Qingling Zhang

List of Publications by Year
in descending order

73 papers	3,042 citations	117625 34 h-index	168389 53 g-index
73 all docs	73 docs citations	73 times ranked	1764 citing authors

#	Article	IF	Citations
1	Multiobjective Control for Tâ€“S Fuzzy Singularly Perturbed Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 104-115.	9.8	149
2	Switched Adaptive Fuzzy Tracking Control for a Class of Switched Nonlinear Systems Under Arbitrary Switching. IEEE Transactions on Fuzzy Systems, 2018, 26, 585-597.	9.8	141
3	Prescribed Performance Switched Adaptive Dynamic Surface Control of Switched Nonlinear Systems With Average Dwell Time. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1257-1269.	9.3	130
4	Sliding mode control for singular stochastic Markovian jump systems with uncertainties. Automatica, 2017, 79, 27-34.	5.0	124
5	Fault detection for stochastic parameter-varying Markovian jump systems with application to networked control systems. Applied Mathematical Modelling, 2016, 40, 2368-2383.	4.2	105
6	Output feedback adaptive sensor failure compensation for a class of parametric strict feedback systems. Automatica, 2018, 97, 48-57.	5.0	101
7	Complexity, Analysis and Control of Singular Biological Systems. Lecture Notes in Control and Information Sciences, 2012, , .	1.0	99
8	Adaptive fuzzy fault-tolerant control with guaranteed tracking performance for nonlinear strict-feedback systems. Fuzzy Sets and Systems, 2016, 302, 82-100.	2.7	98
9	Fuzzy Stochastic Optimal Guaranteed Cost Control of Bio-Economic Singular Markovian Jump Systems. IEEE Transactions on Cybernetics, 2015, 45, 2512-2521.	9.5	94
10	Integral sliding mode control for Markovian jump Tâ€“S fuzzy descriptor systems based on the superâ€twisting algorithm. IET Control Theory and Applications, 2017, 11, 1134-1143.	2.1	90
11	Observer-Based Fuzzy Integral Sliding Mode Control For Nonlinear Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 2818-2832.	9.8	89
12	Adaptive Reliable $H_infty $ Static Output Feedback Control Against Markovian Jumping Sensor Failures. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 631-644.	11.3	76
13	Small RNA Based Genetic Engineering for Plant Viral Resistance: Application in Crop Protection. Frontiers in Microbiology, 2017, 8, 43.	3.5	74
14	Robust Stabilization of Tâ€“S Fuzzy Stochastic Descriptor Systems via Integral Sliding Modes. IEEE Transactions on Cybernetics, 2018, 48, 2736-2749.	9.5	67
15	Stabilization of singular Markovian jump systems with time-varying switchings. Information Sciences, 2015, 297, 254-270.	6.9	66
16	Dissipativity Analysis and Synthesis for a Class of Tâ€“S Fuzzy Descriptor Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1774-1784.	9.3	65
17	Adaptive Fault-Tolerant Control for Nonlinear Systems With Multiple Sensor Faults and Unknown Control Directions. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4436-4446.	11.3	62
18	A linear switching function approach to sliding mode control and observation of descriptor systems. Automatica, 2018, 95, 112-121.	5.0	58

