Xiangze Lin

List of Publications by Year in descending order

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65 papers	1,987 citations	394421 19 h-index	254184 43 g-index
65 all docs	65 docs citations	65 times ranked	1377 citing authors

#	Article	IF	Citations
1	Finite-time consensus algorithm for multi-agent systems with double-integrator dynamics. Automatica, 2011, 47, 1706-1712.	5.0	788
2	Finite-time boundedness and L2-gain analysis for switched delay systems with norm-bounded disturbance. Applied Mathematics and Computation, 2011, 217, 5982-5993.	2.2	168
3	Finiteâ€time formation control of multiagent systems via dynamic output feedback. International Journal of Robust and Nonlinear Control, 2013, 23, 1609-1628.	3.7	82
4	Finiteâ€time stability and finiteâ€time weighted L ₂ â€gain analysis for switched systems with timeâ€varying delay. IET Control Theory and Applications, 2013, 7, 1058-1069.	2.1	82
5	Finite-time boundedness and finite-time l2 gain analysis of discrete-time switched linear systems with average dwell time. Journal of the Franklin Institute, 2013, 350, 911-928.	3.4	63
6	Smooth output feedback stabilization for a class of nonlinear systems with timeâ€varying powers. International Journal of Robust and Nonlinear Control, 2017, 27, 5113-5128.	3.7	62
7	Smooth output feedback stabilization of a class of planar switched nonlinear systems under arbitrary switchings. Automatica, 2017, 82, 314-318.	5.0	53
8	Finite-time stability of switched nonlinear systems with finite-time unstable subsystems. Journal of the Franklin Institute, 2015, 352, 1192-1214.	3.4	52
9	Finite-time stability and stabilization of switched linear systems. , 2009, , .		43
10	Finiteâ€time stability of switched linear systems with subsystems which are not finiteâ€time stable. IET Control Theory and Applications, 2014, 8, 1137-1146.	2.1	40
11	Finite-time Hâˆž control for a class of nonlinear system with time-varying delay. Neurocomputing, 2015, 149, 1481-1489.	5.9	38
12	Dynamic modeling and error analysis of planar flexible multilink mechanism with clearance and spindle-bearing structure. Mechanism and Machine Theory, 2019, 131, 234-260.	4.5	35
13	Finite-time stabilization of switched linear systems with nonlinear saturating actuators. Journal of the Franklin Institute, 2014, 351, 1464-1482.	3.4	34
14	Finite-time boundedness for switched systems with sector bounded nonlinearity and constant time delay. Applied Mathematics and Computation, 2016, 274, 25-40.	2.2	31
15	Outputâ€feedback stabilization for planar outputâ€constrained switched nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 1819-1830.	3.7	30
16	Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4040-4047.	9.3	28
17	Finite-time stabilization of switched linear time-delay systems with saturating actuators. Applied Mathematics and Computation, 2017, 299, 66-79.	2.2	25
18	Finite-time output feedback stabilization of planar switched systems with/without an output constraint. Automatica, 2021, 131, 109728.	5.0	24

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19	An automatic splitting method for the adhesive pigletsâ€™ gray scale image based on the ellipse shape feature. Computers and Electronics in Agriculture, 2016, 120, 53-62.	7.7	23
20	Active finite-time disturbance rejection control for attitude tracking of quad-rotor under input saturation. Journal of the Franklin Institute, 2020, 357, 11153-11170.	3.4	22
21	Formation control for multiquadrotor aircraft: Connectivity preserving and collision avoidance. International Journal of Robust and Nonlinear Control, 2020, 30, 2352-2366.	3.7	22
22	Investigation into the vibration characteristics of agricultural wheeled tractor-implement system with hydro-pneumatic suspension on the front axle. Biosystems Engineering, 2019, 186, 14-33.	4.3	20
23	Smooth output feedback stabilization for a class of high-order switched nonlinear systems. Nonlinear Analysis: Hybrid Systems, 2018, 29, 34-53.	3.5	19
24	Finiteâ€time boundedness of switched systems with timeâ€varying delays via sampledâ€data control. International Journal of Robust and Nonlinear Control, 2020, 30, 2953-2976.	3.7	18
25	Globally smooth output feedback stabilization of a class of planar switched systems with average dwell time. Nonlinear Analysis: Hybrid Systems, 2017, 24, 159-170.	3.5	17
26	An improved tuning method of fractional order proportional differentiation (FOPD) controller for the path tracking control of tractors. Biosystems Engineering, 2013, 116, 478-486.	4.3	15
27	Finite-Time Output Feedback Stabilization for a Class of Output-Constrained Planar Switched Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 164-168.	3.0	15
28	Finite-time stabilization of input-delay switched systems. Applied Mathematics and Computation, 2020, 375, 125062.	2.2	13
29	Output feedback stabilization for planar switched nonlinear systems with asymmetric output constraints. Nonlinear Analysis: Hybrid Systems, 2021, 40, 101005.	3.5	11
30	Finiteâ€time stabilisation of switched linear inputâ€delay systems via saturating actuators. IET Control Theory and Applications, 2018, 12, 2127-2137.	2.1	9
31	The Application of Fractional-Order PI Control Algorithm to the PMSM Speed-Adjusting System. , 2007, , 660-669.		8
32	Finite-time stabilization of high-order output-constrained switched systems via state feedback. Applied Mathematics and Computation, 2021, 403, 125935.	2.2	8
33	State feedback stabilisation of switched nonâ€linear systems with asymmetric output constraints. IET Control Theory and Applications, 2020, 14, 1837-1844.	2.1	8
34	An improved thermal model for characteristics analysis of multi-link ultra-precision press system. Journal of Mechanical Science and Technology, 2018, 32, 291-313.	1.5	7
35	Thermal characteristics analysis and error prediction for lubricated multi-link high-speed precision presses. Journal of Mechanical Science and Technology, 2019, 33, 2537-2559.	1.5	7
36	Finite-time feedback stabilization of a class of input-delay systems with saturating actuators via digital control. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1281-1290.	13.1	7

