Xudong Zhao

List of Publications by Year
in descending order

132 papers	9,281 citations	57758 44 h-index	39675 94 g-index
133 all docs	133 docs citations	133 times ranked	4157 citing authors

#	Article	IF	Citations
1	Stability and Stabilization of Switched Linear Systems With Mode-Dependent Average Dwell Time. IEEE Transactions on Automatic Control, 2012, 57, 1809-1815.	5.7	971
2	Stability of switched positive linear systems with average dwell time switching. Automatica, 2012, 48, 1132-1137.	5.0	596
3	Fault-tolerant control of Markovian jump stochastic systems via the augmented sliding mode observer approach. Automatica, 2014, 50, 1825-1834.	5.0	515
4	Adaptive tracking control for switched stochastic nonlinear systems with unknown actuator dead-zone. Automatica, 2015, 60, 193-200.	5.0	381
5	Adaptive tracking control for a class of uncertain switched nonlinear systems. Automatica, 2015, 52, 185-191.	5.0	359
6	Switching Stabilization for a Class of Slowly Switched Systems. IEEE Transactions on Automatic Control, 2015, 60, 221-226.	5.7	295
7	New Results on Stability of Slowly Switched Systems: A Multiple Discontinuous Lyapunov Function Approach. IEEE Transactions on Automatic Control, 2017, 62, 3502-3509.	5.7	288
8	Fault-Tolerant Control for Nonlinear Markovian Jump Systems via Proportional and Derivative Sliding Mode Observer Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 2755-2764.	5.4	276
9	Novel Stability Criteria for T--S Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2014, 22, 313-323.	9.8	214
10	Improved results on stability of continuous-time switched positive linear systems. Automatica, 2014, 50, 614-621.	5.0	198
11	Stability of a class of switched positive linear time€delay systems. International Journal of Robust and Nonlinear Control, 2013, 23, 578-589.	3.7	185
12	Stabilization for a Class of Switched Nonlinear Systems With Novel Average Dwell Time Switching by T€"S Fuzzy Modeling. IEEE Transactions on Cybernetics, 2016, 46, 1952-1957.	9.5	185
13	Adaptive Fuzzy Hierarchical Sliding-Mode Control for a Class of MIMO Nonlinear Time-Delay Systems With Input Saturation. IEEE Transactions on Fuzzy Systems, 2017, 25, 1062-1077.	9.8	175
14	Fuzzy Adaptive Control Design and Discretization for a Class of Nonlinear Uncertain Systems. IEEE Transactions on Cybernetics, 2016, 46, 1476-1483.	9.5	167
15	Optimal control of Boolean control networks with average cost: A policy iteration approach. Automatica, 2019, 100, 378-387.	5.0	146
16	New Stability and Stabilization Conditions of Switched Systems with Mode-Dependent Average Dwell Time. Circuits, Systems, and Signal Processing, 2017, 36, 82-98.	2.0	138
17	Fuzzy-Approximation-Based Adaptive Output-Feedback Control for Uncertain Nonsmooth Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3847-3859.	9.8	138
18	Robust Control of Continuous-Time Systems With State-Dependent Uncertainties and Its Application to Electronic Circuits. IEEE Transactions on Industrial Electronics, 2014, 61, 4161-4170.	7.9	133

