

Tao Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4171934/publications.pdf>

Version: 2024-02-01

94
papers

3,071
citations

147566

31
h-index

174990

52
g-index

94
all docs

94
docs citations

94
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization of complex dynamical networks with switching topology: A switched system point of view. Automatica, 2009, 45, 2502-2511.	3.0	278
2	Robust impulsive synchronization of uncertain dynamical networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1431-1441.	0.1	260
3	Stability of Solutions for Stochastic Impulsive Systems via Comparison Approach. IEEE Transactions on Automatic Control, 2008, 53, 2128-2133.	3.6	140
4	Synchronization of Dynamical Networks With Nonidentical Nodes: Criteria and Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 584-594.	3.5	123
5	Exponential Synchronization of Complex Delayed Dynamical Networks With Switching Topology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2967-2980.	3.5	117
6	Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3243-3251.	5.9	115
7	A Novel Consensus-Based Economic Dispatch for Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3920-3922.	6.2	87
8	Fast Distributed Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 802-805.	4.6	84
9	Impulsive Consensus for Complex Dynamical Networks with Nonidentical Nodes and Coupling Time-Delays. SIAM Journal on Control and Optimization, 2011, 49, 315-338.	1.1	83
10	Global Bounded Synchronization of General Dynamical Networks With Nonidentical Nodes. IEEE Transactions on Automatic Control, 2012, 57, 2656-2662.	3.6	79
11	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.	1.2	77
12	Input-to-state-stability and criteria for a class of hybrid dynamical systems. Applied Mathematics and Computation, 2018, 326, 124-140.	1.4	73
13	Stability of dynamical networks with non-identical nodes: A multiple Lyapunov function method. Automatica, 2011, 47, 2615-2625.	3.0	70
14	Synchronization of complex delayed dynamical networks with nonlinearly coupled nodes. Chaos, Solitons and Fractals, 2009, 40, 1506-1519.	2.5	68
15	Effects of rotational Inertia on power system damping and frequency transients. , 2015, , .		68
16	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.	2.1	67
17	Distributed Coordinated Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 312-323.	6.2	61
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.	4.6	59

#	ARTICLE	IF	CITATIONS
19	Passivity-based output synchronization of dynamical networks with non-identical nodes. , 2010, , .		56
20	Distributed event-triggered control for asymptotic synchronization of dynamical networks. Automatica, 2017, 86, 199-204.	3.0	56
21	Stabilization to Exponential Input-to-State Stability via Aperiodic Intermittent Control. IEEE Transactions on Automatic Control, 2021, 66, 2913-2919.	3.6	53
22	Distributed MPC-Based Frequency Control in Networked Microgrids With Voltage Constraints. IEEE Transactions on Smart Grid, 2019, 10, 6343-6354.	6.2	48
23	Exponential synchronization of complex delayed dynamical networks with general topology. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 643-652.	1.2	45
24	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.	3.5	45
25	Non-Disruptive Load-Side Control for Frequency Regulation in Power Systems. IEEE Transactions on Smart Grid, 2016, 7, 2142-2153.	6.2	45
26	Static Voltage Stability Analysis of Distribution Systems Based on Network-Load Admittance Ratio. IEEE Transactions on Power Systems, 2019, 34, 2270-2280.	4.6	44
27	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.	1.1	43
28	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.	2.1	43
29	Synchronization of Dynamical Networks by Network Control. IEEE Transactions on Automatic Control, 2012, 57, 1574-1580.	3.6	41
30	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.	3.5	34
31	Robust exponential input-to-state stability of impulsive systems with an application in micro-grids. Systems and Control Letters, 2014, 65, 64-73.	1.3	33
32	Distributed Secondary Frequency Control Algorithm Considering Storage Efficiency. IEEE Transactions on Smart Grid, 2018, 9, 6214-6228.	6.2	32
33	A Distributed Framework for Stability Evaluation and Enhancement of Inverter-Based Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 3020-3034.	6.2	31
34	Network-Based Analysis of Small-Disturbance Angle Stability of Power Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 901-912.	2.4	31
35	Synchronization of dynamical networks with distributed event-based communication. , 2012, , .		28
36	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.	2.1	23

#	ARTICLE	IF	CITATIONS
37	Stability analysis of cyclic switched linear systems: An average cycle dwell time approach. Information Sciences, 2021, 544, 227-237.	4.0	23
38	Impact of DG Connection Topology on the Stability of Inverter-Based Microgrids. IEEE Transactions on Power Systems, 2019, 34, 3970-3972.	4.6	22
39	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.	3.3	21
40	Time-Driven Adaptive Control of Switched Systems With Application to Electro-Hydraulic Unit. IEEE Transactions on Cybernetics, 2022, 52, 11906-11915.	6.2	21
41	Small-disturbance angle stability analysis of microgrids: A graph theory viewpoint. , 2015, , .		19
42	Hierarchical Voltage Control of Weak Subtransmission Networks With High Penetration of Wind Power. IEEE Transactions on Power Systems, 2018, 33, 187-197.	4.6	19
43	Dynamic Modular Modeling of Smart Loads Associated With Electric Springs and Control. IEEE Transactions on Power Electronics, 2018, 33, 10071-10085.	5.4	18
44	Stability of discrete-time delayed impulsive linear systems with application to multi-tracking. International Journal of Control, 2014, 87, 911-924.	1.2	16
45	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.	3.5	16
46	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
47	Decentralized Event-Triggered Frequency Control With Guaranteed L_2 -Gain for Multi-Area Power Systems. , 2021, 5, 373-378.		13
48	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
49	Exponential stability via event-triggered impulsive control for continuous-time dynamical systems. , 2014, , .		11
50	Two-stage voltage control of subtransmission networks with high penetration of wind power. Control Engineering Practice, 2017, 62, 1-10.	3.2	11
51	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.	2.4	11
52	Review of Some Control Theory Results on Uniform Stability of Impulsive Systems. Mathematics, 2019, 7, 1186.	1.1	11
53	Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. IEEE Transactions on Power Systems, 2020, 35, 4956-4959.	4.6	11
54	Distributed MPC-based frequency control for multi-area power systems with energy storage. Electric Power Systems Research, 2021, 190, 106642.	2.1	11

