Wenhai Qi

List of Publications by Year in descending order

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115	3,517	147801	155660
papers	citations	31 h-index	55 g-index

116	116	116	1661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive Event-Triggered SMC for Stochastic Switching Systems With Semi-Markov Process and Application to Boost Converter Circuit Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 786-796.	5.4	233
2	Finite-Time Event-Triggered Control for Semi-Markovian Switching Cyber-Physical Systems With FDI Attacks and Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2665-2674.	5.4	223
3	Observer-Based Adaptive SMC for Nonlinear Uncertain Singular Semi-Markov Jump Systems With Applications to DC Motor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2951-2960.	5.4	197
4	Sliding Mode Control for Nonlinear Stochastic Singular Semi-Markov Jump Systems. IEEE Transactions on Automatic Control, 2020, 65, 361-368.	5.7	146
5	An Event-Based Asynchronous Approach to Markov Jump Systems With Hidden Mode Detections and Missing Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1749-1758.	9.3	144
6	$mathscr {L}_infty$ Control for Positive Delay Systems With Semi-Markov Process and Application to a Communication Network Model. IEEE Transactions on Industrial Electronics, 2019, 66, 2081-2091.	7.9	142
7	Hidden Markov Model-Based Nonfragile State Estimation of Switched Neural Network With Probabilistic Quantized Outputs. IEEE Transactions on Cybernetics, 2020, 50, 1900-1909.	9.5	133
8	Finite-time stabilization of Tâ€“S fuzzy semi-Markov switching systems: A coupling memory sampled-data control approach. Journal of the Franklin Institute, 2020, 357, 11265-11280.	3.4	100
9	Fuzzy SMC for Quantized Nonlinear Stochastic Switching Systems With Semi-Markovian Process and Application. IEEE Transactions on Cybernetics, 2022, 52, 9316-9325.	9.5	92
10	Robust stabilisation for nonâ€linear timeâ€delay semiâ€Markovian jump systems via sliding mode control. IET Control Theory and Applications, 2017, 11, 1504-1513.	2.1	84
11	Static output feedback control of switched systems with quantization: A nonhomogeneous sojourn probability approach. International Journal of Robust and Nonlinear Control, 2019, 29, 5992-6005.	3.7	84
12	A hidden mode observation approach to finite-time SOFC of Markovian switching systems with quantization. Nonlinear Dynamics, 2020, 100, 509-521.	5.2	83
13	Finite-Time Observer-Based Sliding Mode Control for Quantized Semi-Markov Switching Systems With Application. IEEE Transactions on Industrial Informatics, 2020, 16, 1259-1271.	11.3	78
14	â„’â‚Control of Positive Semi-Markov Jump Systems With State Delay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7569-7578.	9.3	74
15	Fuzzy Integral Sliding-Mode Control for Nonlinear Semi-Markovian Switching Systems With Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1674-1683.	9.3	73
16	Sliding Mode Control for Nonlinear Stochastic Semi-Markov Switching Systems With Application to SRMM. IEEE Transactions on Industrial Electronics, 2020, 67, 3955-3966.	7.9	64
17	Exponential stability and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi mathvariant="bold-script">L</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-gain analysis for positive time-delay Markovian jump systems with switching transition rates subject to average dwell time. Information Sciences, 2018, 424, 224-234.	6.9	63
18	State feedback controller design for singular positive Markovian jump systems with partly known transition rates. Applied Mathematics Letters, 2015, 46, 111-116.	2.7	59