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19	Intelligent Tracking Control for a Class of Uncertain High-Order Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1976-1982.	11.3	133
20	Control of Switched Nonlinear Systems via Tâ€"S Fuzzy Modeling. IEEE Transactions on Fuzzy Systems, 2016, 24, 235-241.	9.8	130
21	Improved stability criteria for switched positive linear systems with average dwell time switching. Journal of the Franklin Institute, 2017, 354, 3472-3484.	3.4	129
22	Adaptive Neural Control of MIMO Nonstrict-Feedback Nonlinear Systems With Time Delay. IEEE Transactions on Cybernetics, 2016, 46, 1337-1349.	9.5	125
23	Static output feedback control of nonhomogeneous Markovian jump systems with asynchronous time delays. Information Sciences, 2017, 399, 219-238.	6.9	120
24	Stability Analysis and Delay Control for Switched Positive Linear Systems. IEEE Transactions on Automatic Control, 2018, 63, 2184-2190.	5.7	116
25	Multiple-Mode Observer Design for a Class of Switched Linear Systems. IEEE Transactions on Automation Science and Engineering, 2015, 12, 272-280.	5.2	115
26	Observer-based fuzzy adaptive stabilization of uncertain switched stochastic nonlinear systems with input quantization. Journal of the Franklin Institute, 2019, 356, 1789-1809.	3.4	109
27	Asynchronously switched control of a class of slowly switched linear systems. Systems and Control Letters, 2012, 61, 1151-1156.	2.3	108
28	Delay-dependent observer-based finite-time control for switched systems with time-varying delay. Nonlinear Analysis: Hybrid Systems, 2012, 6, 885-898.	3.5	100
29	Polynomial Fuzzy-Model-Based Control Systems: Stability Analysis via Approximated Membership Functions Considering Sector Nonlinearity of Control Input. IEEE Transactions on Fuzzy Systems, 2015, 23, 2202-2214.	9.8	97
30	Finite-time stabilization and boundedness of switched linear system under state-dependent switching. Journal of the Franklin Institute, 2013, 350, 541-555.	3.4	96
31	Adaptive Neural Hierarchical Sliding Mode Control of Nonstrict-Feedback Nonlinear Systems and an Application to Electronic Circuits. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1394-1404.	9.3	86
32	Adaptive Neural Tracking Control for Switched High-Order Stochastic Nonlinear Systems. IEEE Transactions on Cybernetics, 2017, 47, 3088-3099.	9.5	85
33	Finite-time H_∞ control of switched systems with mode-dependent average dwell time. Journal of the Franklin Institute, 2014, 351, 1301-1315.	3.4	81
34	A new control method for state-constrained nonlinear switched systems with application to chemical process. International Journal of Control, 2015, 88, 1693-1701.	1.9	78
35	State-dependent switching control of switched positive fractional-order systems. ISA Transactions, 2016, 62, 103-108.	5.7	75
36	A Stochastic Sampling Consensus Protocol of Networked Eulerâ€"Lagrange Systems With Application to Two-Link Manipulator. IEEE Transactions on Industrial Informatics, 2015, 11, 907-914.	11.3	74

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37	Asynchronous finite-time control for switched linear systems via mode-dependent dynamic state-feedback. Nonlinear Analysis: Hybrid Systems, 2013, 8, 109-120.	3.5	66
38	Stabilization of switched linear systems via admissible edge-dependent switching signals. Nonlinear Analysis: Hybrid Systems, 2018, 29, 100-109.	3.5	63
39	Weighted H_∞ performance analysis of switched linear systems with mode-dependent average dwell time. International Journal of Systems Science, 2013, 44, 2130-2139.	5.5	61
40	Consensus of Euler–Lagrange Systems Networked by Sampled-Data Information with Probabilistic Time Delays. IEEE Transactions on Cybernetics, 2015, 45, 1126-1133.	9.5	59
41	Distributed Consensus of Multiple Euler–Lagrange Systems Networked by Sampled-Data Information With Transmission Delays and Data Packet Dropouts. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1440-1450.	5.2	54
42	Output-Feedback Control for T–S Fuzzy Delta Operator Systems With Time-Varying Delays via an Input–Output Approach. IEEE Transactions on Fuzzy Systems, 2015, 23, 1100-1112.	9.8	50
43	Absolute exponential stability and stabilization of switched nonlinear systems. Systems and Control Letters, 2014, 66, 51-57.	2.3	48
44	Finite-Time Stability and Stabilization of Fractional Order Positive Switched Systems. Circuits, Systems, and Signal Processing, 2016, 35, 2450-2470.	2.0	47
45	Stability and Stabilization Analysis of Positive Polynomial Fuzzy Systems With Time Delay Considering Piecewise Membership Functions. IEEE Transactions on Fuzzy Systems, 2017, 25, 958-971.	9.8	46
46	Observer Design and Unknown Input Reconstruction for a Class of Switched Descriptor Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1411-1419.	9.3	45
47	L_1/ℓ_1-Gain analysis and synthesis of Markovian jump positive systems with time delay. ISA Transactions, 2016, 63, 93-102.	5.7	42
48	Discussions on observer design of nonlinear positive systems via T–S fuzzy modeling. Neurocomputing, 2015, 157, 70-75.	5.9	41
49	Empathy Impairment in Individuals With Autism Spectrum Conditions From a Multidimensional Perspective: A Meta-Analysis. Frontiers in Psychology, 2019, 10, 1902.	2.1	41
50	p–Times differentiable unbounded functions for robust control of uncertain switched nonlinear systems with tracking constraints. International Journal of Robust and Nonlinear Control, 2015, 25, 2965-2983.	3.7	40
51	New approaches to positive observer design for discrete-time positive linear systems. Journal of the Franklin Institute, 2018, 355, 4336-4350.	3.4	40
52	l_2 filtering of discrete-time switched systems via admissible edge-dependent switching signals. Systems and Control Letters, 2018, 113, 17-26.	2.3	39
53	Absolute exponential L_1-gain analysis and synthesis of switched nonlinear positive systems with time-varying delay. Applied Mathematics and Computation, 2016, 284, 24-36.	2.2	38
54	Exponential stability analysis and l_1 of positive T-S fuzzy systems with time-varying delays. Nonlinear Analysis: Hybrid Systems, 2017, 24, 186-197.	3.5	38

