grids Over General Unbalanced Directed Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4322-4332.	11.3	56
23	Pinning exponential synchronization of complex networks via event-triggered communication with combinational measurements. Neurocomputing, 2015, 157, 199-207.	5.9	53
24	Advanced Pattern Discovery-based Fuzzy Classification Method for Power System Dynamic Security Assessment. IEEE Transactions on Industrial Informatics, 2015, 11, 416-426.	11.3	44
25	Leader-Following Consensus of Discrete-Time Multiagent Systems With Encodingâ€"Decoding. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 401-405.	3.0	43
26	Distributed mirror descent method for multi-agent optimization with delay. Neurocomputing, 2016, 177, 643-650.	5.9	43
27	Will electrical cyberâ€"physical interdependent networks undergo first-order transition under random attacks?. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 235-245.	2.6	42
28	Consensus analysis of multiagent systems with second-order nonlinear dynamics and general directed topology: An event-triggered scheme. Information Sciences, 2016, 370-371, 598-622.	6.9	42
29	A fully distributed ADMM-based dispatch approach for virtual power plant problems. Applied Mathematical Modelling, 2018, 58, 300-312.	4.2	41
30	Power system cascading risk assessment based on complex network theory. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 532-543.	2.6	40
31	A novel interval grey prediction model considering uncertain information. Journal of the Franklin Institute, 2013, 350, 3400-3416.	3.4	39
32	A Low-Overhead, Confidentiality-Assured, and Authenticated Data Acquisition Framework for IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 7566-7578.	11.3	38
33	Event-triggered consensus in nonlinear multi-agent systems with nonlinear dynamics and directed network topology. Neurocomputing, 2016, 185, 105-112.	5.9	37
34	Distributed Economic Model Predictive Control for a Windâ€"Photovoltaicâ€"Battery Microgrid Power System. IEEE Transactions on Sustainable Energy, 2020, 11, 1089-1099.	8.8	36
35	Parallel and Distributed Computation for Dynamical Economic Dispatch. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	33
36	Distributed Constrained Optimization Over Unbalanced Directed Networks Using Asynchronous Broadcast-Based Algorithm. IEEE Transactions on Automatic Control, 2021, 66, 1102-1115.	5.7	29

#	Article	IF	Citations
37	An improved framework for power grid vulnerability analysis considering critical system features. Physica A: Statistical Mechanics and Its Applications, 2014, 395, 405-415.	2.6	27
38	Small Fault Detection for a Class of Closed-Loop Systems via Deterministic Learning. IEEE Transactions on Cybernetics, 2019, 49, 897-906.	9.5	27
39	Planning PEV Fast-Charging Stations Using Data-Driven Distributionally Robust Optimization Approach Based on Ï•-Divergence. IEEE Transactions on Transportation Electrification, 2020, 6, 170-180.	7.8	26
40	A power flow based model for the analysis of vulnerability in power networks. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 105-115.	2.6	25
41	A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. IEEE Transactions on Smart Grid, 2020, 11, 1724-1736.	9.0	22
42	Interpretable Memristive LSTM Network Design for Probabilistic Residential Load Forecasting. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2297-2310.	5.4	21
43	Attraction Region Seeking for Power Grids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 201-205.	3.0	20
44	Operating Expense Optimization for EVs in Multiple Depots and Charge Stations Environment Using Evolutionary Heuristic Method. IEEE Transactions on Smart Grid, 2018, 9, 6599-6611.	9.0	20
45	Event-triggered nonlinear consensus in directed multi-agent systems with combinational state measurements. International Journal of Systems Science, 2016, 47, 3364-3377.	5.5	18
46	Constrained consensus of asynchronous discrete-time multi-agent systems with time-varying topology. Information Sciences, 2015, 320, 223-234.	6.9	17
47	Event-triggered sampling scheme for pinning control in multi-agent networks with general nonlinear dynamics. Neural Computing and Applications, 2016, 27, 2587-2599.	5.6	17
48	Distributed subgradient method for multi€agent optimization with quantized communication. Mathematical Methods in the Applied Sciences, 2017, 40, 1201-1213.	2.3	17
49	Event€Based Semiglobal Consensus of Homogenous Linear Multi€Agent Systems Subject to Input Saturation. Asian Journal of Control, 2017, 19, 564-574.	3.0	17
50	A Risk-Averse Energy Sharing Market Game for Renewable Energy Microgrid Aggregators. IEEE Transactions on Power Systems, 2022, 37, 3528-3539.	6.5	16
51	Incentive edge-based federated learning for false data injection attack detection on power grid state estimation: A novel mechanism design approach. Applied Energy, 2022, 314, 118828.	10.1	16
52	Event-triggered control for multi-agent network with limited digital communication. Nonlinear Dynamics, 2015, 82, 1659-1669.	5.2	15
53	Computation-Efficient Distributed Algorithm for Convex Optimization Over Time-Varying Networks With Limited Bandwidth Communication. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 140-151.	2.8	15
54	Planning of Hydrogen Refueling Stations in Urban Setting While Considering Hydrogen Redistribution. IEEE Transactions on Industry Applications, 2022, 58, 2898-2908.	4.9	15

