

# Hongbin Zhang

## List of Publications by Year in descending order

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148  
papers

2,310  
citations

218592

26  
h-index

265120

42  
g-index

148  
all docs

148  
docs citations

148  
times ranked

1291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis for discrete-time switched systems with unstable subsystems by a mode-dependent average dwell time approach. ISA Transactions, 2014, 53, 1081-1086.	3.1	123
2	Stability analysis and H/sub /spl infin// controller design of fuzzy large-scale systems based on piecewise Lyapunov functions. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 685-698.	5.5	100
3	Delay-dependent stability and control for a class of fuzzy descriptor systems with time-delay. Fuzzy Sets and Systems, 2009, 160, 1689-1707.	1.6	87
4	Stability Analysis and $H_{\infty}$ Controller Design of Discrete-Time Fuzzy Large-Scale Systems Based on Piecewise Lyapunov Functions. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1390-1401.	5.5	84
5	Fuzzy modeling and synchronization of hyperchaotic systems. Chaos, Solitons and Fractals, 2005, 26, 835-843.	2.5	83
6	The Exponential Stability and Asynchronous Stabilization of a Class of Switched Nonlinear System Via the Tâ€™S Fuzzy Model. IEEE Transactions on Fuzzy Systems, 2014, 22, 817-828.	6.5	80
7	Delay-Dependent Decentralized $H_{\infty}$ Filtering for Discrete-Time Nonlinear Interconnected Systems With Time-Varying Delay Based on the Tâ€™S Fuzzy Model. IEEE Transactions on Fuzzy Systems, 2012, 20, 431-443.	6.5	76
8	Exponential Stability of Switched Systems with Unstable Subsystems: A Mode-Dependent Average Dwell Time Approach. Circuits, Systems, and Signal Processing, 2013, 32, 3093-3105.	1.2	71
9	Hâ€™ Filtering for a class of nonlinear switched systems with stable and unstable subsystems. Signal Processing, 2017, 141, 240-248.	2.1	60
10	Delay-dependent robust stability of uncertain fuzzy large-scale systems with time-varying delays. Automatica, 2008, 44, 193-198.	3.0	53
11	Decentralized Fuzzy $H_{\infty}$ Filtering for Nonlinear Interconnected Systems With Multiple Time Delays. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1197-1203.	5.5	52
12	Kernel Recursive Generalized Maximum Correntropy. IEEE Signal Processing Letters, 2017, 24, 1832-1836.	2.1	48
13	Asynchronous control of discrete-time impulsive switched systems with mode-dependent average dwell time. ISA Transactions, 2014, 53, 367-372.	3.1	43
14	Asynchronous Hâ€™ fuzzy control for a class of switched nonlinear systems via switching fuzzy Lyapunov function approach. Neurocomputing, 2016, 182, 178-186.	3.5	39
15	Decentralized $H_{\infty}$ Filter Design for Discrete-Time Interconnected Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 1428-1440.	6.5	37
16	Stability Analysis and Constrained Control of a Class of Fuzzy Positive Systems with Delays Using Linear Copositive Lyapunov Functional. Circuits, Systems, and Signal Processing, 2012, 31, 1863-1875.	1.2	36
17	New results on stability of switched continuous-time systems with all subsystems unstable. ISA Transactions, 2019, 87, 28-33.	3.1	36
18	A novel event-triggered strategy for networked switched control systems. Journal of the Franklin Institute, 2021, 358, 251-267.	1.9	35