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55	Adaptive neural tracking control for a class of switched uncertain nonlinear systems. Neurocomputing, 2015, 168, 320-326.	5.9	35
56	Adaptive output-feedback neural tracking control for a class of nonstrict-feedback nonlinear systems. Information Sciences, 2016, 334-335, 205-218.	6.9	35
57	Adaptive fuzzy tracking control for a class of high-order switched uncertain nonlinear systems. Journal of the Franklin Institute, 2017, 354, 6567-6587.	3.4	35
58	Autistic Traits and Prosocial Behaviour in the General Population: Test of the Mediating Effects of Trait Empathy and State Empathic Concern. Journal of Autism and Developmental Disorders, 2019, 49, 3925-3938.	2.7	35
59	Design of polynomial fuzzy observer–controller with membership functions using unmeasurable premise variables for nonlinear systems. Information Sciences, 2016, 355-356, 186-207.	6.9	32
60	Using game theory to optimize allocation of defensive resources to protect multiple chemical facilities in a city against terrorist attacks. Journal of Loss Prevention in the Process Industries, 2016, 43, 614-628.	3.3	31
61	Linear programming–based robust model predictive control for positive systems. IET Control Theory and Applications, 2016, 10, 1789-1797.	2.1	29
62	Assessing urban lifeline systems immediately after seismic disaster based on emergency resilience. Structure and Infrastructure Engineering, 2016, 12, 1634-1649.	3.7	29
63	An improved approach to controller design of positive systems using controller gain decomposition. Journal of the Franklin Institute, 2017, 354, 1356-1373.	3.4	29
64	Stability analysis of discrete-time switched linear systems with unstable subsystems. Applied Mathematics and Computation, 2016, 273, 718-725.	2.2	28
65	Stability analysis of discrete-time switched systems: a switched homogeneous Lyapunov function method. International Journal of Control, 2016, 89, 297-305.	1.9	28
66	Adaptive neural tracking control for a class of uncertain switched nonlinear systems with unknown backlash-like hysteresis control input. Neurocomputing, 2017, 219, 50-58.	5.9	28
67	Estimator design of discrete-time switched positive linear systems with average dwell time. Journal of the Franklin Institute, 2014, 351, 579-588.	3.4	27
68	Further results on stability and stabilisation of switched positive systems. IET Control Theory and Applications, 2015, 9, 2132-2139.	2.1	27
69	Absolute exponential stability of switched nonlinear time-delay systems. Journal of the Franklin Institute, 2016, 353, 1249-1267.	3.4	25
70	Robust impulsive reset observers of a class of switched nonlinear systems with unknown inputs. Journal of the Franklin Institute, 2017, 354, 2924-2943.	3.4	25
71	Living arrangement modifies the associations of loneliness with adverse health outcomes in older adults: evidence from the CLHLS. BMC Geriatrics, 2022, 22, 59.	2.7	25
72	Fuzzy output–feedback control for non–linear systems with input time–varying delay. IET Control Theory and Applications, 2014, 8, 738-745.	2.1	24