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19	Controller design for time-delay system with stochastic disturbance and actuator saturation via a new criterion. Applied Mathematics and Computation, 2018, 320, 535-546.	2.2	50
20	Adaptive attack-resilient control for Markov jump system with additive attacks. Nonlinear Dynamics, 2021, 103, 1585-1598.	5.2	48
21	Adaptive neural network asymptotic tracking control for a class of stochastic nonlinear systems with unknown control gains and full state constraints. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2007-2024.	4.1	46
22	Finite-time Synchronization of Delayed Semi-Markov Neural Networks with Dynamic Event-triggered Scheme. International Journal of Control, Automation and Systems, 2021, 19, 2297-2308.	2.7	45
23	Adaptive output-feedback neural tracking control for uncertain switched MIMO nonlinear systems with time delays. International Journal of Systems Science, 2021, 52, 2813-2830.	5.5	44
24	Anti-windup design for stochastic Markovian switching systems with mode-dependent time-varying delays and saturation nonlinearity. Nonlinear Analysis: Hybrid Systems, 2017, 26, 201-211.	3.5	43
25	$$L_1$$ L 1 Control for Positive Markovian Jump Systems with Time-Varying Delays and Partly Known Transition Rates. Circuits, Systems, and Signal Processing, 2015, 34, 2711-2726.	2.0	41
26	A Fuzzy Lyapunov Function Approach to Positive L₁ Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 775-785.	9.3	41
27	SMC for Discrete-Time Nonlinear Semi-Markovian Switching Systems With Partly Unknown Semi-Markov Kernel. IEEE Transactions on Automatic Control, 2023, 68, 1855-1861.	5.7	40
28	Filter for Positive Stochastic Nonlinear Switching Systems With Phase-Type Semi-Markov Parameters and Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2225-2236.	9.3	38
29	Fault Detection for Semi-Markov Switching Systems in the Presence of Positivity Constraints. IEEE Transactions on Cybernetics, 2022, 52, 13027-13037.	9.5	36
30	Dynamic output-feedback control for continuous-time interval positive systems under L1 performance. Applied Mathematics and Computation, 2016, 289, 48-59.	2.2	34
31	Inputâ€“Output Finite-Time Asynchronous SMC for Nonlinear Semi-Markov Switching Systems With Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5344-5353.	9.3	33
32	Anti-Windup Design for Saturated Semi-Markovian Switching Systems With Stochastic Disturbance. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1187-1191.	3.0	32
33	Non-fragile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mi mathvariant="script">H</mml:mi><mml:mi>âˆž</mml:mi></mml:msub></mml:math>SMC for Markovian jump systems in a finite-time. Journal of the Franklin Institute, 2021, 358, 4721-4740.	3.4	31
34	Stochastic stability and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">L</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:math>-gain analysis for positive nonlinear semi-Markov jump systems with time-varying delay via T-S fuzzy model approach. Fuzzy Sets and Systems, 2019, 371, 110-122.	2.7	29
35	Event-triggered reliable control for fuzzy Markovian jump systems with mismatched membership functions. ISA Transactions, 2017, 66, 96-104.	5.7	28
36	Stability analysis and control synthesis for positive semi-Markov jump systems with time-varying delay. Applied Mathematics and Computation, 2018, 332, 363-375.	2.2	28