#	ARTICLE	IF	CITATIONS
19	Exponential stability and robust $H_\infty$ control of a class of discrete-time switched non-linear systems with time-varying delays via T-S fuzzy model. <i>International Journal of Systems Science</i> , 2014, 45, 1112-1127.	3.7	34
20	Mixed $H_\infty$ and passive control for a class of nonlinear switched systems with average dwell time via hybrid control approach. <i>Journal of the Franklin Institute</i> , 2018, 355, 1156-1175.	1.9	32
21	Stability, $L_2$ -gain and asynchronous $H_\infty$ control for continuous-time switched systems. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 575-587.	2.1	31
22	Consensus analysis of multi-agent systems under switching topologies by a topology-dependent average dwell time approach. <i>IET Control Theory and Applications</i> , 2017, 11, 429-438.	1.2	31
23	Dwell time stability and stabilization of interval discrete-time switched positive linear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019, 33, 116-129.	2.1	31
24	Asynchronous $L_1$ -gain control of uncertain switched positive linear systems with dwell time. <i>ISA Transactions</i> , 2018, 75, 25-37.	3.1	29
25	Robust Exponential $H_\infty$ Filtering for Discrete-Time Switched Fuzzy Systems with Time-Varying Delay. <i>Circuits, Systems, and Signal Processing</i> , 2016, 35, 117-138.	1.2	27
26	Generalized maximum correntropy algorithm with affine projection for robust filtering under impulsive-noise environments. <i>Signal Processing</i> , 2020, 172, 107524.	2.1	27
27	Delay-dependent decentralised $H_\infty$ filtering for fuzzy interconnected systems with time-varying delay based on Takagi-Sugeno fuzzy model. <i>IET Control Theory and Applications</i> , 2013, 7, 720-729.	1.2	26
28	Finite-Time Stabilization of Discrete-Time Switched Nonlinear Systems Without Stable Subsystems via Optimal Switching Signal Design. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 172-180.	6.5	26
29	Piecewise $H_\infty$ Controller Design of Uncertain Discrete-Time Fuzzy Systems With Time Delays. <i>IEEE Transactions on Fuzzy Systems</i> , 2008, 16, 1649-1655.	6.5	25
30	Robust stability and $L_1$ -gain analysis of interval positive switched T-S fuzzy systems with mode-dependent dwell time. <i>Neurocomputing</i> , 2017, 235, 90-97.	3.5	25
31	Stability and Constrained Control of a Class of Discrete-Time Fuzzy Positive Systems with Time-Varying Delays. <i>Circuits, Systems, and Signal Processing</i> , 2013, 32, 889-904.	1.2	24
32	Global exponential stability of impulsive fuzzy Cohen-Grossberg neural networks with mixed delays and reaction-diffusion terms. <i>Neurocomputing</i> , 2012, 91, 67-76.	3.5	23
33	Asynchronous $H_\infty$ filtering for linear switched systems with average dwell time. <i>International Journal of Systems Science</i> , 2016, 47, 2783-2791.	3.7	22
34	A novel approach to $L_1$ filter design for asynchronously switched positive linear systems with dwell time. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 5957-5978.	2.1	21
35	Stability, $L_1$ -gain analysis and asynchronous $L_1$ -gain control of uncertain discrete-time switched positive linear systems with dwell time. <i>Journal of the Franklin Institute</i> , 2019, 356, 382-406.	1.9	21
36	Equivalence of several stability conditions for switched linear systems with dwell time. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 306-331.	2.1	21

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37	HYPERCHAOS IN THE FRACTIONAL-ORDER NONAUTONOMOUS CHEN'S SYSTEM AND ITS SYNCHRONIZATION. International Journal of Modern Physics C, 2005, 16, 815-826.	0.8	20
38	LMI-based stability analysis of fuzzy large-scale systems with time delays. Chaos, Solitons and Fractals, 2005, 25, 1193-1207.	2.5	19
39	Fixed-point generalized maximum correntropy: Convergence analysis and convex combination algorithms. Signal Processing, 2019, 154, 64-73.	2.1	19
40	Flocking of quad-rotor UAVs with fuzzy control. ISA Transactions, 2018, 74, 185-193.	3.1	18
41	Consensus of multi-agent systems with faults and mismatches under switched topologies using a delta operator method. Neurocomputing, 2018, 315, 198-209.	3.5	18
42	Mixed $H_2$ and passive control for linear switched systems via hybrid control approach. International Journal of Systems Science, 2018, 49, 818-832.	3.7	17
43	Gaussian kernel adaptive filters with adaptive kernel bandwidth. Signal Processing, 2020, 166, 107270.	2.1	16
44	Delay-segment-dependent robust stability for uncertain discrete stochastic Markovian jumping systems with interval time delay. International Journal of Systems Science, 2014, 45, 271-282.	3.7	15
45	Mixed $H_\infty$ $H_2$ and Passive Filtering for A Class of Nonlinear Switched Systems with Unstable Subsystems. International Journal of Fuzzy Systems, 2018, 20, 769-781.	2.3	15
46	Affine projection mixed-norm algorithms for robust filtering. Signal Processing, 2021, 187, 108153.	2.1	15
47	Stability and asynchronous stabilization for a class of discrete-time switched nonlinear systems with stable and unstable subsystems. International Journal of Control, Automation and Systems, 2017, 15, 986-994.	1.6	14
48	Results on stability of switched discrete-time systems with all subsystems unstable. IET Control Theory and Applications, 2019, 13, 152-158.	1.2	14
49	Asynchronous $H_2$ Filtering for Switched Tâ€S Fuzzy Systems and Its Application to the Continuous Stirred Tank Reactor. International Journal of Fuzzy Systems, 2018, 20, 1470-1482.	2.3	13
50	Projected Kernel Recursive Maximum Correntropy. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 963-967.	2.2	13
51	Finite-time event-triggered extended dissipative control for discrete time switched linear systems. International Journal of General Systems, 2019, 48, 476-491.	1.2	13
52	New result on robust stability of switched systems with all subsystems unstable. IET Control Theory and Applications, 2019, 13, 2138-2145.	1.2	13
53	Stability of asynchronous switched systems with sequence-based average dwell time approaches. Journal of the Franklin Institute, 2020, 357, 2149-2166.	1.9	13
54	Quantized stabilization for switched affine systems with eventâ€triggered mechanism. International Journal of Robust and Nonlinear Control, 2021, 31, 4052-4063.	2.1	13

