Lixian Zhang

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133 10,146 47 100 g-index

146 11,993 4.5 7 L-index

#	Paper	IF	Citations
133	Stability and Stabilization of Switched Linear Systems With Mode-Dependent Average Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1809-1815	5.9	707
132	. IEEE Transactions on Industrial Informatics, 2013 , 9, 403-416	11.9	695
131	Stability and stabilization of Markovian jump linear systems with partly unknown transition probabilities. <i>Automatica</i> , 2009 , 45, 463-468	5.7	610
130	Asynchronously switched control of switched linear systems with average dwell time. <i>Automatica</i> , 2010 , 46, 953-958	5.7	560
129	Stability of switched positive linear systems with average dwell time switching. <i>Automatica</i> , 2012 , 48, 1132-1137	5.7	456
128	Necessary and Sufficient Conditions for Analysis and Synthesis of Markov Jump Linear Systems With Incomplete Transition Descriptions. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1695-1701	5.9	384
127	Analysis and Synthesis of Markov Jump Linear Systems With Time-Varying Delays and Partially Known Transition Probabilities. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2458-2464	5.9	366
126	Mode-dependent HIfiltering for discrete-time Markovian jump linear systems with partly unknown transition probabilities. <i>Automatica</i> , 2009 , 45, 1462-1467	5.7	310
125	. Automatica, 2009 , 45, 2570-2576	5.7	268
124	Asynchronous Filtering of Discrete-Time Switched Linear Systems With Average Dwell Time. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1109-1118	3.9	250
123	. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011 , 58, 2755-2764	3.9	235
122	Fault-Tolerant Sliding-Mode-Observer Synthesis of Markovian Jump Systems Using Quantized Measurements. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5910-5918	8.9	224
121	Robust extended dissipative control for sampled-data Markov jump systems. <i>International Journal of Control</i> , 2014 , 87, 1549-1564	1.5	196
120	Stability, \${I}_{2}\$ -Gain and Asynchronous \${H}_{{infty}}\$ Control of Discrete-Time Switched Systems With Average Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2192-2199	5.9	194
119	An Asynchronous Operation Approach to Event-Triggered Control for Fuzzy Markovian Jump Systems With General Switching Policies. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 6-18	8.3	191
118	Resilient Asynchronous HiFiltering for Markov Jump Neural Networks With Unideal Measurements and Multiplicative Noises. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2840-52	10.2	181
117	\$l_{2}-l_{infty}\$ Model Reduction for Switched LPV Systems With Average Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2443-2448	5.9	164

116	Non-weighted quasi-time-dependent . <i>Automatica</i> , 2015 , 54, 201-209	5.7	160
115	Hizontrol for discrete-time Markovian jump linear systems with partly unknown transition probabilities. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 868-883	3.6	160
114	Exponential HIFiltering for uncertain discrete-time switched linear systems with average dwell time: A $\bar{\mu}$ -dependent approach. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 1188-12	0 7 7 ⁶	157
113	Switched model predictive control of switched linear systems: Feasibility, stability and robustness. <i>Automatica</i> , 2016 , 67, 8-21	5.7	139
112	Distributed Filtering for Fuzzy Time-Delay Systems With Packet Dropouts and Redundant Channels. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 559-572	7.3	134
111	Delay-range-dependent control synthesis for time-delay systems with actuator saturation. <i>Automatica</i> , 2008 , 44, 2691-2695	5.7	128
110	Robust HIFiltering for switched linear discrete-time systems with polytopic uncertainties. <i>International Journal of Adaptive Control and Signal Processing</i> , 2006 , 20, 291-304	2.8	122
109	Control of Switched Nonlinear Systems via TB Fuzzy Modeling. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 235-241	8.3	111
108	. IEEE Transactions on Industrial Electronics, 2014 , 61, 4161-4170	8.9	111
107	Input-Output Approach to Control for Fuzzy Markov Jump Systems With Time-Varying Delays and Uncertain Packet Dropout Rate. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2449-60	10.2	109
106	Stability and Stabilization of a Class of Multimode Linear Discrete-Time Systems With Polytopic Uncertainties. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3684-3692	8.9	106
105	Asynchronously switched control of a class of slowly switched linear systems. <i>Systems and Control Letters</i> , 2012 , 61, 1151-1156	2.4	92
104	Robust Finite-Time Control of Switched Linear Systems and Application to a Class of Servomechanism Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2476-2485	5.5	90
103	Fault detection for discrete-time Markov jump linear systems with partially known transition probabilities. <i>International Journal of Control</i> , 2010 , 83, 1564-1572	1.5	89
102	Fault Estimation Sliding-Mode Observer With Digital Communication Constraints. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3434-3441	5.9	86
101	Stability and Stabilization of Semi-Markov Jump Linear Systems With Exponentially Modulated Periodic Distributions of Sojourn Time. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2870-2885	5.9	86
100	Energy-to-peak state estimation for Markov jump RNNs with time-varying delays via nonsynchronous filter with nonstationary mode transitions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2346-56	10.3	80
99	HImodel reduction for uncertain switched linear discrete-time systems. <i>Automatica</i> , 2008 , 44, 2944-294	95.7	78