#	Article	IF	Citations
55	A fast dual proximal-gradient method for separable convex optimization with linear coupled constraints. Computational Optimization and Applications, 2016, 64, 671-697.	1.6	14
56	Simplified Sequential Simulation of Bulk Power System Reliability Via Chronological Probability Model of Load Supplying Capability. IEEE Transactions on Power Systems, 2018, 33, 2349-2358.	6.5	14
57	Eventâ€Triggered Control for Multiâ€Agent Systems with General Directed Topology and Time Delays. Asian Journal of Control, 2016, 18, 945-953.	3.0	13
58	Distributed multi-agent optimization with inequality constraints and random projections. Neurocomputing, 2016, 197, 195-204.	5.9	12
59	A Comprehensive Model With Fast Solver for Optimal Energy Scheduling in RTP Environment. IEEE Transactions on Smart Grid, 2017, 8, 2314-2323.	9.0	12
60	Decentralized Optimal Reactive Power Dispatch of Optimally Partitioned Distribution Networks. IEEE Access, 2018, 6, 74051-74060.	4.2	12
61	An Overview of Cyber Security for Smart Grid. , 2018, , .		12
62	A dynamic game behavior: Demand side management based on utility maximization with renewable energy and storage integration. , 2014, , .		10
63	A flexible framework of line power flow estimation for high-order contingency analysis. International Journal of Electrical Power and Energy Systems, 2015, 70, 1-8.	5.5	10
64	Distributed parameter estimation in unreliable sensor networks via broadcast gossip algorithms. Neural Networks, 2016, 73, 1-9.	5.9	10
65	Cluster lag synchronization of delayed heterogeneous complex dynamical networks via intermittent pinning control. Neural Computing and Applications, 2019, 31, 7945-7961.	5.6	10
66	An efficient algorithm for optimal real-time pricing strategy in smart grid. , 2014, , .		9
67	Impulsive control for synchronizing delayed discrete complex networks with switching topology. Neural Computing and Applications, 2014, 24, 59-68.	5.6	9
68	Distributed parameter estimation in unreliable WSNs: Quantized communication and asynchronous intermittent observation. Information Sciences, 2015, 309, 11-25.	6.9	9
69	Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5153-5164.	9.3	9
70	Recurrent Neural Network for Nonconvex Economic Emission Dispatch. Journal of Modern Power Systems and Clean Energy, 2021, 9, 46-55.	5.4	9
71	Coâ€optimisation model for the longâ€term design and decision making in community level cloud energy storage system. IET Renewable Power Generation, 2020, 14, 3518-3525.	3.1	9
72	Attack Detection in Automatic Generation Control Systems using LSTM-Based Stacked Autoencoders. IEEE Transactions on Industrial Informatics, 2023, 19, 153-165.	11.3	9

