Changhong Wang

List of Publications by Year
in descending order

73 papers	2,992 citations	201575 27 h-index	161767 54 g-index
74 all docs	74 docs citations	74 times ranked	1676 citing authors

#	Article	IF	Citations
1	H_∞ filtering for 2D Markovian jump systems. Automatica, 2008, 44, 1849-1858.	3.0	360
2	Delay-dependent robust H/sub ∞/ and L/sub 2/-L/sub ∞/ filtering for a class of uncertain nonlinear time-delay systems. IEEE Transactions on Automatic Control, 2003, 48, 1661-1666.	3.6	289
3	Stabilization of Singular Markovian Jump Systems With Generally Uncertain Transition Rates. IEEE Transactions on Automatic Control, 2014, 59, 2604-2610.	3.6	206
4	Disturbance Observer-Based Antiwindup Control for Air-Breathing Hypersonic Vehicles. IEEE Transactions on Industrial Electronics, 2016, 63, 3038-3049.	5.2	167
5	Approximate Back-Stepping Fault-Tolerant Control of the Flexible Air-Breathing Hypersonic Vehicle. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1680-1691.	3.7	163
6	Adaptive Control of Hypersonic Flight Vehicles With Limited Angle-of-Attack. IEEE/ASME Transactions on Mechatronics, 2018, 23, 883-894.	3.7	158
7	Robust H_∞ filtering for switched linear discrete-time systems with polytopic uncertainties. International Journal of Adaptive Control and Signal Processing, 2006, 20, 291-304.	2.3	147
8	H_∞ model reduction for uncertain switched linear discrete-time systems. Automatica, 2008, 44, 2944-2949.	3.0	96
9	Barrier Lyapunov function-based adaptive control for hypersonic flight vehicles. Nonlinear Dynamics, 2017, 88, 1833-1853.	2.7	89
10	Generalized Kalman–Yakubovich–Popov Lemma for 2-D FM LSS Model. IEEE Transactions on Automatic Control, 2012, 57, 3090-3103.	3.6	86
11	H_∞ model reduction for discrete time-delay systems: delay-independent and dependent approaches. International Journal of Control, 2004, 77, 321-335.	1.2	81
12	Filtering for uncertain 2-D discrete systems with state delays. Signal Processing, 2007, 87, 2213-2230.	2.1	73
13	ℓ_∞ and l_2–l_∞ filtering for two-dimensional linear parameter-varying systems. International Journal of Robust and Nonlinear Control, 2007, 17, 1129-1154.	2.1	64
14	Robust H_∞ Filtering for 2D Stochastic Systems. Circuits, Systems, and Signal Processing, 2004, 23, 479-505.	1.2	60
15	Delay-Dependent Robust Exponential Stability of Impulsive Markovian Jumping Reaction-Diffusion Cohen-Grossberg Neural Networks. Neural Processing Letters, 2013, 38, 321-346.	2.0	56
16	ℓ_∞ model reduction for uncertain two-dimensional discrete systems. Optimal Control Applications and Methods, 2005, 26, 199-227.	1.3	49
17	H_∞ control of switched linear discrete-time systems with polytopic uncertainties. Optimal Control Applications and Methods, 2006, 27, 273-291.	1.3	46
18	Sliding mode disturbance observer-enhanced adaptive control for the air-breathing hypersonic flight vehicle. Acta Astronautica, 2017, 139, 111-121.	1.7	45