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19	Sliding-Mode Control for Singular Markovian Jump Systems With Brownian Motion Based on Stochastic Sliding Mode Surface. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 494-505.	9.3	58
20	Robust H âˆž sliding mode observer design for a class of Takagiâ€“Sugeno fuzzy descriptor systems with time-varying delay. Applied Mathematics and Computation, 2018, 337, 158-178.	2.2	52
21	Admissibility Analysis and Control Synthesis for Tâ€“S Fuzzy Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 729-740.	9.8	49
22	Real-time guaranteed cost control of MIMO networked control systems with packet disordering. Journal of Process Control, 2011, 21, 967-975.	3.3	48
23	Analysis and Design of Singular Markovian Jump Systems. , 2015, , .		48
24	Admissibility Analysis for Interval Type-2 Fuzzy Descriptor Systems Based on Sliding Mode Control. IEEE Transactions on Cybernetics, 2019, 49, 3032-3040.	9.5	48
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mo>âˆž</mml:mo></mml:mrow><fuzzy control for nonlinear time-delay singular Markovian jump systems with partly unknown transition rates. Fuzzy Sets and Systems, 2014, 254, 106-125.	2.7	46
26	Finite-time synchronization for second-order nonlinear multi-agent system via pinning exponent sliding mode control. ISA Transactions, 2016, 65, 96-108.	5.7	44
27	Fuzzy Reduced-Order Compensator-Based Stabilization for Interconnected Descriptor Systems via Integral Sliding Modes. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 752-765.	9.3	44
28	Delayâ€dependent dissipative control for a class of nonâ€linear system via Takagiâ€“Sugeno fuzzy descriptor model with time delay. IET Control Theory and Applications, 2014, 8, 451-461.	2.1	43
29	An integral sliding mode control approach to observer-based stabilization of stochastic ItÃ´ descriptor systems. Neurocomputing, 2016, 173, 1330-1340.	5.9	43
30	Exponential synchronisation of united complex dynamical networks with multiâ€links via adaptive periodically intermittent control. IET Control Theory and Applications, 2013, 7, 1725-1736.	2.1	42
31	Adaptive Fuzzy Tracking Control for a Class of Switched Uncertain Nonlinear Systems: An Adaptive State-Dependent Switching Law Method. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2282-2291.	9.3	42
32	Sliding mode control for Tâ€“S fuzzy singular semi-Markovian jump system. Nonlinear Analysis: Hybrid Systems, 2018, 30, 72-91.	3.5	38
33	Reduced-Order Observer-Based Sliding Mode Control for Singular Markovian Jump System With Time-Varying Transition Rate. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 796-809.	5.4	38
34	Sliding Mode Control for Fuzzy Singular Systems With Time Delay Based on Vector Integral Sliding Mode Surface. IEEE Transactions on Fuzzy Systems, 2020, 28, 768-782.	9.8	37
35	Dissipative control for singular Markovian jump systems with time delay. Optimal Control Applications and Methods, 2012, 33, 415-432.	2.1	36
36	Observer-Based Adaptive Sliding Mode Control for Tâ€“S Fuzzy Singular Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4438-4446.	9.3	36

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37	Hâˆž filtering for time-delayed singular Markovian jump systems with time-varying switching: A quantized method. Signal Processing, 2015, 109, 14-24.	3.7	35
38	Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1840-1849.	9.3	35
39	$$H_infty $$ H âˆž filtering for stochastic singular fuzzy systems with time-varying delay. Nonlinear Dynamics, 2015, 79, 215-228.	5.2	31
40	Non-fragile static output feedback control for singular Tâ€“S fuzzy delay-dependent systems subject to Markovian jump and actuator saturation. Journal of the Franklin Institute, 2016, 353, 2373-2397.	3.4	29
41	Integrated Sliding Mode Control and Neural Networks Based Packet Disordering Prediction for Nonlinear Networked Control Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2324-2335.	11.3	29
42	Robust Adaptive Sliding Mode Observer Design for T-S Fuzzy Descriptor Systems With Time-Varying Delay. IEEE Access, 2018, 6, 46002-46018.	4.2	27
43	Fuzzy-approximation adaptive fault-tolerant control for nonlinear pure-feedback systems with unknown control directions and sensor failures. Fuzzy Sets and Systems, 2019, 356, 28-43.	2.7	25
44	Sliding mode control for descriptor Markovian jump systems with mode-dependent derivative-term coefficient. Nonlinear Dynamics, 2015, 82, 465-480.	5.2	24
45	Delay-dependent adaptive dynamic surface control for nonlinear strict-feedback delayed systems with unknown dead zone. Journal of the Franklin Institute, 2016, 353, 279-302.	3.4	22
46	Modeling and analysis in a preyâ€“predator system with commercial harvesting and double time delays. Applied Mathematics and Computation, 2016, 281, 77-101.	2.2	22
47	A partially delayâ€dependent and disordered controller design for discreteâ€time delayed systems. International Journal of Robust and Nonlinear Control, 2017, 27, 2646-2668.	3.7	21
48	Positive observer design for discrete-time positive system with missing data in output. Neurocomputing, 2015, 168, 427-434.	5.9	20
49	Dissipative control for Tâ€“S fuzzy descriptor systems with actuator saturation and disturbances. Journal of the Franklin Institute, 2016, 353, 4950-4978.	3.4	20
50	Robust Adaptive Fuzzy Control of a Class of Uncertain Nonlinear Systems With Unstable Dynamics and Mismatched Disturbances. IEEE Transactions on Cybernetics, 2018, 48, 3105-3115.	9.5	18
51	Networked control for Tâ€“S fuzzy descriptor systems with network-induced delay and packet disordering. Neurocomputing, 2018, 275, 2264-2278.	5.9	17
52	Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1999-2006.	9.3	17
53	Sliding mode control for discrete-time descriptor Markovian jump systems with two Markov chains. Optimization Letters, 2018, 12, 1199-1213.	1.6	15
54	Observer-based passive control for polynomial fuzzy singular systems with time-delay via sliding mode control. Nonlinear Analysis: Hybrid Systems, 2020, 37, 100909.	3.5	15