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73	Distributed adaptive attitude synchronization for spacecraft formation flying with sampled-data information flows. Journal of the Franklin Institute, 2015, 352, 2796-2809.	3.4	24
74	Stability analysis of switched systems with extended average dwell time. Transactions of the Institute of Measurement and Control, 2018, 40, 1425-1434.	1.7	24
75	Stability and L1-gain analysis for switched positive T–S fuzzy systems under asynchronous switching. Journal of the Franklin Institute, 2018, 355, 5912-5927.	3.4	24
76	Delay-dependent stability criterion and Hˆž analysis for Markovian jump systems with time-varying delays. Asian Journal of Control, 2011, 13, 232-239.	3.0	23
77	Delay-dependent H âˆž performance analysis for Markovian jump systems with mode-dependent time varying delays and partially known transition rates. International Journal of Control, Automation and Systems, 2010, 8, 482-489.	2.7	22
78	Stabilization of jump linear systems with mode-dependent time-varying delays. Optimal Control Applications and Methods, 2011, 32, 139-152.	2.1	21
79	Reliable fault diagnosis method using ensemble fuzzy ARTMAP based on improved Bayesian belief method. Neurocomputing, 2014, 133, 309-316.	5.9	20
80	On robust control of continuous-time systems with state-dependent uncertainties and its application to mechanical systems. ISA Transactions, 2016, 60, 12-20.	5.7	20
81	A novel approach to stability analysis for switched positive linear systems. Journal of the Franklin Institute, 2014, 351, 3883-3898.	3.4	19
82	Fuzzy Tracking Control for Switched Uncertain Nonlinear Systems With Unstable Inverse Dynamics. IEEE Transactions on Fuzzy Systems, 2018, 26, 1066-1072.	9.8	19
83	Stability and control of discrete-time switched systems via one-step ahead Lyapunov function approach. IET Control Theory and Applications, 2018, 12, 1141-1147.	2.1	17
84	ON THE CORRELATION BETWEEN FRACTAL DIMENSION AND ROBUSTNESS OF COMPLEX NETWORKS. Fractals, 2019, 27, 1950067.	3.7	17
85	Autistic traits and emotional experiences in Chinese college students: Mediating role of emotional regulation and sex differences. Research in Autism Spectrum Disorders, 2020, 77, 101607.	1.5	17
86	Static and fatigue flexural performance of ultra-high performance fiber reinforced concrete slabs. Engineering Structures, 2021, 231, 111728.	5.3	17
87	Stability and $$l_{1}$$ l 1 -Gain Analysis for Switched Delay Positive Systems with Stable and Unstable Subsystems. Circuits, Systems, and Signal Processing, 2015, 34, 1683-1696.	2.0	16
88	Synchronization Control of Neural Networks With State-Dependent Coefficient Matrices. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2440-2447.	11.3	16
89	Adaptive neural tracking control for a class of uncertain nonstrict-feedback nonlinear systems. Journal of the Franklin Institute, 2017, 354, 6503-6519.	3.4	16
90	Stability of discrete-time switched systems with admissible edge-dependent switching signals. International Journal of Systems Science, 2018, 49, 974-983.	5.5	16

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91	Early–Middle Jurassic paleogeography reconstruction in the Western Qaidam Basin: Insights from sedimentology and detrital zircon geochronology. Marine and Petroleum Geology, 2020, 118, 104445.	3.3	16
92	Inversion of bedrock channel profiles in the Daqing Shan in Inner Mongolia, northern China: Implications for late Cenozoic tectonic history in the Hetao Basin and the Yellow River evolution. Tectonophysics, 2020, 790, 228558.	2.2	16
93	Adaptive Control for a Class of Switched Linear Systems Using State-Dependent Switching. Circuits, Systems, and Signal Processing, 2015, 34, 3681-3695.	2.0	15
94	Improved Controller Design for Uncertain Positive Systems and its Extension to Uncertain Positive Switched Systems. Asian Journal of Control, 2018, 20, 159-173.	3.0	15
95	Provenance and paleogeography of the Jurassic Northwestern Qaidam Basin (NW China): Evidence from sedimentary records and detrital zircon geochronology. Journal of Asian Earth Sciences, 2020, 190, 104060.	2.3	15
96	Reset stabilisation of positive linear systems. International Journal of Systems Science, 2016, 47, 2773-2782.	5.5	13
97	Dual approach to stability and stabilisation of uncertain switched positive systems. International Journal of Systems Science, 2017, 48, 873-884.	5.5	13
98	Signatures of tectonic–climatic interaction during the Late Cenozoic orogenesis along the northern Chinese Tian Shan. Basin Research, 2021, 33, 291-311.	2.7	13
99	New results on robust control for a class of uncertain systems and its applications to Chua's oscillator. Nonlinear Dynamics, 2016, 84, 1929-1941.	5.2	12
100	Effects Comparison of Different Resilience Enhancing Strategies for Municipal Water Distribution Network: A Multidimensional Approach. Mathematical Problems in Engineering, 2015, 2015, 1-16.	1.1	11
101	Stabilization of discrete-time switched singular systems with state, output and switching delays. Journal of the Franklin Institute, 2019, 356, 2060-2089.	3.4	11
102	New approaches to finite-time stability and stabilization for nonlinear system. Neurocomputing, 2014, 138, 218-228.	5.9	10
103	Synchronization of networked Euler–Lagrange systems by sampled-data communication with time-varying transmission delays under directed topology. Neurocomputing, 2015, 149, 729-735.	5.9	10
104	Stability analysis of reset positive systems with discrete-time triggering conditions. Applied Mathematics Letters, 2015, 39, 80-84.	2.7	10
105	Stability of discrete-time systems with time-varying delay based on switching technique. Journal of the Franklin Institute, 2018, 355, 6026-6044.	3.4	10
106	Autistic traits and negative emotions in the general population during COVID-19: Mediating roles of the behavioural immune system and COVID-19 risk perception. Psychiatry Research, 2021, 300, 113918.	3.3	10
107	Delay–dependent H_∞ performance analysis and filtering for Markovian jump systems with interval time–varying delays. International Journal of Adaptive Control and Signal Processing, 2010, 24, 633-642.	4.1	9
108	Output feedback stabilization for stochastic high-order nonlinear systems with SISS-like inverse dynamic. Journal of the Franklin Institute, 2015, 352, 5897-5914.	3.4	9

