

# Shuping He

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117 papers	2,454 citations	31 h-index	45 g-index
153 ext. papers	3,189 ext. citations	3.8 avg, IF	6.49 L-index

#	Paper	IF	Citations
117	Finite-Time $H_{\infty}$ Fuzzy Control of Nonlinear Jump Systems With Time Delays Via Dynamic Observer-Based State Feedback. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2012</b> , 20, 605-614	8.3	164
116	Robust Finite-Time Bounded Controller Design of Time-Delay Conic Nonlinear Systems Using Sliding Mode Control Strategy. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1863-1873	7.3	101
115	Adaptive Optimal Control for a Class of Nonlinear Systems: The Online Policy Iteration Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 549-558	10.3	79
114	State and parameter joint estimation of linear stochastic systems in presence of faults and non-Gaussian noises. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 6683-6700	3.6	74
113	Robust peak-to-peak filtering for Markov jump systems. <i>Signal Processing</i> , <b>2010</b> , 90, 513-522	4.4	71
112	Finite-Time L-Gain Asynchronous Control for Continuous-Time Positive Hidden Markov Jump Systems via T-S Fuzzy Model Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 77-87	10.2	66
111	Finite-Time Resilient Controller Design of a Class of Uncertain Nonlinear Systems With Time-Delays Under Asynchronous Switching. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 281-286	7.3	62
110	Observer-Based Asynchronous Fault Detection for Conic-Type Nonlinear Jumping Systems and its Application to Separately Excited DC Motor. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 951-962	3.9	60
109	Finite-time robust passive control for a class of uncertain Lipschitz nonlinear systems with time-delays. <i>Neurocomputing</i> , <b>2015</b> , 159, 275-281	5.4	57
108	Finite-time boundedness of uncertain time-delayed neural network with Markovian jumping parameters. <i>Neurocomputing</i> , <b>2013</b> , 103, 87-92	5.4	56
107	Robust finite-time . <i>Journal of the Franklin Institute</i> , <b>2015</b> , 352, 3250-3266	4	55
106	Stochastic finite-time boundedness of Markovian jumping neural network with uncertain transition probabilities. <i>Applied Mathematical Modelling</i> , <b>2011</b> , 35, 2631-2638	4.5	54
105	Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-8	7.3	52
104	Observer-based finite-time control of time-delayed jump systems. <i>Applied Mathematics and Computation</i> , <b>2010</b> , 217, 2327-2338	2.7	49
103	Robust fault detection filter design for a class of discrete-time conic-type non-linear Markov jump systems with jump fault signals. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 1912-1919	2.5	47
102	Finite-time asynchronous dissipative filtering of conic-type nonlinear Markov jump systems. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	46
101	Online policy iterative-based $H_{\infty}$ optimization algorithm for a class of nonlinear systems. <i>Information Sciences</i> , <b>2019</b> , 495, 1-13	7.7	45

100	Filtering-based robust fault detection of fuzzy jump systems. <i>Fuzzy Sets and Systems</i> , <b>2011</b> , 185, 95-110	3.7	44
99	Fuzzy Fault Detection for Markov Jump Systems With Partly Accessible Hidden Information: An Event-Triggered Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	44
98	Finite-region asynchronous H <sub>∞</sub> control for 2D Markov jump systems. <i>Automatica</i> , <b>2021</b> , 129, 109590	5.7	42
97	Fault detection filter design for a class of nonlinear Markovian jumping systems with mode-dependent time-varying delays. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 1871-1884	5	41
96	Fuzzy model-based fault detection for Markov jump systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 1248-1266	3.6	41
95	Asynchronous fault detection filtering for piecewise homogenous Markov jump linear systems via a dual hidden Markov model. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 151, 107353	7.8	41
94	Non-fragile finite-time filter design for time-delayed Markovian jumping systems via TS fuzzy model approach. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 1159-1171	5	38
93	Non-fragile passive controller design for nonlinear Markovian jumping systems via observer-based controls. <i>Neurocomputing</i> , <b>2015</b> , 147, 350-357	5.4	37
92	Robust stabilization of stochastic Markovian jumping systems via proportional-integral control. <i>Signal Processing</i> , <b>2011</b> , 91, 2478-2486	4.4	36
91	Unbiased H <sub>∞</sub> filtering for neutral Markov jump systems. <i>Applied Mathematics and Computation</i> , <b>2008</b> , 206, 175-185	2.7	36
90	Finite-time H <sub>∞</sub> control for quasi-one-sided Lipschitz nonlinear systems. <i>Neurocomputing</i> , <b>2015</b> , 149, 1433-1439	3.4	35
89	Finite-time stabilization for positive Markovian jumping neural networks. <i>Applied Mathematics and Computation</i> , <b>2020</b> , 365, 124631	2.7	35
88	Adaptive optimization algorithm for nonlinear Markov jump systems with partial unknown dynamics. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2126-2140	3.6	34
87	Robust H <sub>∞</sub> sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 885-892	7.3	33
86	Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 2467-2475	7.3	31
85	Finite-time positiveness and distributed control of Lipschitz nonlinear multi-agent systems. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 8080-8092	4	30
84	Finite-time sliding mode control design for a class of uncertain conic nonlinear systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2017</b> , 4, 809-816	7	29
83	Stochastic Finite-Time Stabilization for Uncertain Jump Systems via State Feedback. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2010</b> , 132,	1.6	28

