Yanzheng Zhu

List of Publications by Year
in descending order

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51 papers	1,999 citations	430874 18 h-index	377865 34 g-index
52 all docs	52 docs citations	52 times ranked	1502 citing authors

#	Article	IF	Citations
1	Adaptive Neural Network-Based Observer Design for Switched Systems With Quantized Measurements. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5897-5910.	11.3	35
2	Fault Estimation Observer Design for Markovian Jump Systems With Nondifferentiable Actuator and Sensor Failures. IEEE Transactions on Cybernetics, 2023, 53, 3844-3858.	9.5	9
3	Active fault tolerant control design using switching linear parameter varying controllers with inexact faultâ€effect parameters. International Journal of Robust and Nonlinear Control, 2022, 32, 4477-4494.	3.7	4
4	Integrated fault estimation and tolerant control for discrete-time switched affine systems with mixed switching laws. Nonlinear Analysis: Hybrid Systems, 2022, 44, 101167.	3.5	6
5	Passivityâ€based adaptive faultâ€tolerant control for continuousâ€time Markov jump PWA systems with actuator faults. International Journal of Robust and Nonlinear Control, 2022, 32, 2300-2312.	3.7	7
6	Active Fault-tolerant Control for Discrete-time Markov Jump LPV Systems via Time-varying Hidden Markov Model Approach. International Journal of Control, Automation and Systems, 2022, 20, 1785-1799.	2.7	4
7	Stability Analysis for Switched Functional Electrical Stimulation Cycling with Unknown Time-Varying Input Delays. , 2022, , .		1
8	Multi-controller-based fault tolerant control for systems with actuator and sensor failures: Application to 2-body point absorber wave energy converter. Journal of the Franklin Institute, 2022, 359, 5919-5934.	3.4	9
9	A fuzzy control framework for interconnected nonlinear power networks under TDS attack: Estimation and compensation. Journal of the Franklin Institute, 2021, 358, 74-88.	3.4	17
10	Guaranteed cost control of rigidâ€body attitude systems under control saturation. International Journal of Robust and Nonlinear Control, 2021, 31, 2393-2410.	3.7	1
11	Hidden Markov modelâ€based robust H âˆž fault estimation for Markov switching systems with application to a singleâ€link robot arm. Asian Journal of Control, 2021, 23, 2227.	3.0	10
12	Iterative Learning Fault-Tolerant Control for Discrete-time Linear Switched Systems. , 2021, , .		1
13	A new discrete reaching condition and generalized discrete reaching law with different convergence rates. Automatica, 2021, 132, 109805.	5.0	4
14	Observer-based fault estimation for a class of discrete-time switched affine systems: An application to the DC-DC converter. Journal of the Franklin Institute, 2021, 358, 7992-8011.	3.4	6
15	Tube-based attitude control of rigid-bodies with magnitude-bounded disturbances. Automatica, 2021, 133, 109845.	5.0	2
16	Piecewise Linear Control for Continuous-Time Markov Jump PWA Systems Based on Adaptive Fault-Tolerant Strategy. , 2021, , .		0
17	Novel active fault-tolerant control for discrete-time linear systems: A switched linear parameter varying approach. , 2021, , .		1
18	Passive fault-tolerant control for a class of discrete-time switched affine systems. , 2021, , .		0