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19	On Hˆž Performance Analysis for Continuous-Time Stochastic Systems with Polytopic Uncertainties. Circuits, Systems, and Signal Processing, 2005, 24, 415-429.	1.2	44
20	Robust â„‹‹_{â^ž}filtering of Markovian jump stochastic systems with uncertain transition probabilities. International Journal of Systems Science, 2011, 42, 1219-1230.	3.7	43
21	Hankel norm approximation of linear systems with time-varying delay: continuous and discrete cases. International Journal of Control, 2004, 77, 1503-1520.	1.2	37
22	Stability in mean of partial variables for stochastic reaction–diffusion systems with Markovian switching. Journal of the Franklin Institute, 2014, 351, 500-512.	1.9	37
23	Nonfragile observer–based <i>H</i>_{â€‰â^žâ€‰} sliding mode control for ItÃ´ stochastic systems with Markovian switching. International Journal of Robust and Nonlinear Control, 2014, 24, 2035-2047.	2.1	35
24	Adaptive fault-tolerant control of air-breathing hypersonic vehicles robust to input nonlinearities. International Journal of Control, 2019, 92, 1044-1060.	1.2	35
25	Adaptive Compound Control of Air-Breathing Hypersonic Vehicles. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4519-4532.	2.6	34
26	Passivity Analysis and Passification of Markovian Jump Systems. Circuits, Systems, and Signal Processing, 2010, 29, 709-725.	1.2	32
27	Global stability of coupled Markovian switching reaction–diffusion systems on networks. Nonlinear Analysis: Hybrid Systems, 2014, 13, 61-73.	2.1	31
28	A distributed wireless body area network for medical supervision. , 2012, , .		30
29	A common linear copositive Lyapunov function for switched positive linear systems with commutable subsystems. International Journal of Systems Science, 2013, 44, 1994-2003.	3.7	26
30	Observer-Based $$H_infty $$ H â^ž Sliding Mode Controller Design for Uncertain Stochastic Singular Time-Delay Systems. Circuits, Systems, and Signal Processing, 2016, 35, 63-77.	1.2	24
31	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi></mml:mrow> model approximation for discrete-time Takagi–Sugeno fuzzy systems with Markovian jumping parameters. Neurocomputing, 2015, 157, 306-314.	3.5	22
32	Differentiator based full-envelope adaptive control of air-breathing hypersonic vehicles. Aerospace Science and Technology, 2018, 82-83, 312-322.	2.5	22
33	Control of a time-varying hypersonic vehicle model subject to inlet un-start condition. Journal of the Franklin Institute, 2018, 355, 4164-4197.	1.9	20
34	Adaptive controller design for a switched model of air-breathing hypersonic vehicles. Nonlinear Dynamics, 2018, 94, 1851-1866.	2.7	20
35	Model reduction of A class of Markov jump nonlinear systems with time-varying delays via projection approach. Neurocomputing, 2015, 166, 436-446.	3.5	18
36	Fast tracking control of air-breathing hypersonic vehicles with time-varying uncertain parameters. Nonlinear Dynamics, 2018, 91, 1835-1852.	2.7	18

