

Jianming Lian

List of Publications by Year in descending order

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87
papers

1,924
citations

430754

18
h-index

377752

34
g-index

91
all docs

91
docs citations

91
times ranked

1727
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse Control Synthesis for Uncertain Responsive Loads With Stochastic Stability Guarantees. IEEE Transactions on Power Systems, 2022, 37, 167-178.	4.6	1
2	Distributed and communication-efficient solutions to linear equations with special sparse structure. Systems and Control Letters, 2022, 160, 105065.	1.3	1
3	New data-driven approach to bridging power system protection gaps with deep learning. Electric Power Systems Research, 2022, 208, 107863.	2.1	3
4	Simulation-based performance evaluation of model predictive control for building energy systems. Applied Energy, 2021, 281, 116027.	5.1	40
5	Synthetic High Impedance Fault Data through Deep Convolutional Generated Adversarial Network. , 2021, , .		2
6	On anomaly detection for transactive energy systems with competitive market. International Journal of Electrical Power and Energy Systems, 2021, 128, 106662.	3.3	2
7	Wide-area measurement-based modal decoupling for power system oscillation damping. Electric Power Systems Research, 2020, 178, 106022.	2.1	9
8	Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. IEEE Transactions on Power Systems, 2020, 35, 2024-2036.	4.6	28
9	Distributed Robust Adaptive Frequency Control of Power Systems With Dynamic Loads. IEEE Transactions on Automatic Control, 2020, 65, 4887-4894.	3.6	10
10	Frequency-domain Flexibility Characterization of Heterogeneous End-use Loads for Grid Services. , 2020, , .		3
11	Privacy-Preserving Transactive Energy System. , 2020, , .		7
12	Anomaly Detection of Transactive Energy Systems with Competitive Markets. , 2020, , .		0
13	Transactive Energy Systems: The Market-Based Coordination of Distributed Energy Resources. IEEE Control Systems, 2020, 40, 26-52.	1.0	35
14	Market-based Co-optimization of Energy and Ancillary Services with Distributed Energy Resource Flexibilities. , 2020, , .		1
15	Transactive Control Design for Commercial Buildings to Provide Demand Response. IFAC-PapersOnLine, 2019, 51, 151-156.	0.5	12
16	Solving a system of linear equations: From centralized to distributed algorithms. Annual Reviews in Control, 2019, 47, 306-322.	4.4	49
17	Optimal Iterative Method for Network Utility Maximization with Intertemporal Dynamic Constraints. , 2019, , .		0
18	Transactive Coordination of Flexible Loads with Energy Storage through Day-ahead Scheduling. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Data-based Aggregate Model of Refrigerators for Electric Power Grid Services. , 2019, , .		0
20	A Unified Virtual Battery Model for Responsive Assets. , 2019, , .		2
21	Transmission Line Fault Location Using Deep Learning Techniques. , 2019, , .		12
22	Performance Evaluation for Transactive Energy Systems Using Double-Auction Market. IEEE Transactions on Power Systems, 2019, 34, 4128-4137.	4.6	46
23	Electricity Markets in the United States: A Brief History, Current Operations, and Trends. Power Electronics and Power Systems, 2019, , 3-27.	0.6	2
24	Residential Heating System Control for Future Electric Power Grid Services Using Minimal Measurements. , 2019, , .		0
25	Interarea Oscillation Damping Control Using High-Voltage DC Transmission: A Survey. IEEE Transactions on Power Systems, 2018, 33, 6915-6923.	4.6	44
26	Optimal Coordination of Building Loads and Energy Storage for Power Grid and End User Services. IEEE Transactions on Smart Grid, 2018, 9, 4335-4345.	6.2	119
27	Ensemble-based uncertainty quantification for coordination and control of thermostatically controlled loads. Journal of Control and Decision, 2018, 5, 148-168.	0.7	1
28	Integration of Retail and Wholesale Markets: Modeling Framework and Stability Analysis. , 2018, , .		1
29	Behind-the-meter Transactive Control Approach for Home Energy Management System. , 2018, , .		5
30	Communication-efficient Distributed Solutions to a System of Linear Equations with Laplacian Sparse Structure. , 2018, , .		5
31	Prioritized Threshold Allocation for Distributed Frequency Response. , 2018, , .		14
32	Wide-Area Demand-Side Control for Inter-Area Oscillation Mitigation in Power Systems. , 2018, , .		3
33	Oscillation Damping Control Using Multiple High Voltage DC Transmission Lines: Controllability Exploration. , 2018, , .		3
34	Impact of Cyber Attacks on High Voltage DC Transmission Damping Control. Energies, 2018, 11, 1046.	1.6	18
35	Guest editorial: advances in control and decision for power and energy systems. Journal of Control and Decision, 2018, 5, 115-116.	0.7	0
36	Hierarchical control framework for integrated coordination between distributed energy resources and demand response. Electric Power Systems Research, 2017, 150, 45-54.	2.1	19