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37	Asynchronous Partially Mode-Dependent Filtering of Network-Based MSRSNSs With Quantized Measurement. IEEE Transactions on Cybernetics, 2020, 50, 3731-3739.	9.5	28
38	Sampledâ€data control of asynchronously switched nonâ€linear systems via Tâ€“S fuzzy model approach. IET Control Theory and Applications, 2017, 11, 2817-2823.	2.1	27
39	Synchronization for Quantized Semi-Markov Switching Neural Networks in a Finite Time. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1264-1275.	11.3	27
40	Finite-timeH_{âˆž}control for stochastic time-delayed Markovian switching systems with partly known transition rates and nonlinearity. International Journal of Systems Science, 2016, 47, 500-508.	5.5	26
41	Further results on finite-time stabilisation for stochastic Markovian jump systems with time-varying delay. International Journal of Systems Science, 2017, 48, 2967-2975.	5.5	26
42	Robust finite-time stabilization for positive delayed semi-Markovian switching systems. Applied Mathematics and Computation, 2019, 351, 139-152.	2.2	23
43	Inputâ€“Output Finite-Time Sliding-Mode Control for Tâ€“S Fuzzy Systems With Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5446-5455.	9.3	23
44	SMC for Nonlinear Stochastic Switching Systems With Quantization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2032-2036.	3.0	23
45	Almost fast finiteâ€time adaptive tracking control for a class of fullâ€state constrained pureâ€feedback nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 7517-7532.	3.7	22
46	Hâˆž observer design for stochastic time-delayed systems with Markovian switching under partly known transition rates and actuator saturation. Applied Mathematics and Computation, 2016, 289, 80-97.	2.2	21
47	Admissibility analysis for discrete-time singular Markov jump systems with asynchronous switching. Applied Mathematics and Computation, 2017, 313, 431-441.	2.2	20
48	HMM-based adaptive attack-resilient control for Markov jump system and application to an aircraft model. Applied Mathematics and Computation, 2021, 392, 125668.	2.2	19
49	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi mathvariant="script">L</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>finite-time stabilization for positive semi-Markovian switching systems. Information Sciences, 2019, 477, 321-333.	6.9	18
50	Passivity and passification for stochastic systems with Markovian switching and generally uncertain transition rates. International Journal of Control, Automation and Systems, 2017, 15, 2174-2181.	2.7	16
51	Asynchronous control of timeâ€delayed switched systems with actuator saturation via antiâ€windup design. Optimal Control Applications and Methods, 2018, 39, 1-18.	2.1	16
52	Finiteâ€time asynchronous control for positive discreteâ€time Markovian jump systems. IET Control Theory and Applications, 2019, 13, 935-942.	2.1	16
53	Sliding Mode Control for Fuzzy Networked Semi-Markov Switching Models Under Cyber Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 5034-5038.	3.0	16
54	Passivity and passification for switching Markovian jump systems with timeâ€varying delay and generally uncertain transition rates. IET Control Theory and Applications, 2016, 10, 1944-1955.	2.1	15

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55	Disturbance-observer-based control for semi-Markovian jump systems with generally uncertain transition rate and saturation nonlinearity. Applied Mathematics and Computation, 2019, 362, 124569.	2.2	15
56	Quantized Fuzzy Finite-Time Control for Nonlinear Semi-Markov Switching Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2622-2626.	3.0	15
57	New Results on Finite-time Stabilization for Stochastic Systems with Time-varying Delay. International Journal of Control, Automation and Systems, 2018, 16, 649-658.	2.7	14
58	Data-Driven Adaptive Tracking Control of Unknown Autonomous Marine Vehicles. IEEE Access, 2018, 6, 55723-55730.	4.2	14
59	Finite-time dissipativity analysis and design for stochastic Markovian jump systems with generally uncertain transition rates and time-varying delay. Transactions of the Institute of Measurement and Control, 2017, 39, 807-819.	1.7	13
60	Stochastic Stability, â„’1-gain and Control Synthesis for Positive Semi-Markov Jump Systems. International Journal of Control, Automation and Systems, 2018, 16, 2055-2062.	2.7	13
61	Distributed event-triggered sliding mode control of switched systems. Journal of the Franklin Institute, 2019, 356, 10296-10314.	3.4	13
62	Positive L 1-gain filter design for positive continuous-time Markovian jump systems with partly known transition rates. International Journal of Control, Automation and Systems, 2016, 14, 1413-1420.	2.7	12
63	Finite-Time Passivity and Passification for Stochastic Time-Delayed Markovian Switching Systems with Partly Known Transition Rates. Circuits, Systems, and Signal Processing, 2016, 35, 3913-3934.	2.0	12
64	Stabilization for Positive Markovian Jump Systems with Actuator Saturation. Circuits, Systems, and Signal Processing, 2017, 36, 374-388.	2.0	12
65	Stability for delayed switched systems with Markov jump parameters and generally incomplete transition rates. Applied Mathematics and Computation, 2020, 365, 124718.	2.2	12
66	Asynchronous Hâˆž Control for Positive Discrete-time Markovian Jump Systems. International Journal of Control, Automation and Systems, 2020, 18, 431-438.	2.7	12
67	SMC for Semi-Markov Jump Cyber-Physical Systems Subject to Randomly Occurring Deception Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 159-163.	3.0	12
68	Observer-based resilient control of positive systems with heterogeneous DoS attacks: A Markov model approach. Journal of the Franklin Institute, 2022, 359, 272-293.	3.4	12
69	Finite-time asynchronous Hâˆž filtering for positive Markov jump systems. Journal of the Franklin Institute, 2020, 357, 11584-11603.	3.4	11
70	Event-triggered mixed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mi mathvariant="bold-script">H</mml:mi><mml:mi>âˆž</mml:mi></mml:msub></mml:math>and passive filtering for discrete-time networked singular Markovian jump systems. Applied Mathematics and Computation, 2020, 368, 124803.	2.2	10
71	SMC for semi-Markov jump T-S fuzzy systems with time delay. Applied Mathematics and Computation, 2020, 374, 125001.	2.2	10
72	L 1 control for positive Markovian jump systems with partly known transition rates. International Journal of Control, Automation and Systems, 2017, 15, 274-280.	2.7	9