#	ARTICLE	IF	CITATIONS
55	Decentralized event-triggered frequency regulation for multi-area power systems. <i>Automatica</i> , 2021, 126, 109479.	3.0	11
56	Synchronization of dynamical networks by network control. , 2009, , .		9
57	Distributed event-triggered control for output synchronization of dynamical networks with non-identical nodes. , 2014, , .		9
58	Distributed Optimal Generation and Load-Side Control for Frequency Regulation in Power Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2724-2731.	3.6	8
59	Almost Sure Contraction for Stochastic Switched Impulsive Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 5393-5400.	3.6	8
60	Exponential input-to-state stability under events for hybrid dynamical networks with coupling time-delays. <i>Journal of the Franklin Institute</i> , 2017, 354, 7476-7503.	1.9	7
61	Granulated load-side control of power systems with electric spring aggregators. , 2017, , .		7
62	Switched distributed load-side frequency control of power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 105, 709-716.	3.3	7
63	Distributed control of active distribution networks to support voltage control in subtransmission networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 117, 105715.	3.3	7
64	Distributed Model Predictive Frequency Control of Inverter-Based Networked Microgrids. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2623-2633.	3.7	7
65	Uniform synchronization for chaotic systems via event-triggered aperiodic intermittent control. <i>Asian Journal of Control</i> , 2020, , .	1.9	6
66	Incremental-Dissipativity-Based Synchronization of Interconnected Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 8890-8895.	0.4	5
67	Distributed Control of Active Distribution Networks for Frequency Support. , 2018, , .		5
68	Distributed inter-area oscillation damping control for power systems by using wind generators and load aggregators. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 123, 106201.	3.3	5
69	System-Oriented Power Regulation Scheme for Wind Farms: The Quest for Uncertainty Management. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 4259-4269.	4.6	5
70	Local stability of DC microgrids: A perspective of graph laplacians with self-loops. , 2017, , .		4
71	Granular load-side frequency control with electric spring aggregators and leader-follower consensus. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 1700-1708.	1.4	4
72	Incremental-dissipativity-based output synchronization of dynamical networks with switching topology. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
73	Fully distributed voltage control in subtransmission networks via virtual power plants. , 2016, , .		3
74	Transient stability analysis of microgrids with a line-based model. , 2016, , .		3
75	Decentralized Periodic Event-Triggered Frequency Regulation for Multi-Area Power Systems. , 2018, , .		3
76	Intelligent Learning Based Active Power Regulation of Wind Turbines Considering Fatigue Reduction. IEEE Transactions on Industrial Informatics, 2022, 18, 405-414.	7.2	3
77	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
78	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.	0.5	2
79	Distributed load-side frequency regulation for power systems. , 2016, , .		2
80	Event-triggered control for output synchronization of networks with incrementally-dissipative nodes. , 2016, , .		2
81	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.	4.6	2
82	Global Finite-Time Stability for Stochastic Impulsive Systems via Comparison Approach. , 2021, , .		2
83	Microgrid Stability Enhancement by Incorporating BESS Droop Gain Tuning. , 2021, , .		2
84	Convex Relaxation of AC Optimal Power Flow With Flexible Transmission Line Impedances. IEEE Transactions on Power Systems, 2022, 37, 3129-3132.	4.6	2
85	Controlled synchronization of complex dynamical networks with nonlinear nodes and couplings. , 2009, , .		1
86	Global Synchronization of Dynamical Networks with Non-identical Nodes: a Multiple V-Lyapunov Function Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 137-142.	0.4	1
87	Global Synchronization of Dynamical Networks with Time Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 161-166.	0.4	1
88	Synchronization of delayed dynamical networks with switching topologies. , 2013, , .		1
89	Switched distributed load-side frequency regulation for power systems. , 2016, , .		1
90	Distributed Optimization for Multi-Time Slot Economic Dispatch. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
91	The optimal admittance matrix problem in DC networks. Electric Power Systems Research, 2020, 189, 106754.	2.1	1
92	Exponential synchronization of complex delayed dynamical networks with general topology. , 2007, , .		0
93	Input-to-state-K $\hat{\alpha}$, [*] -stability for a class of hybrid dynamical systems. , 2016, , .		0
94	Non-Disruptive MPC-Based Frequency and Voltage Control in Microgrids. , 2021, , .		0