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55	Controlling chaotic Chua's circuit based on piecewise quadratic Lyapunov functions method. <i>Chaos, Solitons and Fractals</i> , 2004, 22, 1053-1061.	2.5	12
56	Using an Adjusted Serfling Regression Model to Improve the Early Warning at the Arrival of Peak Timing of Influenza in Beijing. <i>PLoS ONE</i> , 2015, 10, e0119923.	1.1	12
57	Mixed $H_\infty$ and passive filtering for switched Takagi-Sugeno fuzzy systems with average dwell time. <i>ISA Transactions</i> , 2018, 75, 52-63.	3.1	12
58	Asynchronous $H_\infty$ Control of Discrete-Time Switched T-S Fuzzy Systems with Dwell Time. <i>International Journal of Fuzzy Systems</i> , 2018, 20, 1098-1114.	2.3	12
59	Positive observer design for switched positive T-S fuzzy delayed systems with dwell time constraints. <i>ISA Transactions</i> , 2020, 96, 37-50.	3.1	12
60	Robust Stabilization of Continuous-Time Nonlinear Switched Systems Without Stable Subsystems via Maximum Average Dwell Time. <i>Circuits, Systems, and Signal Processing</i> , 2017, 36, 1654-1670.	1.2	11
61	New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 6564-6575.	5.9	11
62	Accurate Smoothing Methods for State Estimation of Continuous-Discrete Nonlinear Dynamic Systems. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 4284-4291.	3.6	10
63	Recursive constrained generalized maximum correntropy algorithms for adaptive filtering. <i>Signal Processing</i> , 2022, 199, 108611.	2.1	10
64	Non-fragile filtering for large-scale power systems with sensor networks. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 968-977.	1.4	9
65	Decentralized Non-Fragile Event-Triggered $H_\infty$ Filtering for Large-Scaled Power System Based on T-S Fuzzy Model. <i>IEEE Access</i> , 2018, 6, 64540-64548.	2.6	9
66	Consensus of the Second-order Multi-agent Systems under Asynchronous Switching with a Controller Fault. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 136-144.	1.6	9
67	Modified Combined-Step-Size Affine Projection Sign Algorithms for Robust Adaptive Filtering in Impulsive Interference Environments. <i>Symmetry</i> , 2020, 12, 385.	1.1	9
68	New Results on Stability Analysis and Estimator Design for Switched Positive Linear Systems: A Reverse-Timer-Dependent Linear Co-Positive Lyapunov Function Approach. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 697-701.	2.2	9
69	Event-triggered Control of Discrete-time Switched Linear Systems with an Arbitrary Sampling Period. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 279-288.	1.6	9
70	Dynamic Output Feedback Control of Discrete-Time Switched Affine Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 2523-2527.	2.2	9
71	Event-triggered finite-time guaranteed cost control for networked Takagi-Sugeno (T-S) fuzzy switched systems under denial of service attacks. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 5764-5775.	2.1	9
72	Asynchronous stabilisation of impulsive switched systems. <i>IET Control Theory and Applications</i> , 2013, 7, 2021-2027.	1.2	8