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73	Advances on modeling and control of semi-Markovian switching systems: A Survey. Journal of the Franklin Institute, 2023, 360, 12598-12619.	3.4	9
74	Positive observer design for positive Markovian jump systems with mode-dependent time-varying delays and incomplete transition rates. International Journal of Control, Automation and Systems, 2017, 15, 640-646.	2.7	8
75	Stability and stabilization for positive systems with semi-Markov switching. Applied Mathematics and Computation, 2020, 379, 125252.	2.2	8
76	Composite antiâ€disturbance control for semiâ€Markovian jump systems with timeâ€varying delay and generally uncertain transition rates via disturbance observer. IET Control Theory and Applications, 2020, 14, 1877-1887.	2.1	8
77	Robust H_{â^ž} control for stochastic timeâ€delayed Markovian switching systems under partly known transition rates and â€‰actuator saturation via antiâ€windup design. Optimal Control Applications and Methods, 2016, 37, 608-626.	2.1	6
78	Dynamic Operation Management of a Renewable Microgrid including Battery Energy Storage. Mathematical Problems in Engineering, 2018, 2018, 1-19.	1.1	6
79	Disturbance-observer-based control for time-delay Markovian jump systems subject to actuator saturation. Transactions of the Institute of Measurement and Control, 2019, 41, 605-614.	1.7	6
80	Synchronization for stochastic semi-Markov jump neural networks with dynamic event-triggered scheme. Journal of the Franklin Institute, 2023, 360, 12620-12639.	3.4	6
81	SMC for Uncertain Discrete-Time Semi-Markov Switching Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1452-1456.	3.0	6
82	SMC for phase-type stochastic nonlinear semi-Markov jump systems. Nonlinear Dynamics, 2022, 108, 279-292.	5.2	6
83	Finite-Time Stabilization of Markov Switching Singularly Perturbed Models. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3535-3539.	3.0	6
84	Asynchronous Control for Discrete-time Switched Time-delay Systems with Mode-dependent Persistent Dwell-time. International Journal of Control, Automation and Systems, 2022, 20, 1205-1214.	2.7	6
85	Disturbanceâ€observerâ€“based control for Markov jump systems with timeâ€varying delay. Optimal Control Applications and Methods, 2018, 39, 575-588.	2.1	5
86	Observer design for stochastic timeâ€delayed Markovian jump systems with incomplete transition rates and actuator saturation. Optimal Control Applications and Methods, 2020, 41, 239-252.	2.1	5
87	Static Output Feedback Control for Fuzzy Systems With Stochastic Fading Channel and Actuator Faults. IEEE Access, 2020, 8, 200714-200723.	4.2	5
88	H â^ž control for sochastic time-delayed Markovian switching systems with partly known transition rates and input saturation. International Journal of Control, Automation and Systems, 2016, 14, 637-646.	2.7	4
89	Positive observer design for positive Markovian jump systems with partly known transition rates. Journal of Systems Science and Complexity, 2017, 30, 307-315.	2.8	4
90	Finite-Time $$L_2$$ L 2 â€“ $$L_infty $$ L â^ž Control for Stochastic Asynchronously Switched. Circuits, Systems, and Signal Processing, 2018, 37, 112-134.	2.0	4