82	Characterization of four polymorphic genes controlling red leaf colour in lettuce that have undergone disruptive selection since domestication. <i>Plant Biotechnology Journal</i> , <b>2020</b> , 18, 479-490	11.6	28
81	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	28
80	Online adaptive optimal control for continuous-time Markov jump linear systems using a novel policy iteration algorithm. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 1536-1543	2.5	26
79	Reinforcement learning and adaptive optimization of a class of Markov jump systems with completely unknown dynamic information. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 14311-14320	4.8	25
78	Optimal finite-time passive controller design for uncertain nonlinear Markovian jumping systems. <i>Journal of the Franklin Institute</i> , <b>2014</b> , 351, 3782-3796	4	24
77	Data-driven policy iteration algorithm for optimal control of continuous-time Itô stochastic systems with Markovian jumps. <i>IET Control Theory and Applications</i> , <b>2016</b> , 10, 1431-1439	2.5	23
76	Observer-based finite-time asynchronous control for a class of hidden Markov jumping systems with conic-type non-linearities. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 244-252	2.5	23
75	Adaptive Tracking Control of an Electronic Throttle Valve Based on Recursive Terminal Sliding Mode. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 251-262	6.8	23
74	A new iterative algorithm for solving H <sub>∞</sub> control problem of continuous-time Markovian jumping linear systems based on online implementation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 3737-3754	3.6	22
73	Fault estimation for T-S fuzzy Markovian jumping systems based on the adaptive observer. <i>International Journal of Control, Automation and Systems</i> , <b>2014</b> , 12, 977-985	2.9	22
72	Asynchronous Fault Detection Observer for 2-D Markov Jump Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	22
71	Robust finite-time estimation of Markovian jumping systems with bounded transition probabilities. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 222, 297-306	2.7	20
70	Observer-based finite-time passive control for a class of uncertain time-delayed Lipschitz nonlinear systems. <i>Transactions of the Institute of Measurement and Control</i> , <b>2014</b> , 36, 797-804	1.8	19
69	Sliding Mode Control for a Class of Nonlinear Positive Markov Jumping Systems with Uncertainties in a Finite-time Interval. <i>International Journal of Control, Automation and Systems</i> , <b>2019</b> , 17, 1634-1641	2.9	17
68	L <sub>2</sub> -Fuzzy control for Markov jump systems with neutral time-delays. <i>Mathematics and Computers in Simulation</i> , <b>2013</b> , 92, 1-13	3.3	17
67	Resilient fault detection observer design of fuzzy Markovian jumping systems with mode-dependent time-varying delays. <i>Journal of the Franklin Institute</i> , <b>2016</b> , 353, 2943-2965	4	16
66	Energy-to-peak filtering for TS fuzzy systems with Markovian jumping: The finite-time case. <i>Neurocomputing</i> , <b>2015</b> , 168, 348-355	5.4	15
65	Output regulation of a class of continuous-time Markovian jumping systems. <i>Signal Processing</i> , <b>2013</b> , 93, 411-419	4.4	15