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37	`<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e217" altimg="si1.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>∞</mml:mi></mml:mrow></mml:msub></mml:m` mode control of discrete switched systems with time-varying delays. ISA Transactions, 2019, 89, 12-19.	3.1	18
38	Sliding Mode Differentiator Based Tracking Control of Uncertain Nonlinear Systems with Application to Hypersonic Flight. Asian Journal of Control, 2019, 21, 143-155.	1.9	17
39	Quasi-time-dependent asynchronous `<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" overflow="scroll"><mml:msub><mml:mi mathvariant="bold-script">H</mml:mi><mml:mi>∞</mml:mi></mml:msub></mml:math>` control of discrete-time switched systems with mode-dependent persistent dwell-time. European Journal of Control, 2019, 48, 66-73.	1.6	17
40	Positioning Errors Predicting Method of Strapdown Inertial Navigation Systems Based on PSO-SVM. Abstract and Applied Analysis, 2013, 2013, 1-7.	0.3	13
41	Simplified longitudinal control of air-breathing hypersonic vehicles with hybrid actuators. Aerospace Science and Technology, 2020, 104, 105936.	2.5	13
42	Low-complexity hypersonic flight control with asymmetric angle of attack constraint. Nonlinear Dynamics, 2020, 100, 435-449.	2.7	13
43	Multiple Lyapunov function-based longitudinal maneuver control of air-breathing hypersonic vehicles. International Journal of Control, 2021, 94, 286-299.	1.2	13
44	New Results on Stability and Stabilization of Markovian Jump Systems with Time Delay. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	12
45	An anti-windup design to robust H∞ control for singular Markovian jump systems with actuator saturation and general unknown transition rates. Journal of the Franklin Institute, 2015, 352, 5708-5734.	1.9	12
46	Simplified fault-tolerant adaptive control of air-breathing hypersonic vehicles. International Journal of Control, 2020, 93, 1964-1979.	1.2	12
47	Adaptive control of a switched hypersonic vehicle model robust to scramjet choking and elevator fault. ISA Transactions, 2019, 95, 45-57.	3.1	10
48	Neural adaptive control of air-breathing hypersonic vehicles robust to actuator dynamics. ISA Transactions, 2021, 116, 17-29.	3.1	10
49	Periodic Input Response of a Second-Order Digital Filter With Two's Complement Arithmetic. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 225-229.	2.2	8
50	Trim State Discovery with Physical Constraints. Journal of Aircraft, 2015, 52, 90-106.	1.7	7
51	Stability analysis of time-delayed single-input sliding mode control systems. , 2008, , .		6
52	Optimizing Allocation-Enhanced Hypersonic Flight Control with Actuator Dynamics and Constraints. Journal of Spacecraft and Rockets, 0, , 1-12.	1.3	6
53	High-order nonsingular terminal sliding mode optimal control of two-link flexible manipulators. , 2011, , .		5
54	Sliding mode control of continuous-time switched systems with signal quantization and actuator nonlinearity. Science Progress, 2020, 103, 003685042091215.	1.0	5

#	Article	IF	Citations
55	Stability and stabilization of switched linear discrete-time systems with polytopic uncertainties. , 2006, , .		4
56	Time-delay effect on equivalent control based single-input sliding mode control systems. , 2008, , .		4
57	A new discrete reaching condition and generalized discrete reaching law with different convergence rates. Automatica, 2021, 132, 109805.	3.0	4
58	Chaotic Synchronization of Exponent Stability Based on Nonlinear State Observer. , 2007, , .		2
59	Local complex phase based level set and its application to DIC red blood cell segmentation. , 2011, , .		2
60	A maximum degree and negotiation strategy based clustering algorithm for wireless sensor networks. , 2011, , .		2
61	Stability and stabilization of polynomial fuzzy time-delay systems under imperfect premise matching. , 2016, , .		2
62	Hypersonic flight control considering parametric variations and VGI effects. International Journal of Control, 2021, 94, 1812-1823.	1.2	2
63	Robust filtering with l_2-l_∞ performance for uncertain discrete-time systems with multiple state delays. , 0, , .		1
64	Digital Redesign of Sliding Mode Control of LTI Systems. , 2006, , .		1
65	A networked sliding mode controller for servomechanical systems. , 2009, , .		1
66	Neural stem cell segmentation using local complex phase information. , 2010, , .		1
67	Design of real-time measurement system with Vision/IMU for close-range semi-physical rendezvous and docking simulation. , 2016, , .		1
68	Modeling adaptive empathy based on neutral assessment: a way to enhance the prosocial behaviors of socialized agents under the premise of self-security. Applied Intelligence, 2022, 52, 6692-6722.	3.3	1
69	Compound control of an uncertain hypersonic vehicle model. International Journal of Control, 2023, 96, 94-109.	1.2	1
70	Synchronization between the Chaotic Systems with Mismatching in Parameters. , 2006, , .		0
71	Stabilization of oscillators with bounded delayed input: Sliding mode control method. , 2008, , .		0
72	Time-delay effect on continuous approximation of sliding mode control. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Robust L/sub 1/ filtering with pole constraint in a disk via parameter-dependent Lyapunov functions. , 2004, , .		0