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91	Two Variable-Weather-Parameter Models and Linear Equivalent Models Expressed by Them for Photovoltaic Cell. IEEE Access, 2020, 8, 184885-184900.	4.2	4
92	Non-fragile observer-based <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mi mathvariant="bold-script">H</mml:mi><mml:mi>â^ž</mml:mi></mml:msub></mml:math> finite-time sliding mode control. Applied Mathematics and Computation, 2020, 375, 125069.	2.2	4
93	Anti-disturbance control for time-varying delayed semi-Markovian jump systems with saturation and generally uncertain transition rates via disturbance observer. International Journal of Systems Science, 2021, 52, 1251-1269.	5.5	4
94	Observer-based sliding mode control for fuzzy stochastic switching systems with deception attacks. Applied Mathematics and Computation, 2022, 427, 127153.	2.2	4
95	Robust H-infinity Control for Stochastic Markovian Switching Systems Under Partly Known Transition Probabilities and Actuator Saturation via Anti-Windup Design. Circuits, Systems, and Signal Processing, 2015, 34, 2141-2165.	2.0	3
96	Positive L1-gain filter design for positive Markovian jump systems with time-varying delay and incomplete transition rates. Canadian Journal of Physics, 2016, 94, 877-883.	1.1	3
97	Finite-Time $$L_1$$ L 1 Control for Positive Markovian Jump Systems with Partly Known Transition Rates. Circuits, Systems, and Signal Processing, 2016, 35, 1751-1766.	2.0	3
98	Soft sensor modelling of acrolein conversion based on hidden Markov model of principle component analysis and fireworks algorithm. Canadian Journal of Chemical Engineering, 2019, 97, 3052-3062.	1.7	3
99	Finite-time boundedness analysis and composite anti-disturbance control for uncertain semi-Markovian jump systems with time delay. Science China Information Sciences, 2022, 65, 1.	4.3	3
100	Protocol-Based Control for Semi-Markov Jump Systems With Dynamic Quantization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4428-4432.	3.0	3
101	Passivity and passification for stochastic Markovian jump systems with incomplete transition rates and actuator saturation. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 2241-2248.	1.3	2
102	Controller design for stochastic Markovian switching systems with time-varying delay and actuator saturation. International Journal of Systems Science, 2018, 49, 2116-2128.	5.5	2
103	Soft sensor of iron tailings grade based on froth image features for reverse flotation. Transactions of the Institute of Measurement and Control, 2022, 44, 2928-2940.	1.7	2
104	Delayâ€dependent output feedback L₁ control for positive Markovian jump systems with modeâ€dependent timeâ€varying delays and partly known transition rates. Optimal Control Applications and Methods, 2017, 38, 709-719.	2.1	1
105	Disturbance-observer-based control for Markovian jump systems with saturation nonlinearity. , 2018, , .		1
106	An improved decomposition based multi-objective evolutionary algorithm for the operation management of a renewable micro-grid. Journal of Renewable and Sustainable Energy, 2019, 11, 015303.	2.0	1
107	Security Control for Networked Discrete-Time Semi-Markov Jump Systems With Round-Robin Protocol. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2812-2816.	3.0	1
108	Passive analysis and finite-time anti-disturbance control for semi-Markovian jump fuzzy systems with saturation and uncertainty. Applied Mathematics and Computation, 2022, 424, 127030.	2.2	1

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109	Security SMC for Networked Fuzzy Singular Systems With Semi-Markov Switching Parameters. IEEE Access, 2022, 10, 45093-45101.	4.2	1
110	Finite-time stability for positive Markovian jump systems with partly known transition rates. , 2015, , .		0
111	Asynchronous control for fuzzy switched systems with actuator saturations and mode-dependent average dwell time. , 2017, , .		0
112	Passification for singular Markov jump systems with stochastic disturbance and actuator saturation. , 2017, , .		0
113	Stochastic stability for positive T-S fuzzy Markovian jump systems with time delays. , 2017, , .		0
114	Disturbance-observer-based control for semi-Markovian jump systems with time-varying delay and generally uncertain transition rate. Transactions of the Institute of Measurement and Control, 2021, 43, 1571-1586.	1.7	0
115	Elapse-time-dependent SMC for discrete-time uncertain stochastic jump systems. , 2021, , .		0