64	Unbiased estimation of Markov jump systems with distributed delays. <i>Signal Processing</i> , <b>2014</b> , 100, 85-92	4.4	14
63	Exponential stability for uncertain neutral systems with Markov jumps. <i>Journal of Control Theory and Applications</i> , <b>2009</b> , 7, 35-40		14
62	Exponential stability of hybrid stochastic functional differential systems with delayed impulsive effects: average impulsive interval approach. <i>Mathematical Methods in the Applied Sciences</i> , <b>2017</b> , 40, 4197-4210	2.3	12
61	HMM-Based Asynchronous Controller Design of Markovian Jumping Lur $\ddot{e}$ Systems Within a Finite-Time Interval. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-7	7.3	12
60	Adaptive Observer-Based Fault Estimation for Stochastic Markovian Jumping Systems. <i>Abstract and Applied Analysis</i> , <b>2012</b> , 2012, 1-11	0.7	12
59	Finite-time stabilisation for a class of time-delayed Markovian jumping systems with conic non-linearities. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 1279-1283	2.5	12
58	Adaptive optimal controller design for a class of LDI-based neural network systems with input time-delays. <i>Neurocomputing</i> , <b>2020</b> , 385, 292-299	5.4	11
57	Online reinforcement learning multiplayer non-zero sum games of continuous-time Markov jump linear systems. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 412, 126537	2.7	11
56	Finite-time H $\infty$ Filtering of time-delay stochastic jump systems with unbiased estimation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2010</b> , 224, 947-959	1	10
55	Robust finite-time H $\infty$ Control of stochastic jump systems. <i>International Journal of Control, Automation and Systems</i> , <b>2010</b> , 8, 1336-1341	2.9	10
54	Sliding Mode Control for a Class of Positive Systems With Lipschitz Nonlinearities. <i>IEEE Access</i> , <b>2018</b> , 6, 49811-49816	3.5	10
53	On Delay-Dependent Stability of Markov Jump Systems with Distributed Time-Delays. <i>Circuits, Systems, and Signal Processing</i> , <b>2011</b> , 30, 323-337	2.2	8
52	Controlling uncertain fuzzy neutral dynamic systems with Markov jumps. <i>Journal of Systems Engineering and Electronics</i> , <b>2010</b> , 21, 476-484	1.3	8
51	Robust L $2$ -L $\infty$ Filtering of Time-Delay Jump Systems with Respect to the Finite-Time Interval. <i>Mathematical Problems in Engineering</i> , <b>2011</b> , 2011, 1-17	1.1	8
50	Nonfragile Robust Finite-Time L $2$ -L $\infty$ Controller Design for a Class of Uncertain Lipschitz Nonlinear Systems with Time-Delays. <i>Abstract and Applied Analysis</i> , <b>2013</b> , 2013, 1-9	0.7	7
49	Resilient - Filtering of Uncertain Markovian Jumping Systems within the Finite-Time Interval. <i>Abstract and Applied Analysis</i> , <b>2013</b> , 2013, 1-7	0.7	7
48	On robust controllability of uncertain non-linear jump systems with respect to the finite-time interval. <i>Transactions of the Institute of Measurement and Control</i> , <b>2012</b> , 34, 841-849	1.8	7
47	Finite-Time Non-Fragile Control of a Class of Uncertain Linear Positive Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 6319-6326	3.5	6

- 46 Robust finite-time control and estimation for uncertain time-delayed switched systems by observer-based sliding mode technique. *Optimal Control Applications and Methods*, **2020**, 41, 1813-1830 1.7 6
- 45 New energy-efficient time synchronization algorithm design for wireless sensor networks **2017**, 6
- 44 Neural network-based robust fault detection for nonlinear jump systems. *Chaos, Solitons and Fractals*, **2009**, 42, 760-766 9.3 6
- 43 Periodic Event-Triggered Terminal Sliding Mode Speed Control for Networked PMSM System: A GA-Optimized Extended State Observer Approach. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-12 5.5 6
- 42 Finite-time asynchronous resilient observer design of a class of non-linear switched systems with time-delays and uncertainties. *IET Control Theory and Applications*, **2020**, 14, 952-963 2.5 5
- 41 Generalized Dissipative State Estimation of Singularly Perturbed Switched Complex Dynamic Networks With Persistent Dwell-Time Mechanism. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-12 7.3 5
- 40 Redox-Induced Interconversion of Two Au Nanoclusters: the Mechanism and the Structure-Bond Dissociation Activity Correlations. *Inorganic Chemistry*, **2021**, 60, 5724-5733 5.1 5
- 39 Positiveness and Observer-Based Finite-Time Control for a Class of Markov Jump Systems with Some Complex Environment Parameters. *Complexity*, **2018**, 2018, 1-13 1.6 5
- 38 Finite-time passive filtering for a class of neutral time-delayed systems. *Transactions of the Institute of Measurement and Control*, **2017**, 39, 1139-1145 1.8 4
- 37 Design the finite-time H<sub>∞</sub>resilient filter of a class of switched systems with uncertain parameters. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 2756-2764 1.8 4
- 36 Almost Asymptotic Regulation of Markovian Jumping Linear Systems in Discrete Time. *Asian Journal of Control*, **2014**, 16, 1869-1879 1.7 4
- 35 Dynamic Event-Triggered SMC of Multi-agent Systems for Consensus Tracking. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1 3.5 4
- 34 Discrete-time integral terminal sliding mode-based speed tracking control for a robotic fish. *Nonlinear Dynamics*, **2021**, 105, 359-370 5 3
- 33 Improvement of the AlexNet Networks for Large-Scale Recognition Applications. *Iranian Journal of Science and Technology - Transactions of Electrical Engineering*, **2021**, 45, 493-503 1.9 3
- 32 Positiveness and Finite-Time Control of Dual Switching Poisson Jump Network Control Systems with Time-Varying Delays and Packet Drops. *IEEE Transactions on Control of Network Systems*, **2022**, 1-1 4 3
- 31 Fuzzy fault detection of conic-type nonlinear systems within the finite frequency domain. *Applied Mathematics and Computation*, **2020**, 378, 125181 2.7 2
- 30 Finite-time guaranteed cost control for uncertain lipschitz nonlinear system with time-delay **2016**, 2
- 29 Finite-time non-fragile controller design for a class of switching linear parameter varying systems based on linear matrix inequalities. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2019**, 233, 58-66 1 2



