

Tengfei Liu

List of Publications by Year in descending order

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47
papers

1,922
citations

361413

20
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315739

38
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48
all docs

48
docs citations

48
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed formation control of nonholonomic mobile robots without global position measurements. <i>Automatica</i> , 2013, 49, 592-600.	5.0	330
2	A Small-Gain Approach to Robust Event-Triggered Control of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2072-2085.	5.7	312
3	Event-based control of nonlinear systems with partial state and output feedback. <i>Automatica</i> , 2015, 53, 10-22.	5.0	190
4	Lyapunov formulation of ISS cyclic-small-gain in continuous-time dynamical networks. <i>Automatica</i> , 2011, 47, 2088-2093.	5.0	132
5	Distributed Output-Feedback Control of Nonlinear Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2912-2917.	5.7	128
6	A sector bound approach to feedback control of nonlinear systems with state quantization. <i>Automatica</i> , 2012, 48, 145-152.	5.0	125
7	Small-Gain Based Output-Feedback Controller Design for a Class of Nonlinear Systems With Actuator Dynamic Quantization. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1326-1332.	5.7	73
8	Distributed nonlinear control of mobile autonomous multi-agents. <i>Automatica</i> , 2014, 50, 1075-1086.	5.0	73
9	Decentralized output-feedback control of large-scale nonlinear systems with sensor noise. <i>Automatica</i> , 2012, 48, 2560-2568.	5.0	58
10	Small-gain theory for stability and control of dynamical networks: A Survey. <i>Annual Reviews in Control</i> , 2018, 46, 58-79.	7.9	51
11	Distributed containment control of multi-agent systems with velocity and acceleration saturations. <i>Automatica</i> , 2020, 117, 108992.	5.0	34
12	Input-to-state stabilization of nonlinear discrete-time systems with event-triggered controllers. <i>Systems and Control Letters</i> , 2017, 103, 16-22.	2.3	33
13	Event-triggered input-to-state stabilization of nonlinear systems subject to disturbances and dynamic uncertainties. <i>Automatica</i> , 2019, 108, 108488.	5.0	31
14	Event-Triggered Stabilization of a Class of Nonlinear Time-Delay Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 421-428.	5.7	29
15	A survey of recent results in quantized and event-based nonlinear control. <i>International Journal of Automation and Computing</i> , 2015, 12, 455-466.	4.5	28
16	Distributed Optimization of Nonlinear Multiagent Systems: A Small-Gain Approach. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 676-691.	5.7	28
17	Quantized stabilization of strict-feedback nonlinear systems based on ISS cyclic-small-gain theorem. <i>Mathematics of Control, Signals, and Systems</i> , 2012, 24, 75-110.	2.3	27
18	Lyapunov formulation of the large-scale, ISS cyclic-small-gain theorem: The discrete-time case. <i>Systems and Control Letters</i> , 2012, 61, 266-272.	2.3	24