#	ARTICLE	IF	CITATIONS
73	Learning vector quantization neural network method for network intrusion detection. Wuhan University Journal of Natural Sciences, 2007, 12, 147-150.	0.4	8
74	Evolutionary Aggregation Approach for Multihop Energy Metering in Smart Grid for Residential Energy Management. IEEE Transactions on Industrial Informatics, 2021, 17, 1058-1068.	11.3	8
75	Vulnerabilities, Threats, and Impacts of False Data Injection Attacks in Smart Grids: An Overview. , 2020, , .		8
76	Diverting homoclinic chaos in a class of piecewise smooth oscillators to stable periodic orbits using small parametrical perturbations. Neurocomputing, 2015, 149, 1587-1595.	5.9	7
77	Enhanced evolutionary heuristic approaches for remote metering smart grid networks. IET Networks, 2016, 5, 153-161.	1.8	7
78	A Novel High-Performance Deep Learning Framework for Load Recognition: Deep-Shallow Model Based on Fast Backpropagation. IEEE Transactions on Power Systems, 2022, 37, 1718-1729.	6.5	7
79	Two-Stage Community Energy Trading Under End-Edge-Cloud Orchestration. IEEE Internet of Things Journal, 2023, 10, 1961-1972.	8.7	7
80	A new method of enhancing reliability for transmission expansion planning. Journal of Modern Power Systems and Clean Energy, 2014, 2, 341-349.	5.4	6
81	Distributionally Robust Framework and its Approximations Based on Vector and Region Split for Self-Scheduling of Generation Companies. IEEE Transactions on Industrial Informatics, 2022, 18, 5231-5241.	11.3	6
82	Verhulst Model of Interval Grey Number Based on Information Decomposing and Model Combination. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.9	5
83	A rule based domestic load profile generator for future smart grid. , 2014, , .		5
84	A Fully Decentralized Distribution Market Mechanism Using ADMM. , 2019, , .		5
85	Online Characterization and Detection of False Data Injection Attacks in Wide-Area Monitoring Systems. IEEE Transactions on Power Systems, 2022, 37, 2549-2562.	6.5	5
86	A Demand-Side Load Event Detection Algorithm Based on Wide-Deep Neural Networks and Randomized Sparse Backpropagation. Frontiers in Energy Research, 2021, 9, .	2.3	5
87	Complex Network Theory based Power Grid Vulnerability Assessment from Past to Future. , 2012, , .		4
88	Distributed mirror descent method for saddle point problems over directed graphs. Complexity, 2016, 21, 178-190.	1.6	4
89	A discriminant graph nonnegative matrix factorization approach to computer vision. Neural Computing and Applications, 2019, 31, 7879-7889.	5.6	4
90	Event-triggered asynchronous distributed optimization algorithm with heterogeneous time-varying step-sizes. Neural Computing and Applications, 2020, 32, 6175-6184.	5.6	4

#	Article	IF	Citations
91	Profit-Oriented False Data Injection Attack Against Wind Farms and Countermeasures. IEEE Systems Journal, 2022, 16, 3700-3710.	4.6	4
92	Transmission network expansion planning with wind energy integration: A stochastic programming model. , 2012, , .		3
93	Consensus in networked dynamical systems with event-triggered control inputs and random switching topologies. Neural Computing and Applications, 2017, 28, 1095-1108.	5.6	3
94	A Data-Driven Joint Chance-Constrained Game for Renewable Energy Aggregators in the Local Market. IEEE Transactions on Smart Grid, 2023, 14, 1430-1440.	9.0	3
95	Robust H<inf>&#x221E;</inf> Load Frequency Control of future power grid with energy storage considering parametric uncertainty and time delay. , 2014, , .		2
96	Optimization Models and Algorithms for Operation and Control with Advanced Information Technologies. Scientific Programming, 2017, 2017, 1-2.	0.7	2
97	A novel short-term dispatch scheme for wind farm with battery energy storage system. , 2013, , .		1
98	Risk Based Identification of Cascading Chains Based on Generalized Line Outage Distribution Factors. , 2013, , .		1
99	A lower sideband EMD and its application in power systems. , 2015, , .		1
100	A stochastic game for energy resource trading in the context of Energy Internet. , 2016, , .		1
101	On the weak ergodicity of the Markov Chain associated with a chaotic simulated annealing algorithm. , 2008, , .		0
102	Influence of enhanced interconnecting links on cascading failures in smart grid. , 2015, , .		0
103	Impact of different penetrations of renewable sources and demand side management on Australian future grid. , 2015, , .		0
104	Consensus-driven distributed control of battery energy storage systems for loading management in distribution networks. , 2016, , .		0
105	A distributed control for active power curtailment within a wind farm based on ratio consensus algorithms. , 2016, , .		0
106	Distributed Reactive Power Optimization in Distribution Systems Based on System Partitioning. , 2018, , .		0
107	An Object Surveillance Algorithm Based on Batch-Normalized CNN and Data Augmentation in Smart Home. , 2019, , .		0
108	A Novel Cryptographic Scheme Based on Wavelet Neural Networks. Lecture Notes in Computer Science, 2006, , 326-331.	1.3	0

#	ARTICLE	IF	CITATIONS
109	Statistical Techniques-based Characterization of FDIA in Smart Grids Considering Grid Contingencies. , 2020, , .		0