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	Advances on modeling and control of semi-Markovian switching systems: A Survey. Journal of the Franklin Institute, 2023, 360, 12598-12619.	3.4	9
2	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
3	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
4	Fault Detection for Semi-Markov Switching Systems in the Presence of Positivity Constraints. IEEE Transactions on Cybernetics, 2022, 52, 13027-13037.	9.5	36
5	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
6	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
7	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
8	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
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	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
11	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
12	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
13	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
14	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
15	SMC for phase-type stochastic nonlinear semi-Markov jump systems. Nonlinear Dynamics, 2022, 108, 279-292.	5.2	6
16	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
17	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
18	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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19	Observer-based sliding mode control for fuzzy stochastic switching systems with deception attacks. Applied Mathematics and Computation, 2022, 427, 127153.	2.2	4
20	Security SMC for Networked Fuzzy Singular Systems With Semi-Markov Switching Parameters. IEEE Access, 2022, 10, 45093-45101.	4.2	1
21	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
22	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
23	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
24	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
25	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
26	A Fuzzy Lyapunov Function Approach to Positive L_l 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	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
28	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
29	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
30	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
31	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
32	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
33	SMC for Nonlinear Stochastic Switching Systems With Quantization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2032-2036.	3.0	23
34	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>â^ž</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
35	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
36	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

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37	Adaptive attack-resilient control for Markov jump system with additive attacks. Nonlinear Dynamics, 2021, 103, 1585-1598.	5.2	48
38	Elapse-time-dependent SMC for discrete-time uncertain stochastic jump systems. , 2021, , .		0
39	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
40	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
41	Stability for delayed switched systems with Markov jump parameters and generally incomplete transition rates. Applied Mathematics and Computation, 2020, 365, 124718.	2.2	12
42	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
43	Sliding Mode Control for Nonlinear Stochastic Singular Semi-Markov Jump Systems. IEEE Transactions on Automatic Control, 2020, 65, 361-368.	5.7	146
44	Asynchronous Hâˆž Control for Positive Discrete-time Markovian Jump Systems. International Journal of Control, Automation and Systems, 2020, 18, 431-438.	2.7	12
45	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
46	Finite-time asynchronous Hâˆž filtering for positive Markov jump systems. Journal of the Franklin Institute, 2020, 357, 11584-11603.	3.4	11
47	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
48	Asynchronous Partially Mode-Dependent Filtering of Network-Based MSRSNSs With Quantized Measurement. IEEE Transactions on Cybernetics, 2020, 50, 3731-3739.	9.5	28
49	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
50	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
51	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
52	Two Variable-Weather-Parameter Models and Linear Equivalent Models Expressed by Them for Photovoltaic Cell. IEEE Access, 2020, 8, 184885-184900.	4.2	4
53	Static Output Feedback Control for Fuzzy Systems With Stochastic Fading Channel and Actuator Faults. IEEE Access, 2020, 8, 200714-200723.	4.2	5
54	SMC for semi-Markov jump T-S fuzzy systems with time delay. Applied Mathematics and Computation, 2020, 374, 125001.	2.2	10

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55	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>âˆž</mml:mi></mml:msub></mml:math> finite-time sliding mode control. Applied Mathematics and Computation, 2020, 375, 125069.	2.2	4
56	A hidden mode observation approach to finite-time SOFC of Markovian switching systems with quantization. Nonlinear Dynamics, 2020, 100, 509-521.	5.2	83
57	Stability and stabilization for positive systems with semi-Markov switching. Applied Mathematics and Computation, 2020, 379, 125252.	2.2	8
58	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
59	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
60	$mathscr {L}_infty$ 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
61	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
62	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
63	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
64	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
65	Robust finite-time stabilization for positive delayed semi-Markovian switching systems. Applied Mathematics and Computation, 2019, 351, 139-152.	2.2	23
66	Finiteâ€time asynchronous control for positive discreteâ€time Markovian jump systems. IET Control Theory and Applications, 2019, 13, 935-942.	2.1	16
67	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
68	<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
69	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
70	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
71	Distributed event-triggered sliding mode control of switched systems. Journal of the Franklin Institute, 2019, 356, 10296-10314.	3.4	13
72	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

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73	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
74	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
75	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
76	Finite-Time $$L_2$$ L 2 â€“ $$L_infty $$ L âˆž Control for Stochastic Asynchronously Switched. Circuits, Systems, and Signal Processing, 2018, 37, 112-134.	2.0	4
77	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
78	Disturbanceâ€observerâ€“based control for Markov jump systems with timeâ€varying delay. Optimal Control Applications and Methods, 2018, 39, 575-588.	2.1	5
79	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
80	Data-Driven Adaptive Tracking Control of Unknown Autonomous Marine Vehicles. IEEE Access, 2018, 6, 55723-55730.	4.2	14
81	Disturbance-observer-based control for Markovian jump systems with saturation nonlinearity. , 2018, , .		1
82	Dynamic Operation Management of a Renewable Microgrid including Battery Energy Storage. Mathematical Problems in Engineering, 2018, 2018, 1-19.	1.1	6
83	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
84	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
85	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
86	Stabilization for Positive Markovian Jump Systems with Actuator Saturation. Circuits, Systems, and Signal Processing, 2017, 36, 374-388.	2.0	12
87	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
88	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
89	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
90	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

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91	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
92	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
93	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
94	Admissibility analysis for discrete-time singular Markov jump systems with asynchronous switching. Applied Mathematics and Computation, 2017, 313, 431-441.	2.2	20
95	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
96	Event-triggered reliable control for fuzzy Markovian jump systems with mismatched membership functions. ISA Transactions, 2017, 66, 96-104.	5.7	28
97	Asynchronous control for fuzzy switched systems with actuator saturations and mode-dependent average dwell time. , 2017, , .		0
98	Passification for singular Markov jump systems with stochastic disturbance and actuator saturation. , 2017, , .		0
99	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
100	Stochastic stability for positive T-S fuzzy Markovian jump systems with time delays. , 2017, , .		0
101	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
102	Hâ^ž 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
103	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
104	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
105	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
106	Dynamic output-feedback control for continuous-time interval positive systems under L1 performance. Applied Mathematics and Computation, 2016, 289, 48-59.	2.2	34
107	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
108	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

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109	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
110	Finite-timeH_{â^ž}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
111	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
112	Finite-time stability for positive Markovian jump systems with partly known transition rates. , 2015, , .		0
113	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
114	$$L_1$$ 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
115	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