

Tao Liu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Learning Based Active Power Regulation of Wind Turbines Considering Fatigue Reduction. IEEE Transactions on Industrial Informatics, 2022, 18, 405-414.	11.3	3
2	Time-Driven Adaptive Control of Switched Systems With Application to Electro-Hydraulic Unit. IEEE Transactions on Cybernetics, 2022, 52, 11906-11915.	9.5	21
3	Convex Relaxation of AC Optimal Power Flow With Flexible Transmission Line Impedances. IEEE Transactions on Power Systems, 2022, 37, 3129-3132.	6.5	2
4	Decentralized Event-Triggered Frequency Control With Guaranteed \mathcal{L}_2 -Gain for Multi-Area Power Systems. , 2021, 5, 373-378.		13
5	Stabilization to Exponential Input-to-State Stability via Aperiodic Intermittent Control. IEEE Transactions on Automatic Control, 2021, 66, 2913-2919.	5.7	53
6	Distributed MPC-based frequency control for multi-area power systems with energy storage. Electric Power Systems Research, 2021, 190, 106642.	3.6	11
7	Distributed Optimal Generation and Load-Side Control for Frequency Regulation in Power Systems. IEEE Transactions on Automatic Control, 2021, 66, 2724-2731.	5.7	8
8	Stability analysis of cyclic switched linear systems: An average cycle dwell time approach. Information Sciences, 2021, 544, 227-237.	6.9	23
9	Distributed Coordinated Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 312-323.	9.0	61
10	Distributed Model Predictive Frequency Control of Inverter-Based Networked Microgrids. IEEE Transactions on Energy Conversion, 2021, 36, 2623-2633.	5.2	7
11	Decentralized event-triggered frequency regulation for multi-area power systems. Automatica, 2021, 126, 109479.	5.0	11
12	Non-Disruptive MPC-Based Frequency and Voltage Control in Microgrids. , 2021, , .		0
13	System-Oriented Power Regulation Scheme for Wind Farms: The Quest for Uncertainty Management. IEEE Transactions on Power Systems, 2021, 36, 4259-4269.	6.5	5
14	Global Finite-Time Stability for Stochastic Impulsive Systems via Comparison Approach. , 2021, , .		2
15	Almost Sure Contraction for Stochastic Switched Impulsive Systems. IEEE Transactions on Automatic Control, 2021, 66, 5393-5400.	5.7	8
16	Microgrid Stability Enhancement by Incorporating BESS Droop Gain Tuning. , 2021, , .		2
17	Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3243-3251.	9.3	115
18	A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. IEEE Transactions on Power Systems, 2020, 35, 496-507.	6.5	59

#	ARTICLE	IF	CITATIONS
19	Distributed control of active distribution networks to support voltage control in subtransmission networks. International Journal of Electrical Power and Energy Systems, 2020, 117, 105715.	5.5	7
20	The optimal admittance matrix problem in DC networks. Electric Power Systems Research, 2020, 189, 106754.	3.6	1
21	Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. IEEE Transactions on Power Systems, 2020, 35, 4956-4959.	6.5	11
22	Uniform synchronization for chaotic systems via event-triggered aperiodic intermittent control. Asian Journal of Control, 2020, , .	3.0	6
23	Distributed inter-area oscillation damping control for power systems by using wind generators and load aggregators. International Journal of Electrical Power and Energy Systems, 2020, 123, 106201.	5.5	5
24	Closure to Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". IEEE Transactions on Power Systems, 2020, 35, 4975-4976.	6.5	2
25	Impact of DC Connection Topology on the Stability of Inverter-Based Microgrids. IEEE Transactions on Power Systems, 2019, 34, 3970-3972.	6.5	22
26	On Extension of Effective Resistance With Application to Graph Laplacian Definiteness and Power Network Stability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4415-4428.	5.4	16
27	Granular load-side frequency control with electric spring aggregators and leader-follower consensus. IET Generation, Transmission and Distribution, 2019, 13, 1700-1708.	2.5	4
28	Distributed MPC-Based Frequency Control in Networked Microgrids With Voltage Constraints. IEEE Transactions on Smart Grid, 2019, 10, 6343-6354.	9.0	48
29	Distributed Optimization for Multi-Time Slot Economic Dispatch. , 2019, , .		1
30	Review of Some Control Theory Results on Uniform Stability of Impulsive Systems. Mathematics, 2019, 7, 1186.	2.2	11
31	Fast Distributed Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 802-805.	6.5	84
32	State-in-mode analysis of the power flow Jacobian for static voltage stability. International Journal of Electrical Power and Energy Systems, 2019, 105, 671-678.	5.5	21
33	Event-triggered control via impulses for exponential stabilization of discrete-time delayed systems and networks. International Journal of Robust and Nonlinear Control, 2019, 29, 1613-1638.	3.7	43
34	Static Voltage Stability Analysis of Distribution Systems Based on Network-Load Admittance Ratio. IEEE Transactions on Power Systems, 2019, 34, 2270-2280.	6.5	44
35	Switched distributed load-side frequency control of power systems. International Journal of Electrical Power and Energy Systems, 2019, 105, 709-716.	5.5	7
36	Dynamic Modular Modeling of Smart Loads Associated With Electric Springs and Control. IEEE Transactions on Power Electronics, 2018, 33, 10071-10085.	7.9	18