#	ARTICLE	IF	CITATIONS
37	Robust distributed volt/var control of distribution systems. , 2017, , .		2
38	Theoretical framework for integrating distributed energy resources into distribution systems. , 2017, , .		1
39	Calibrating physical parameters in house models using aggregate AC power demand. , 2017, , .		0
40	Assessment of optimal flexibility in ensemble of frequency responsive loads. , 2017, , .		4
41	Poster Abstract: A Unified Distributed Control Framework for Inverter-Based Islanded Microgrid. , 2016, , .		0
42	On reverse Stackelberg game and optimal mean field control for a large population of thermostatically controlled loads. , 2016, , .		5
43	On social optima of non-cooperative mean field games. , 2016, , .		7
44	Market-based coordination of thermostatically controlled loads-Part I: A mechanism design formulation. , 2016, , .		0
45	Hierarchical decentralized control strategy for demand-side primary frequency response. , 2016, , .		18
46	Minimum-Time Consensus-Based Approach for Power System Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 1318-1328.	5.2	85
47	Market-Based Coordination of Thermostatically Controlled Loads”Part I: A Mechanism Design Formulation. IEEE Transactions on Power Systems, 2016, 31, 1170-1178.	4.6	115
48	Market-Based Coordination of Thermostatically Controlled Loads”Part II: Unknown Parameters and Case Studies. IEEE Transactions on Power Systems, 2016, 31, 1179-1187.	4.6	28
49	Impacts of time delays on distributed algorithms for economic dispatch. , 2015, , .		7
50	Generalized aggregation and coordination of residential loads in a smart community. , 2015, , .		21
51	Distributed flexibility characterization and resource allocation for multi-zone commercial buildings in the smart grid. , 2015, , .		16
52	Variable Neural Adaptive Robust Control: A Switched System Approach. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 903-915.	7.2	16
53	A hierarchical framework for demand-side frequency control. , 2014, , .		16
54	Mitigation of remedial action schemes by decentralized robust governor control. , 2014, , .		0

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55	Distributed hierarchical control architecture for transient dynamics improvement in power systems. , 2014, , .		2
56	On market-based coordination of Thermostatically Controlled Loads with user preference. , 2014, , .		1
57	Aggregated modeling and control of air conditioning loads for demand response. , 2014, , .		21
58	Modeling of Electric Water Heaters for Demand Response: A Baseline PDE Model. IEEE Transactions on Smart Grid, 2014, 5, 2203-2210.	6.2	89
59	Aggregated Modeling and Control of Air Conditioning Loads for Demand Response. IEEE Transactions on Power Systems, 2013, 28, 4655-4664.	4.6	389
60	Modeling and control of aggregated air conditioning loads under realistic conditions. , 2013, , .		14
61	Distributed Hierarchical Control Architecture for Transient Dynamics Improvement in Power Systems. IEEE Transactions on Power Systems, 2013, 28, 3065-3074.	4.6	32
62	Model Predictive Control-Based Optimal Coordination of Distributed Energy Resources. , 2013, , .		6
63	Optimal SCR Control Using Data-Driven Models. , 2013, , .		4
64	Reduced-order modeling of aggregated thermostatic loads with demand response. , 2012, , .		18
65	Mitigating voltage sags due to DOL starting of three phase asynchronous motors using dynamic voltage restorer (DVR). , 2012, , .		4
66	Distributed hierarchical control of multi-area power systems with improved primary frequency regulation. , 2012, , .		6
67	Variable neural adaptive robust observer for uncertain systems. , 2011, , .		1
68	Controller Design for a Class of Uncertain Systems with Guaranteed Performance. SIAM Journal on Control and Optimization, 2011, 49, 1239-1261.	1.1	2
69	Sliding-mode observers for systems with unknown inputs: A high-gain approach. Automatica, 2010, 46, 347-353.	3.0	167
70	Quadratic optimal control of switched linear stochastic systems. Systems and Control Letters, 2010, 59, 736-744.	1.3	35
71	Decentralized Dynamic Output Feedback Control of Nonlinear Interconnected Systems. IEEE Transactions on Automatic Control, 2010, 55, 1964-1970.	3.6	42
72	Variable neural adaptive robust output feedback control of uncertain systems. , 2010, , .		2

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73	Adaptive robust control: A piecewise Lyapunov function approach. , 2009, , .		6
74	A Medium Voltage DC Testbed for ship power system research. , 2009, , .		51
75	Reduced-order observer-based decentralised control of non-linear interconnected systems. International Journal of Control, 2009, 82, 1157-1166.	1.2	12
76	Reduced-order observer based decentralized controller design: The LMI approach. , 2009, , .		0
77	Control of Uncertain Systems. , 2009, , 199-219.		2
78	Decentralized control of multimachine power systems. , 2009, , .		16
79	Sliding-mode observers for uncertain systems. , 2009, , .		7
80	On decentralised control of non-linear interconnected systems. International Journal of Control, 2009, 82, 541-554.	1.2	10
81	Self-Organizing Radial Basis Function Network for Real-Time Approximation of Continuous-Time Dynamical Systems. IEEE Transactions on Neural Networks, 2008, 19, 460-474.	4.8	63
82	Decentralized control using reduced-order unknown input observers. , 2008, , .		2
83	Variable Neural Direct Adaptive Robust Control of Uncertain Systems. IEEE Transactions on Automatic Control, 2008, 53, 2658-2664.	3.6	40
84	Decentralized control of nonlinear interconnected systems. , 2008, , .		4
85	Variable structure neural network based direct adaptive robust control of uncertain systems. , 2008, , .		11
86	Control of uncertain systems with guaranteed performance. , 2008, , .		0
87	Enhancing the Implementation of a First-order Equivalent Thermal Parameter Model to Enable Accurate and Robust Building Thermal Response Prediction. , 0, , .		0