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91	$H_{\infty}$ -to- $H_{\infty}$ interval observation design for discrete-time switched linear systems under dwell time constraint. <i>International Journal of Systems Science</i> , 2020, 51, 759-770.	3.7	5
92	Modified memory-improved proportionate affine projection sign algorithm based on correntropy induced metric for sparse system identification. <i>Electronics Letters</i> , 2018, 54, 630-632.	0.5	5
93	Practical stability for switched affine systems via time-dependent switching function. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 9731-9744.	2.1	5
94	Projected Kernel Least Mean Squares Power Algorithm: Convergence Analyses and Modifications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 3498-3511.	3.5	5
95	An Approach to $H_{\infty}$ Control of a Class of Nonlinear Stochastic Systems. <i>Circuits, Systems, and Signal Processing</i> , 2012, 31, 127-141.	1.2	4
96	Mixed and passive filtering for linear switched systems with average dwell time. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 316-329.	2.3	4
97	Variable learning rates kernel adaptive filter with single feedback. , 2018, 83, 59-72.		4
98	New alternative convex conditions on exponential stability and stabilisation of switched positive linear systems with dwell time. <i>IET Control Theory and Applications</i> , 2019, 13, 620-631.	1.2	4
99	Stability Analysis of Discrete-Time Switched T-S Fuzzy Systems With All Subsystems Unstable. <i>IEEE Access</i> , 2019, 7, 50412-50418.	2.6	4
100	Unified mode-dependent average dwell time stability criteria for discrete-time switched systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 5356-5368.	2.1	4
101	Non-weighted Asynchronous $H_{\infty}$ Filtering for Continuous-Time Switched Fuzzy Systems. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 1892-1904.	2.3	4
102	Event-triggered $H_{\infty}$ Filtering of Continuous-time Switched Linear Systems with Overlapped Mismatching Intervals. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 3368-3378.	1.6	4
103	State estimation for discrete-time switched positive Takagi-Sugeno fuzzy systems under dwell time constraint. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021, 41, 101053.	2.1	4
104	LMI-based approach for stability analysis of fuzzy large-scale system with time delays. , 0, , .		3
105	Stability analysis and decentralized $H_{\infty}$ control for time-delay fuzzy interconnected systems via fuzzy Lyapunov-Krasovskii functional. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 26, 1731-1744.	0.8	3
106	Switched and Iterated Square-Root Gauss-Hermite Filter for Passive Target Tracking. <i>Circuits, Systems, and Signal Processing</i> , 2018, 37, 5463-5485.	1.2	3
107	Asynchronous $H_{\infty}$ filtering for time delayed APF with MDADT based on Takagi-Sugeno fuzzy model. <i>Asian Journal of Control</i> , 2020, 22, 2049-2060.	1.9	3
108	Generalized Correntropy Induced Metric Memory-Improved Proportionate Affine Projection Sign Algorithm and Its Combination. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2239-2243.	2.2	3

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109	Asynchronous event-triggered finite-time control for networked switched T&S fuzzy systems. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	3
110	Generalized correntropy induced metric based total least squares for sparse system identification. <i>Neurocomputing</i> , 2022, 467, 66-72.	3.5	3
111	Stability Analysis and H infinity Decentralized Control for Discrete-Time Nonlinear Large-Scale Systems via Fuzzy Control Approach. , 2009, , .		2
112	Decentralized mixed $H_2/H_\infty$ filtering for discrete time fuzzy large-scale systems. <i>International Journal of General Systems</i> , 2011, 40, 513-529.	1.2	2
113	Observer-based Control of Discrete-Time Fuzzy Positive Systems with Time Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 635-639.	0.4	2
114	Research on the Transformation of Control Protocols among Three Kinds of Cooperative Control for Multi-agent Systems. , 2016, , .		2
115	Nonfragile H $\infty$ Filtering for Discrete-Time Nonlinear Interconnected Systems. <i>IFAC-PapersOnLine</i> , 2016, 49, 25-30.	0.5	2
116	Robust stability analysis of discrete-time switched linear systems with stable and unstable subsystems via switching parameter-dependent Lyapunov functions. , 2016, , .		2
117	Stability and controller design of switched systems with sequence-based average dwell time. <i>International Journal of Control</i> , 2022, 95, 651-659.	1.2	2
118	Asynchronous Event-Triggered Finite-Time Filtering for Networked Switched T&S Fuzzy Systems. <i>Circuits, Systems, and Signal Processing</i> , 2021, 40, 4279-4300.	1.2	2
119	Least mean p-power algorithms with generalized correntropy. <i>Signal Processing</i> , 2021, 185, 108058.	2.1	2
120	Finite-time extended dissipative analysis for a class of discrete time switched linear systems. <i>IFAC-PapersOnLine</i> , 2019, 52, 145-150.	0.5	2
121	Global exponential stability and $H_\infty$ control of limit cycle for switched affine systems under time-dependent switching signal. <i>Applied Mathematics and Computation</i> , 2022, 423, 126807.	1.4	2
122	Impulsive modeling of nonlinear delay system and its stability. , 2008, , .		1
123	Decentralised $H_\infty$ filtering of interconnected discrete-time fuzzy systems with time delays. <i>International Journal of Systems Science</i> , 2012, 43, 1534-1544.	3.7	1
124	H $\infty$ Control of Piecewise-Linear Systems Under Unreliable Communication Links. <i>Circuits, Systems, and Signal Processing</i> , 2012, 31, 1297-1318.	1.2	1
125	Stability analysis for switched nonlinear system via switching fuzzy Lyapunov function approach. , 2014, , .		1
126	H-infinity filtering for gene regulatory networks with time-varying delay based on the T-S fuzzy model. , 2016, , .		1