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37	Set stabilization of Chuaâ€™s circuit via piece-wise linear feedbacks. Chaos, Solitons and Fractals, 2005, 26, 571-579.	5.1	6
38	Finite-time boundedness and finite-time weighted L₂-gain analysis for a class of neutral type switched systems with time-varying delays. International Journal of Systems Science, 2019, 50, 1703-1717.	5.5	6
39	Stabilization of planar switched systems with an output constraint via output feedback. ISA Transactions, 2022, 122, 198-204.	5.7	5
40	Smooth output feedback stabilization for nonlinear systems with time-varying powers**This work was supported by the National Chiao Tung University Short Term Research Scholarship funded by The Ministry of Education under Taiwanâ€™s 2015 Global Networking Talent Plan; and the Ministry of Science and Technology (MOST), Taipei, under grants NSC 102-2221-E-009-063-, MOST 103-2221- E-009-055-, and MOST 104-2221-E-009-075-.. IFAC-PapersOnLine, 2016, 49, 939-944.	0.9	4
41	Stability of switched nonâ€linear systems: an outputâ€toâ€state point of view. IET Control Theory and Applications, 2016, 10, 485-492.	2.1	4
42	Smooth state feedback stabilization for a class of planar switched nonlinear systems under arbitrary switching. , 2016, , .		4
43	Simulation of the Vibration Characteristics for Agricultural Wheeled Tractor with Implement and Front Axle Hydropneumatic Suspension. Shock and Vibration, 2019, 2019, 1-19.	0.6	4
44	Accuracy improvement of positioning data in greenhouse for agricultural machinery via optimisation algorithm. Journal of Engineering, 2019, 2019, 547-551.	1.1	4
45	State-Feedback Stabilization for High-Order Output-Constrained Switched Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7401-7410.	9.3	4
46	Finite Time Set Stabilization of Chua's Chaotic System. , 2007, , .		3
47	Set finite-time stability of a class of switched systems. , 2010, , .		3
48	Finite-time feedback control of an input-delay system with nonlinear saturating actuators. Transactions of the Institute of Measurement and Control, 2018, 40, 3059-3067.	1.7	3
49	Finite-time stabilization of switched neutral systems with time-varying delays via sampled-data control. Journal of the Franklin Institute, 2020, 357, 7658-7679.	3.4	3
50	Finite-time bounded sampled-data control of switched time-delay systems with sector bounded nonlinearity. Chaos, Solitons and Fractals, 2021, 153, 111470.	5.1	3
51	Design of a Wireless Sensor Network for Farmland Monitoring. , 2010, , .		1
52	Global stabilization of switched nonlinear systems under arbitrary switchings via smooth output feedback. , 2017, , .		1
53	Finite-time boundedness analysis for a class of neutral type switched systems with time-varying delays. , 2018, , .		1
54	Finite-Time Feedback Stabilization of an Input-Delay System via Linear Sampled-Data Control. , 2018, , .		1

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55	Feedback stabilization of unstable periodic orbits for chaotic passive compass-like biped robot. , 2008, , .		0
56	The stability of a class of network congestion control algorithms based on optimization theorem. , 2008, , .		0
57	Set stabilization of nonholonomic chained form systems. , 2008, , .		0
58	State feedback stabilization of invariant sets of switched systems. , 2008, , .		0
59	New impact-based method for measuring the velocity of solid granules. , 2009, , .		0
60	Finite time control of a boiler-turbine system. , 2009, , .		0
61	The parameters design of signal processing circuit for crop canopy spectrometer based on active light source. , 2014, , .		0
62	Finite-time stability analysis of switched nonlinear systems with finite-time unstable subsystems. , 2014, , .		0
63	Finite-time control of input-delay system with nonlinear saturating actuator. , 2016, , .		0
64	Effect of Parameters of Thermal-Rate Treatment of Melt on Iron-Containing Phases in Alloy Al â€“ 15% Si â€“ 2.7% Fe. Metal Science and Heat Treatment, 2016, 58, 405-410.	0.6	0
65	Classification of rice planthoppers based on shape descriptors. Journal of Engineering, 2019, 2019, 8378-8382.	1.1	0