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37	Input-to-state- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="script" \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:mi mathvariant="script" \rangle L \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -stability and criteria for a class of hybrid dynamical systems. Applied Mathematics and Computation, 2018, 326, 124-140.	2.2	73
38	Hierarchical Voltage Control of Weak Subtransmission Networks With High Penetration of Wind Power. IEEE Transactions on Power Systems, 2018, 33, 187-197.	6.5	19
39	Characterization of Cutsets in Networks With Application to Transient Stability Analysis of Power Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1261-1274.	3.7	11
40	Network-Based Analysis of Small-Disturbance Angle Stability of Power Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 901-912.	3.7	31
41	Distributed Secondary Frequency Control Algorithm Considering Storage Efficiency. IEEE Transactions on Smart Grid, 2018, 9, 6214-6228.	9.0	32
42	Input-to-state exponents and related ISS for delayed discrete-time systems with application to impulsive effects. International Journal of Robust and Nonlinear Control, 2018, 28, 640-660.	3.7	67
43	Stabilisation to input-to-state stability for continuous-time dynamical systems via event-triggered impulsive control with three levels of events. IET Control Theory and Applications, 2018, 12, 1167-1179.	2.1	77
44	Decentralized Periodic Event-Triggered Frequency Regulation for Multi-Area Power Systems. , 2018, , .		3
45	Distributed Control of Active Distribution Networks for Frequency Support. , 2018, , .		5
46	A Novel Consensus-Based Economic Dispatch for Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3920-3922.	9.0	87
47	Two-stage voltage control of subtransmission networks with high penetration of wind power. Control Engineering Practice, 2017, 62, 1-10.	5.5	11
48	A Distributed Framework for Stability Evaluation and Enhancement of Inverter-Based Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 3020-3034.	9.0	31
49	Distributed event-triggered control for asymptotic synchronization of dynamical networks. Automatica, 2017, 86, 199-204.	5.0	56
50	Exponential input-to-state stability under events for hybrid dynamical networks with coupling time-delays. Journal of the Franklin Institute, 2017, 354, 7476-7503.	3.4	7
51	Granulated load-side control of power systems with electric spring aggregators. , 2017, , .		7
52	Local stability of DC microgrids: A perspective of graph laplacians with self-loops. , 2017, , .		4
53	Switched distributed load-side frequency regulation for power systems. , 2016, , .		1
54	Fully distributed voltage control in subtransmission networks via virtual power plants. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
55	Non-Disruptive Load-Side Control for Frequency Regulation in Power Systems. IEEE Transactions on Smart Grid, 2016, 7, 2142-2153.	9.0	45
56	Distributed load-side frequency regulation for power systems. , 2016, , .		2
57	Event-triggered control for output synchronization of networks with incrementally-dissipative nodes. , 2016, , .		2
58	Input-to-state-K $\hat{\alpha}$, $\hat{\beta}$ -stability for a class of hybrid dynamical systems. , 2016, , .		0
59	Transient stability analysis of microgrids with a line-based model. , 2016, , .		3
60	Effects of rotational Inertia on power system damping and frequency transients. , 2015, , .		68
61	Coordinated Voltage Control of Weak Sub-transmission Networks Considering Wind Power Variability**The work described in this paper was fully supported by a grant from the Research Grants Council of the Hong Kong Special Administrative Region under Theme-based Research Scheme through Project No. T23-701/14-N. IFAC-PapersOnLine, 2015, 48, 1-6.	0.9	2
62	Output Synchronization of Dynamical Networks with Incrementally-Dissipative Nodes and Switching Topology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2312-2323.	5.4	45
63	Small-disturbance angle stability analysis of microgrids: A graph theory viewpoint. , 2015, , .		19
64	Distributed event-triggered control for output synchronization of dynamical networks with non-identical nodes. , 2014, , .		9
65	Incremental-dissipativity-based output synchronization of dynamical networks with switching topology. , 2014, , .		3
66	Exponential stability via event-triggered impulsive control for continuous-time dynamical systems. , 2014, , .		11
67	Stability of discrete-time delayed impulsive linear systems with application to multi-tracking. International Journal of Control, 2014, 87, 911-924.	1.9	16
68	Robust exponential input-to-state stability of impulsive systems with an application in micro-grids. Systems and Control Letters, 2014, 65, 64-73.	2.3	33
69	Stability via Hybrid-Event-Time Lyapunov Function and Impulsive Stabilization for Discrete-Time Delayed Switched Systems. SIAM Journal on Control and Optimization, 2014, 52, 1338-1365.	2.1	43
70	Input-to-state stability type comparison principles and input-to-state stability for discrete-time dynamical networks with time delays. International Journal of Robust and Nonlinear Control, 2013, 23, 450-472.	3.7	23
71	Synchronization of delayed dynamical networks with switching topologies. , 2013, , .		1
72	Distributed Event-Triggered Control for Synchronization of Dynamical Networks with Estimators*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 116-121.	0.4	11