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19	Stability, l_2 -Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3358-3368.	9.3	28
20	Quasi-Synchronization of Discrete-Time Lurâ€™e-Type Switched Systems With Parameter Mismatches and Relaxed PDT Constraints. IEEE Transactions on Cybernetics, 2020, 50, 2026-2037.	9.5	119
21	Multiple Lyapunov Functions Analysis Approach for Discrete-Time-Switched Piecewise-Affine Systems Under Dwell-Time Constraints. IEEE Transactions on Automatic Control, 2020, 65, 2177-2184.	5.7	141
22	Observer-Based Control for Cyber-Physical Systems With Periodic DoS Attacks via a Cyclic Switching Strategy. IEEE Transactions on Automatic Control, 2020, 65, 3714-3721.	5.7	190
23	Fault estimation for continuousâ€time nonâ€linear switched systems with timeâ€varying delay based on intermediate estimator. IET Control Theory and Applications, 2020, 14, 3020-3028.	2.1	4
24	Consensus Analysis of Multi-Agent Systems with Uncertain Switching Topology in Finite Frequency Domain. , 2020, , .		0
25	Exponential Stabilization of Takagiâ€“Sugeno Fuzzy Systems With Aperiodic Sampling: An Aperiodic Adaptive Event-Triggered Method. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 444-454.	9.3	112
26	Editorial: Hybrid Intelligent Algorithms Based Learning, Optimization, and Application to Autonomic Control Systems. Frontiers in Neuroscience, 2019, 13, 1090.	2.8	0
27	Guest editorial: Networked cyber-physical systems: Optimization theory and applications. Peer-to-Peer Networking and Applications, 2019, 12, 1624-1626.	3.9	0
28	Novel quantized fuzzy adaptive design for nonlinear systems with sliding mode technique. Nonlinear Dynamics, 2019, 96, 1635-1648.	5.2	16
29	Fault Estimation for Discrete-Time Switched Linear Parameter Varying Systems: An Input-to-State Stability Approach. , 2019, , .		0
30	Special issue on advanced analysis and control design of switching linear parameter-varying systems and its applications. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 3-4.	1.0	0
31	A Descriptor System Approach to Stability and Stabilization of Discrete-Time Switched PWA Systems. IEEE Transactions on Automatic Control, 2018, 63, 3456-3463.	5.7	102
32	Reachable set estimation for Takagi-Sugeno fuzzy systems against unknown output delays with application to tracking control of AUVs. ISA Transactions, 2018, 78, 31-38.	5.7	47
33	An Asynchronous Operation Approach to Event-Triggered Control for Fuzzy Markovian Jump Systems With General Switching Policies. IEEE Transactions on Fuzzy Systems, 2018, 26, 6-18.	9.8	234
34	State-Feedback Stabilization of Discrete-Time Switched Linear Systems With Improved PDT Constraints. , 2018, , .		0
35	HMM-Based <inline-formula> <tex-math notation="LaTeX">$mathcal{H}_{infty}$ </tex-math> </inline-formula> Filtering for Discrete-Time Markov Jump LPV Systems Over Unreliable Communication Channels. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2035-2046.	9.3	109
36	Fuzzy-model-based distributed sampled-data control and its application to a DC microgrid. , 2018, , .		0

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37	Editorial for Recent Developments on Stochastic Hybrid Systems: Control, Filtering and its Applications special section. Transactions of the Institute of Measurement and Control, 2018, 40, 2705-2707.	1.7	0
38	Extended Dissipative State Estimation for Markov Jump Neural Networks With Unreliable Links. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 346-358.	11.3	406
39	Dynamic Output Feedback Fuzzy Control of Large-Scale Nonlinear Networked Systems: A Two-Channel Triggering Approach. IEEE Access, 2017, 5, 12428-12438.	4.2	9
40	Observer-based output-feedback control of large-scale networked fuzzy systems with two-channel event-triggering. Journal of the Franklin Institute, 2017, 354, 5398-5420.	3.4	21
41	Fault detection and post-filter design for discrete-time switched systems with PDT switching. , 2017, , .		0
42	Nonstationary output feedback controller design for discrete-time Markov jump systems with application to a pneumatic throttle actuator. , 2017, , .		1
43	Filtering for networked switched systems with multiple redundant channels: An application to the boost-buck converter. , 2017, , .		2
44	Resilient Estimation for Networked Systems With Variable Communication Capability. IEEE Transactions on Automatic Control, 2016, 61, 4150-4156.	5.7	53
45	Robust Control of Networked Systems With Variable Communication Capabilities and Application to a Semi-Active Suspension System. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2097-2107.	5.8	76
46	Robust Decentralized Static Output-Feedback Control Design for Large-Scale Nonlinear Systems Using Takagi-Sugeno Fuzzy Models. IEEE Access, 2016, 4, 8250-8263.	4.2	34
47	Mode-mismatched estimator design for Markov jump genetic regulatory networks with random time delays. Neurocomputing, 2015, 168, 1121-1131.	5.9	8
48	Energy-to-Peak State Estimation for Markov Jump RNNs With Time-Varying Delays via Nonsynchronous Filter With Nonstationary Mode Transitions. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2346-2356.	11.3	90
49	Passivity and passification for Markov jump genetic regulatory networks with time-varying delays. Neurocomputing, 2014, 136, 321-326.	5.9	33
50	Robust stability analysis of Markov jump standard genetic regulatory networks with mixed time delays and uncertainties. Neurocomputing, 2013, 110, 44-50.	5.9	47
51	A Survey on Modeling Mechanism and Control Strategy of Rehabilitation Robots: Recent Trends, Current Challenges, and Future Developments. International Journal of Control, Automation and Systems, 0, , .	2.7	0