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127	New results on state feedback control for a class of switched nonlinear systems. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1147-1156.	0.8	1
128	Projected Kernel Recursive Least Squares Algorithm. Lecture Notes in Computer Science, 2017, , 356-365.	1.0	1
129	Stability Analysis of Switched System with All Subsystems Unstable under MDADT Criteria. , 2018, , .		1
130	Accurate Gaussian Sum-filter for Continuous-discrete Nonlinear Systems with Non-Gaussian Noise. , 2018, , .		1
131	Non-Weighted $L_2$ -Gain Control for Asynchronously Switched Linear Systems With Detectable Switching Instants and Ranged Mode-Identifying Time. IEEE Access, 2019, 7, 151610-151617.	2.6	1
132	Consensus of Second-Order Multi-Agent Systems Without a Spanning Tree: A Sequence-Based Topology-Dependent Method. IEEE Access, 2020, 8, 162209-162217.	2.6	1
133	Iterated posterior linearization filters and smoothers with cross-correlated noises. ISA Transactions, 2020, 100, 264-274.	3.1	1
134	Unified stability criteria for continuous-time switched T&S fuzzy systems. IET Control Theory and Applications, 2020, 14, 2455-2461.	1.2	1
135	A note on the robust stability of Lur&#x2019;s systems with time delay. , 2008, , .		0
136	Passivity and passification of uncertain discrete-time fuzzy systems. , 2008, , .		0
137	Impulsive modeling and control of a new chaotic system. , 2008, , .		0
138	Stabilization of a class of piecewise-linear systems with random packet losses. , 2009, , .		0
139	Decentralized fuzzy H&inf; filtering for fuzzy large-scale systems. , 2009, , .		0
140	Relaxed delay-dependent exponential stability condition for a class of neural networks with polytopic uncertainties and distributed delays. Journal of Control Theory and Applications, 2011, 9, 302-306.	0.8	0
141	Single sample face recognition with Gabor feature based linear regression. , 2014, , .		0
142	Stability Analysis of Stochastic Fuzzy Neural Networks with Time-Varying Delays and Reaction&#x2014;Diffusion Terms. Circuits, Systems, and Signal Processing, 2014, 33, 713-732.	1.2	0
143	Piecewise quadratic stability analysis combined with time information for hybrid system. , 2016, , .		0
144	Dual stability conditions for discrete-time positive linear systems with controller failure and polytopic uncertainties. , 2020, , .		0

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145	Event-Triggered Feedback Control for Continuous-Time Switched Affine Systems. , 2021, , .		0
146	Stability of Switched Systems with Unstable Subsystems: A Sequence-Based Average Dwell Time Approach. Circuits, Systems, and Signal Processing, 2021, 40, 5328-5350.	1.2	0
147	Stability Analysis and Stabilization of Switched Systems With Average Dwell Time: A Matrix Polynomial Approach. IEEE Access, 2021, 9, 9394-9402.	2.6	0
148	Sampled-Data Control for Asynchronously Switched Linear Systems Without MDT Constraints. IEEE Access, 2021, 9, 163851-163860.	2.6	0