98	Robust Stabilization of a Wheeled Mobile Robot Using Model Predictive Control Based on Neurodynamics Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 505-516	8.9	77
97	A sliding mode approach to robust stabilisation of Markovian jump linear time-delay systems with generally incomplete transition rates. <i>Nonlinear Analysis: Hybrid Systems</i> , 2015 , 17, 70-80	4.5	75
96	A novel Lyapunov function for a non-weightedL2 gain of asynchronously switched linear systems. <i>Automatica</i> , 2018 , 87, 310-317	5.7	74
95	Uniform Tube Based Stabilization of Switched Linear Systems With Mode-Dependent Persistent Dwell-Time. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2994-2999	5.9	67
94	Distributed State Estimation of Sensor-Network Systems Subject to Markovian Channel Switching With Application to a Chemical Process. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 864-874	7.3	67
93	Robust Control of Networked Systems With Variable Communication Capabilities and Application to a Semi-Active Suspension System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2097-2107	5.5	67
92	Robust stability criterion for discrete-time uncertain Markovian jumping neural networks with defective statistics of modes transitions. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 164-70		66
91	Fuzzy model-based predictive control of dissolved oxygen in activated sludge processes. <i>Neurocomputing</i> , 2014 , 136, 88-95	5.4	63
90	Stabilization of hidden semi-Markov jump systems: Emission probability approach. <i>Automatica</i> , 2019 , 101, 87-95	5.7	51
89	Improved Results on Asymptotic Stabilization for Stochastic Nonlinear Time-Delay Systems With Application to a Chemical Reactor System. <i>IEEE Transactions on Systems, Man, and Cybernetics:</i> Systems, 2017 , 47, 195-204	7.3	50
88	Constrained model predictive control for time-varying delay systems: Application to an active car suspension. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 51-58	2.9	49
87	Stability and Stabilization of a Class of Discrete-Time Fuzzy Systems With Semi-Markov Stochastic Uncertainties. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems,</i> 2016 , 46, 1642-1653	7-3	48
86	Hitontrol for asynchronously switched linear parameter-varying systems with mode-dependent average dwell time. <i>IET Control Theory and Applications</i> , 2013 , 7, 673-683	2.5	46
85	Mode-identifying time estimation and switching-delay tolerant control for switched systems: An elementary time unit approach. <i>Automatica</i> , 2016 , 64, 174-181	5.7	44
84	H Imodel reduction for discrete-time Markov jump linear systems with partially known transition probabilities. <i>International Journal of Control</i> , 2009 , 82, 343-351	1.5	44
83	Observed-Mode-Dependent State Estimation of Hidden Semi-Markov Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 442-449	5.9	43
82	Stability and stabilization of a class of stochastic switching systems with lower bound of sojourn time. <i>Automatica</i> , 2018 , 92, 18-28	5.7	42
81	Hiltontrol of switched linear discrete-time systems with polytopic uncertainties. <i>Optimal Control Applications and Methods</i> , 2006 , 27, 273-291	1.7	41