28	Robust Control, Optimization, and Applications to Markovian Jumping Systems. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-3	0.7	2
27	PD-Type Sampled-Data Iterative Learning Control for Nonlinear Systems with Time Delays and Uncertain Disturbances <b>2009</b> ,		2
26	Finite-time dissipative control for time-delay Markov jump systems with conic-type non-linearities under guaranteed cost controller and quantiser. <i>IET Control Theory and Applications</i> , <b>2021</b> , 15, 489-498	2.5	2
25	High-order moment multi-sensor fusion filter design of Markov jump linear systems. <i>IET Signal Processing</i> , <b>2020</b> , 14, 666-671	1.7	2
24	Reinforcement learning-based nonlinear tracking control system design via LDI approach with application to trolley system. <i>Neural Computing and Applications</i> ,1	4.8	2
23	Finite-time Peak-to-peak Gain Minimization. <i>International Journal of Control, Automation and Systems</i> , <b>2019</b> , 17, 319-326	2.9	1
22	Observer-based robust H vibration control of a half-car active suspension system: A finite-time approach <b>2020</b> , 253-273		1
21	The wireless smart socket control system design <b>2017</b> ,		1
20	Asynchronous sliding mode dissipative control for discrete-time Markov jump systems with application to automotive electronic throttle body control system. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 96, 107496	4.3	1
19	Multi-event triggered sliding mode control for a class of complex dynamic network. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 1-1	4	1
18	Controlling the discrete-time conic-type nonlinear system by a time-delayed robust controller. <i>Optimal Control Applications and Methods</i> , <b>2020</b> , 41, 369-380	1.7	1
17	Adaptive sliding mode control for 2D nonlinear FornasiniMarchesini model subject to quantisation and packet dropouts. <i>International Journal of Systems Science</i> ,1-12	2.3	1
16	Observer-Based Proportional-Integral Controller Design for a Class of Uncertain Switched Systems. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , <b>2019</b> , 43, 303-312	1.9	1
15	Imperceptible and Sparse Adversarial Attacks via a Dual-Population Based Constrained Evolutionary Algorithm. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2022</b> , 1-1	4.7	1
14	Finite-time asynchronous H <sub>∞</sub> fault-tolerant control for nonlinear hidden markov jump systems with actuator and sensor faults. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 428, 127212	2.7	1
13	Dissipativity-based finite-time asynchronous output feedback control for wind turbine system via a hidden Markov model. <i>International Journal of Systems Science</i> ,1-13	2.3	1
12	Fault-tolerant tracking control based on reinforcement learning with application to a steer-by-wire system. <i>Journal of the Franklin Institute</i> , <b>2022</b> , 359, 1152-1171	4	0
11	Finite-time sliding mode control for UVMS via T-S fuzzy approach. <i>Discrete and Continuous Dynamical Systems - Series S</i> , <b>2021</b> ,	2.8	0

10	Finite-time resources-aware self-triggered $H_2$ controller for Markov jump systems. <i>Journal of the Franklin Institute</i> , <b>2020</b> , 357, 11773-11792	4	o
9	Further Improvement for Admissibility Analysis of Singular Time-Delay Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-6	7.3	o
8	Observer-Based Event-Impulse Mixed Triggered Fault Detection for Nonlinear Semi-Markov Jump Systems. <i>Journal of the Franklin Institute</i> , <b>2022</b> , 359, 5078-5078	4	o
7	Finite-time $H_2/H_\infty$ control for linear Itô stochastic Markovian jump systems with Brownian motion and Poisson jumps. <i>Systems and Control Letters</i> , <b>2022</b> , 165, 105285	2.4	o
6	Resilient Robust Finite-Time $L_2$ - $L_\infty$ Controller Design for Uncertain Neutral System with Mixed Time-Varying Delays. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-12	0.7	
5	Stochastic Systems: Modeling, Optimization, and Applications. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-3	1.1	
4	Output tracking of Markovian jumping systems via error feedback regulation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 2424-2429		
3	Fault detection for a class of Markov jump systems with unknown disturbances. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , <b>2009</b> , 4, 60-65		
2	Fuzzy filtering-based fault detection for a class of discrete-time conic-type nonlinear systems. <i>IET Signal Processing</i> , <b>2021</b> , 15, 153-161	1.7	
1	Fuzzy-Based Adaptive Optimization of Unknown Discrete-Time Nonlinear Markov Jump Systems with Off-Policy Reinforcement Learning. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	