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55	Novel sliding surface design for nonlinear singular systems. Neurocomputing, 2016, 177, 497-508.	5.9	14
56	Simplified filteringâ€based adaptive fuzzy dynamic surface control approach for nonâ€linear strictâ€feedback systems. IET Control Theory and Applications, 2016, 10, 493-503.	2.1	14
57	Dynamic Sliding-Mode Control for T-S Fuzzy Singular Time-Delay Systems With ${H}_{infty}$ Performance. IEEE Access, 2019, 7, 115388-115399.	4.2	14
58	Sliding mode control for polynomial fuzzy singular systems with time delay. IET Control Theory and Applications, 2018, 12, 1483-1490.	2.1	13
59	Stabilization of singular T-S fuzzy Markovian jump system with mode-dependent derivative-term coefficient via sliding mode control. Applied Mathematics and Computation, 2020, 364, 124643.	2.2	12
60	Impulse Elimination of the Takagiâ€“Sugeno Fuzzy Singular System Via Sliding-Mode Control. IEEE Transactions on Fuzzy Systems, 2022, 30, 1164-1174.	9.8	12
61	Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2433-2443.	9.3	11
62	Stabilization of stochastic delay systems via a disordered controller. Applied Mathematics and Computation, 2017, 314, 98-109.	2.2	9
63	Neural Network Based Adaptive SMO Design for Tâ€“S Fuzzy Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 2605-2618.	9.8	9
64	Observer design for a class of T-S fuzzy singular systems. Advances in Difference Equations, 2017, 2017, .	3.5	6
65	Robust Sliding-Mode Control for Fuzzy Stochastic Singular Systems With Different Local Input Matrices. IEEE Access, 2018, 6, 29391-29406.	4.2	5
66	Dissipative analysis for nonlinear singular systems with time-delay. International Journal of Control, Automation and Systems, 2017, 15, 2461-2470.	2.7	4
67	The Controller Design of the Epilepsy Therapy Apparatus. Mathematical Problems in Engineering, 2017, 2017, 1-8.	1.1	4
68	Integral sliding mode control for interconnected descriptor systems based on a reduced-order observer. International Journal of Systems Science, 2019, 50, 1947-1960.	5.5	4
69	Robust stabilisation for a class of stochastic Tâ€“S fuzzy descriptor systems via dynamic slidingâ€mode control. IET Control Theory and Applications, 2020, 14, 1346-1357.	2.1	4
70	H-infinity control with an alpha-stability constraint: a descriptor system approach. Journal of Control Theory and Applications, 2008, 6, 115-121.	0.8	2
71	Positive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mn fontstyle="italic">1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>State-Bounding Observer Design for Positive Interval Markovian Jump Systems. Mathematical Problems in Engineering, 2016, 2016, 1-9.	1.1	2
72	Optimal Harvest Control in a Singular Prey-Predator Fishery Model with Maturation Delay and Gestation Delay. Discrete Dynamics in Nature and Society, 2016, 2016, 1-9.	0.9	1

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73	A new method for directly calculating the sensitivity of loading margin. , 2008, , .		0