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80	Robust stability analysis of Markov jump standard genetic regulatory networks with mixed time delays and uncertainties. <i>Neurocomputing</i> , 2013 , 110, 44-50	5.4	40
79	control of a class of discrete-time Markov jump linear systems with piecewise-constant TPs subject to average dwell time switching. <i>Journal of the Franklin Institute</i> , 2012 , 349, 1989-2003	4	39
78	Extended finite-time Hitontrol for uncertain switched linear neutral systems with time-varying delays. <i>Neurocomputing</i> , 2015 , 152, 377-387	5.4	36
77	Formation control of impulsive networked autonomous underwater vehicles under fixed and switching topologies. <i>Neurocomputing</i> , 2015 , 147, 291-298	5.4	36
76	Semi-Markov Jump Linear Systems With Incomplete Sojourn and Transition Information: Analysis and Synthesis. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 159-174	5.9	36
75	Asynchronous Filtering for Discrete-Time Fuzzy Affine Systems With Variable Quantization Density. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 153-164	10.2	35
74	New results on robust finite-time boundedness of uncertain switched neural networks with time-varying delays. <i>Neurocomputing</i> , 2015 , 151, 522-530	5.4	35
73	EDependent model reduction for uncertain discrete-time switched linear systems with average dwell time. <i>International Journal of Control</i> , 2009 , 82, 378-388	1.5	35
72	Nonstationary Hdynamic output feedback control for discrete-time Markov jump linear systems with actuator and sensor saturations. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1010-1025	3.6	34
71	H Ifiltering for a class of switched linear parameter varying systems. <i>International Journal of Systems Science</i> , 2011 , 42, 781-788	2.3	33
70	Optimal Control of DC-DC Buck Converter via Linear Systems With Inaccessible Markovian Jumping Modes. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1820-1827	4.8	32
69	p-Times differentiable unbounded functions for robust control of uncertain switched nonlinear systems with tracking constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 2965	-2983	32
68	Analysis and synthesis for networked control systems with uncertain rate of packet losses. <i>Journal of the Franklin Institute</i> , 2012 , 349, 2500-2514	4	32
67	Observer-Based Stabilization of Nonhomogeneous Semi-Markov Jump Linear Systems With Mode-Switching Delays. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2029-2036	5.9	31
66	Finite-time control for networked switched linear systems with an event-driven communication approach. <i>International Journal of Systems Science</i> , 2017 , 48, 236-246	2.3	30
65	Adaptive stabilization of impulsive switched linear time-delay systems: A piecewise dynamic gain approach. <i>Automatica</i> , 2019 , 103, 322-329	5.7	30
64	Passivity and passification for Markov jump genetic regulatory networks with time-varying delays. <i>Neurocomputing</i> , 2014 , 136, 321-326	5.4	29
63	Control Synthesis of Hidden Semi-Markov Uncertain Fuzzy Systems via Observations of Hidden Modes. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3709-3718	10.2	28