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109	Delay-dependent robust control for uncertain stochastic systems with Markovian switching and multiple delays. Journal of Systems Engineering and Electronics, 2010, 21, 287-295.	2.2	8
110	Tracking and $\varvec{H_\infty}$ H_∞ control of constrained nonlinear switched systems in strict feedback form. Nonlinear Dynamics, 2015, 80, 87-100.	5.2	8
111	Sub-Threshold Autistic Traits in Normal Population: Its Concept, Structure and Influencing Factors. Advances in Psychological Science, 2015, 23, 1599.	0.3	8
112	On the Design of 3D Steerable Beamformers With Uniform Concentric Circular Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2764-2778.	5.8	7
113	Finite-time exact tracking control for a class of non-linear dynamical systems. IET Control Theory and Applications, 2017, 11, 2020-2027.	2.1	7
114	Robust filter design for a class of uncertain systems with ‹mml:math altimg="si0005.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	3.4	6
115	Robust adaptive tracking control of uncertain systems with time-varying input delays. International Journal of Systems Science, 2017, 48, 3440-3449.	5.5	6
116	The spatial coding mechanism of ordinal symbols: a study based on the ordinal position effect. Attention, Perception, and Psychophysics, 2020, 82, 1051-1062.	1.3	6
117	On a Particular Family of Differential Beamformers With Cardioid-Like and No-Null Patterns. IEEE Signal Processing Letters, 2021, 28, 140-144.	3.6	6
118	H_∞ Filtering Design for Linear Systems with Interval Time-Varying Delays. Circuits, Systems, and Signal Processing, 2012, 31, 347-359.	2.0	5
119	Influence of inhibitory tagging (IT) on emotional and cognitive conflict processing: Evidence from event-related potentials. Neuroscience Letters, 2017, 657, 120-125.	2.1	5
120	Collaborative distributed design for wireless control systems with Markovian-type control network and distributed network-induced time delays. International Journal of Robust and Nonlinear Control, 2018, 28, 5464-5480.	3.7	5
121	Lack of Cross-Modal Effects in Dual-Modality Implicit Statistical Learning. Frontiers in Psychology, 2018, 9, 146.	2.1	5
122	Differential Beamforming From the Beampattern Factorization Perspective. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 632-643.	5.8	5
123	Optimal carbon emissions in an integrated network of roads and UFTS under the finite construction resources. Tunnelling and Underground Space Technology, 2019, 94, 103108.	6.2	4
124	New Developments in Sliding Mode Control and Its Applications 2014. Mathematical Problems in Engineering, 2015, 2015, 1-3.	1.1	3
125	Optimization Design of Underground Space Overburden Thickness in a Residential Area Concerning Outdoor Thermal Environment Evaluation. Sustainability, 2018, 10, 3205.	3.2	3
126	Autistic traits and social skills in Chinese college students: Mediating roles of adult attachment styles and empathy. Current Psychology, 2020, , 1.	2.8	3

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127	Autistic traits and gender modulate emotion changes before and during the COVID-19 pandemic. Current Psychology, 2022, 41, 8181-8191.	2.8	3
128	Observer-Based Robust Tracking Control for a Class of Switched Nonlinear Cascade Systems. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	2
129	Whether and How to Select Inertia and Acceleration of Discrete Particle Swarm Optimization Algorithm: A Study on Channel Assignment. Mathematical Problems in Engineering, 2014, 2014, 1-6.	1.1	2
130	An Overview of Networked Control of Complex Dynamic Systems. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	2
131	New Trends in Networked Control of Complex Dynamic Systems: Theories and Applications. Mathematical Problems in Engineering, 2014, 2014, 1-5.	1.1	2
132	â€œDose-Responseâ€•Vulnerability Assessment of Urban Power Supply Network: Foundation for Its Sustainability and Resilience. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	2