#	ARTICLE	IF	CITATIONS
19	Lyapunov formulation of the ISS cyclic-small-gain theorem for hybrid dynamical networks. <i>Nonlinear Analysis: Hybrid Systems</i> , 2012, 6, 988-1001.	3.5	23
20	Systematic Design of Robust Event-Triggered State and Output Feedback Controllers for Uncertain Nonholonomic Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 213-228.	5.7	22
21	Decentralized event-triggered control of large-scale nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 1451-1466.	3.7	19
22	Distributed control of multi-agent systems with pulse-width-modulated controllers. <i>Automatica</i> , 2020, 119, 109020.	5.0	17
23	Robust Event-Triggered Control of Nonlinear Systems. <i>Research on Intelligent Manufacturing</i> , 2020, , .	0.3	17
24	Preface "Special Issue on New Directions in Nonlinear and Distributed Control. <i>Journal of Systems Science and Complexity</i> , 2018, 31, 1-3.	2.8	12
25	A Nonlinear Small-Gain Theorem for Large-Scale Infinite-Dimensional Systems. <i>Journal of Systems Science and Complexity</i> , 2018, 31, 188-199.	2.8	11
26	Cooperative Formation Control Under Switching Topology: An Experimental Case Study in Multirotors. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 6141-6153.	9.5	11
27	An IOS Small-Gain Theorem for Large-Scale Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 1295-1300.	5.7	8
28	Further results on quantized stabilization of nonlinear cascaded systems with dynamic uncertainties. <i>Science China Information Sciences</i> , 2016, 59, 1.	4.3	7
29	Coordinated formation control of wheeled mobile robots with switching communication topologies. <i>IET Control Theory and Applications</i> , 2019, 13, 3164-3173.	2.1	7
30	A new look at distributed optimal output agreement of multi-agent systems. <i>Automatica</i> , 2022, 136, 110053.	5.0	4
31	A junction-by-junction feedback-based strategy with convergence analysis for dynamic traffic assignment. <i>Science China Information Sciences</i> , 2016, 59, 1-17.	4.3	3
32	Robust Event-Triggered Control Subject to External Disturbance * *This work was supported in part by NSF grant ECCS-1501044, in part by NSFC grants 61374042, 61522305, 61633007 and 61533007, in part by the Fundamental Research Funds for the Central Universities under Grants N130108001 and N140805001 in China, and in part by State Key Laboratory of Intelligent Control and Decision of Complex Systems at BIT.. <i>IFAC-PapersOnLine</i> , 2017, 50, 7899-7904.	0.9	3
33	Distributed Optimization of Nonlinear Multi-Agent Systems: A Small-Gain Approach. , 2019, , .		3
34	New Results in Stabilization of Uncertain Nonholonomic Systems: An Event-Triggered Control Approach. <i>Journal of Systems Science and Complexity</i> , 2021, 34, 1953-1972.	2.8	3
35	Safety Control of a Class of Fully Actuated Systems Subject to Uncertain Actuation Dynamics. <i>Journal of Systems Science and Complexity</i> , 2022, 35, 543-558.	2.8	3
36	A nonlinear small-gain approach to distributed formation control of nonholonomic mobile robots. , 2013, , .		2

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37	Robust state agreement of nonlinear multi-agent systems with measurement and actuator disturbances. International Journal of Robust and Nonlinear Control, 2022, 32, 1143-1161.	3.7	2
38	Nonlinear integral control with event-triggered feedback: Unknown decay rates, zeno-freeness, and asymptotic convergence. Automatica, 2022, 137, 110028.	5.0	2
39	Policy Iteration and Event-Triggered Robust Adaptive Dynamic Programming for Large-Scale Systems. IFAC-PapersOnLine, 2021, 54, 376-381.	0.9	2
40	A cyclic-small-gain approach to distributed output-feedback control of multi-agent nonlinear systems. , 2012, , .		1
41	Measurement feedback control of nonlinear systems: a small-gain approach. Journal of Control and Decision, 2020, 7, 64-89.	1.6	1
42	New Results in Stabilization of Uncertain Nonholonomic Systems: A Self-Triggered Control Approach. , 2021, , .		1
43	Systematic design of supervisory controllers for a class of uncertain nonlinearly parameterized systems. Automatica, 2022, 135, 109991.	5.0	1
44	Robust stability of a dynamic traffic assignment model with uncertainties. , 2013, , .		0
45	Robust event-based control of nonlinear time-delay systems with partial state feedback. Advanced Control for Applications, 2020, 2, e35.	1.7	0
46	Extremum Seeking for Nonlinear Uncertain Systems: A Small-Gain Synthesis. IFAC-PapersOnLine, 2020, 53, 5411-5416.	0.9	0
47	Robust Output Agreement of Multi-Agent Systems with Flexible Topologies. IFAC-PapersOnLine, 2020, 53, 5647-5652.	0.9	0