62	Stability analysis and stabilization of discrete-time non-homogeneous semi-Markov jump linear systems: A polytopic approach. <i>Automatica</i> , 2020 , 120, 109080	5.7	23
61	Analysis and synthesis for a class of stochastic switching systems against delayed mode switching: A framework of integrating mode weights. <i>Automatica</i> , 2019 , 99, 99-111	5.7	23
60	Fault Detection, Isolation, andTolerant Control of Vehicles using Soft Computing Methods. <i>IET Control Theory and Applications</i> , 2014 , 8, 655-657	2.5	21
59	. Neurocomputing, 2015 , 157, 306-314	5.4	21
58	State estimation via Markov switching-channel network and application to suspension systems. <i>IET Control Theory and Applications</i> , 2017 , 11, 411-419	2.5	18
57	Switched linear parameter-varying modeling and tracking control for flexible hypersonic vehicle. <i>Aerospace Science and Technology</i> , 2019 , 95, 105445	4.9	18
56	A common linear copositive Lyapunov function for switched positive linear systems with commutable subsystems. <i>International Journal of Systems Science</i> , 2013 , 44, 1994-2003	2.3	18
55	Model reduction of A class of Markov jump nonlinear systems with time-varying delays via projection approach. <i>Neurocomputing</i> , 2015 , 166, 436-446	5.4	17
54	Model reduction for a class of nonstationary Markov jump linear systems. <i>Journal of the Franklin Institute</i> , 2012 , 349, 2445-2460	4	17
53	Actor-Critic Reinforcement Learning for Control With Stability Guarantee. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 6217-6224	4.2	17
52	Stabilization of non-homogeneous hidden semi-Markov Jump systems with limited sojourn-time information. <i>Automatica</i> , 2020 , 117, 108963	5.7	17
51	. Neurocomputing, 2015 , 165, 414-422	5.4	16
50	Reliable finite-time filtering for impulsive switched linear systems with sensor failures. <i>Signal Processing</i> , 2016 , 125, 134-144	4.4	16
49	. IEEE Transactions on Automatic Control, 2021 , 66, 2250-2256	5.9	16
48	A $\bar{\mu}$ -dependent approach to H $\bar{\mu}$ ontrol of uncertain switched linear systems with average dwell time. <i>Optimal Control Applications and Methods</i> , 2011 , 32, 15-27	1.7	15
47	Fuzzy modeling approach to predictions of chemical oxygen demand in activated sludge processes. <i>Information Sciences</i> , 2013 , 235, 55-64	7.7	14
46	Control design for a hypersonic aircraft using a switched linear parameter-varying system approach. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2013 , 227, 85-95	1	13
45	Time-varying gain-scheduling -error mean square stabilisation of semi-Markov jump linear systems. <i>IET Control Theory and Applications</i> , 2016 , 10, 1215-1223	2.5	13

Switched Adaptive Control of Air Handling Units With Discrete and Saturated Actuators 2018, 2, 417-422 12 44 . Journal of the Franklin Institute, **2016**, 353, 1358-1385 43 11 4 Stability and Stabilization of Discrete-Time Semi-Markov Jump Linear Systems via Semi-Markov 42 5.9 11 Kernel Approach. IEEE Transactions on Automatic Control, 2015, 1-1 Stabilisation of Markov jump linear systems subject to both state and mode detection delays. IET 41 2.5 11 Control Theory and Applications, 2014, 8, 260-266 Reinforcement learning control of constrained dynamic systems with uniformly ultimate 40 5.7 11 boundedness stability quarantee. Automatica, 2021, 129, 109689 Hybrid filter design of fault detection for networked linear systems with variable packet dropout 39 2.5 10 rate. IET Control Theory and Applications, 2019, 13, 1239-1245 Benefits of redundant channels in observer-based H Itontrol for discrete-time switched linear 38 9 3.5 systems. Science China Technological Sciences, **2016**, 59, 55-62 Safe Reinforcement Learning With Stability Guarantee for Motion Planning of Autonomous 10.3 9 37 Vehicles. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5435-5444 HIFuzzy control of semi-Markov jump nonlinear systems under Eerror mean square stability. 8 36 2.3 International Journal of Systems Science, 2017, 48, 2291-2299 Mode-mismatched estimator design for Markov jump genetic regulatory networks with random 8 35 5.4 time delays. Neurocomputing, 2015, 168, 1121-1131 Resilient model approximation for Markov jump time-delay systems via reduced model with 8 2.3 34 hierarchical Markov chains. International Journal of Systems Science, 2016, 47, 3496-3507 Himodel reduction of switched LPV systems via semi-time-varying reduced-order model. Systems 33 2.4 7 and Control Letters, **2016**, 98, 25-32 Time-varying filter design for semi-Markov jump linear systems with intermittent transmission. 3.6 6 32 International Journal of Robust and Nonlinear Control, 2017, 27, 4035 Stability and Stabilization of Discrete-time Markov Jump Piecewise-affine Systems. IFAC Postprint 6 31 Volumes IPPV / International Federation of Automatic Control, **2014**, 47, 10475-10480 Fault detection for discrete-time Markov jump linear systems with partially known transition 6 30 probabilities 2008, Nonsynchronized State Estimation for Fuzzy Markov Jump Affine Systems With Switching Region 29 10.2 Partitions. IEEE Transactions on Cybernetics, 2020, PP, Stabilization of a class of fuzzy stochastic jump systems with partial information on jump and 28 3.5 5 sojourn parameters. Science China Technological Sciences, 2021, 64, 353-363 Autonomous and Adaptive Navigation for Terrestrial-Aerial Bimodal Vehicles. IEEE Robotics and 27 Automation Letters, **2022**, 7, 3008-3015