#	ARTICLE	IF	CITATIONS
73	Synchronization of dynamical networks with distributed event-based communication. , 2012, , .		28
74	Global Bounded Synchronization of General Dynamical Networks With Nonidentical Nodes. IEEE Transactions on Automatic Control, 2012, 57, 2656-2662.	5.7	79
75	Synchronization of Dynamical Networks by Network Control. IEEE Transactions on Automatic Control, 2012, 57, 1574-1580.	5.7	41
76	Synchronization of Dynamical Networks With Nonidentical Nodes: Criteria and Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 584-594.	5.4	123
77	Impulsive Consensus for Complex Dynamical Networks with Nonidentical Nodes and Coupling Time-Delays. SIAM Journal on Control and Optimization, 2011, 49, 315-338.	2.1	83
78	Incremental-Dissipativity-Based Synchronization of Interconnected Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8890-8895.	0.4	5
79	Stability of dynamical networks with non-identical nodes: A multiple \mathbb{V} -Lyapunov function method. Automatica, 2011, 47, 2615-2625.	5.0	70
80	Global Synchronization of Dynamical Networks with Non-identical Nodes: a Multiple \mathbb{V} -Lyapunov Function Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 137-142.	0.4	1
81	Synchronization of Discrete-time CDNs via Delayed Impulsive Control*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 143-148.	0.4	2
82	Global Synchronization of Dynamical Networks with Time Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 161-166.	0.4	1
83	Passivity-based output synchronization of dynamical networks with non-identical nodes. , 2010, , .		56
84	Exponential Synchronization of Complex Delayed Dynamical Networks With Switching Topology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2967-2980.	5.4	117
85	Synchronization of dynamical networks by network control. , 2009, , .		9
86	Synchronization of complex delayed dynamical networks with nonlinearly coupled nodes. Chaos, Solitons and Fractals, 2009, 40, 1506-1519.	5.1	68
87	Synchronization of complex dynamical networks with switching topology: A switched system point of view. Automatica, 2009, 45, 2502-2511.	5.0	278
88	Controlled synchronization of complex dynamical networks with nonlinear nodes and couplings. , 2009, , .		1
89	Synchronization of complex switched delay dynamical networks with simultaneously diagonalizable coupling matrices. Journal of Control Theory and Applications, 2008, 6, 351-356.	0.8	14
90	Exponential synchronization of complex delayed dynamical networks with general topology. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 643-652.	2.6	45

#	ARTICLE	IF	CITATIONS
91	Stability of Solutions for Stochastic Impulsive Systems via Comparison Approach. IEEE Transactions on Automatic Control, 2008, 53, 2128-2133.	5.7	140
92	Uniform Stability of Discrete Delay Systems and Synchronization of Discrete Delay Dynamical Networks via Razumikhin Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2795-2805.	5.4	34
93	Exponential synchronization of complex delayed dynamical networks with general topology. , 2007, , .		0
94	Robust impulsive synchronization of uncertain dynamical networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1431-1441.	0.1	260