26	Tracking control of hybrid systems with state-triggered jumps and stochastic events and its application. <i>IET Control Theory and Applications</i> , 2017 , 11, 1024-1033	2.5	3
25	A BRL for A Class of Discrete-time Markov Jump Linear System with Piecewise-Constant TPs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8699-8704		3
24	Discrete-time Markovian jump linear systems with partly unknown transition probabilities: HI filtering problem 2008 ,		3
23	Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 401	6 ⁷ 4 0 27	7 3
22	Guaranteed performance control of switched linear systems: A differential-Riccati-equation-based approach. <i>Peer-to-Peer Networking and Applications</i> , 2019 , 12, 1810-1819	3.1	2
21	Control for discrete-time fuzzy Markov jump systems with mode-dependent antecedent parts 2014		2
20	Delay-dependent energy-to-peak filter design for stochastic systems with time delay: A delay partitioning approach 2009 ,		2
19	Stability and stabilization of discrete-time semi-Markov jump linear systems with delay in controller mode switching 2016 ,		2
18	Observation for Markov Jump Piecewise-Affine Systems With Admissible Region-Switching Paths. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 4319-4326	5.9	2
17	Finite-time switched LPV control of quadrotors with guaranteed performance. <i>Journal of the Franklin Institute</i> , 2021 , 358, 7032-7054	4	2
16	Semi-Markov jump linear systems with bi-boundary sojourn time: Anti-modal-asynchrony control. <i>Automatica</i> , 2022 , 140, 110270	5.7	2
15	A New Approach to H Model Reduction for Positive Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 3809-3814		1
14	Network-Based Finite-time Sampled-data Observer Design for Switched Linear Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 590-595	0.7	1
13	Reference tracking control of hypersonic vehicles using switched linear parameter-varying approach 2013 ,		1
12	Model Reduction for Switched Linear Discrete-Time Systems with polytopic uncertainties and arbitrary switching. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 7666-7671		1
11	Switched linear parameter-varying tracking control for quadrotors with large attitude angles and time-varying inertia. <i>Optimal Control Applications and Methods</i> , 2021 , 42, 1320-1336	1.7	1
10	A novel control approach for piecewise-affine systems with quantization in both measurement outputs and control inputs 2016 ,		1
9	Synchronization Control With Adaptive Friction Compensation of Treadmill-Based Testing Apparatus for Wheeled Planetary Rover. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1

LIST OF PUBLICATIONS

8	Stability and Control of Fuzzy Semi-Markov Jump Systems Under Unknown Semi-Markov Kernel. IEEE Transactions on Fuzzy Systems, 2021 , 1-1	8.3	1	
7	Cyber-Physical Control. <i>Complexity</i> , 2018 , 2018, 1-2	1.6	1	
6	Tube-based attitude control of rigid-bodies with magnitude-bounded disturbances. <i>Automatica</i> , 2021 , 133, 109845	5.7	1	
5	New Results on Stabilization of Stochastic Switching Systems Subject to Partly Available Semi-Markov Kernel. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1930-1935	0.7	O	
4	Guaranteed cost control of rigid-body attitude systems under control saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 2393-2410	3.6	O	
3	Time-Delay Switched Systems. Studies in Systems, Decision and Control, 2016, 205-255	0.8		
2	Stabilization of Continuous-Time Markov Jump Linear Systems with Defective Statistics of Modes Transitions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8693	3-8698		
1	Finite-time bounded control for quadrotors with extended dissipative performance using a switched system approach. <i>Transactions of the Institute of Measurement and Control</i> ,01423312221085	1 1.8		