

Xiushan Cai

List of Publications by Year in descending order

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80
papers

633
citations

687363

13
h-index

642732

23
g-index

80
all docs

80
docs citations

80
times ranked

376
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear stabilization through wave PDE dynamics with a moving uncontrolled boundary. <i>Automatica</i> , 2016, 68, 27-38.	5.0	84
2	Nonlinear control under wave actuator dynamics with time- and state-dependent moving boundary. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 222-251.	3.7	52
3	Saturated control design for linear differential inclusions subject to disturbance. <i>Nonlinear Dynamics</i> , 2009, 58, 487-496.	5.2	44
4	Finite time stability of nonlinear impulsive systems and its applications in sampled-data systems. <i>ISA Transactions</i> , 2015, 57, 172-178.	5.7	41
5	Input-to-State Stability and Inverse Optimality of Linear Time-Varying-Delay Predictor Feedbacks. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 233-240.	5.7	37
6	Control design for one-sided Lipschitz nonlinear differential inclusions. <i>ISA Transactions</i> , 2014, 53, 298-304.	5.7	28
7	Control of time-delayed linear differential inclusions with stochastic disturbance. <i>Journal of the Franklin Institute</i> , 2010, 347, 1895-1906.	3.4	27
8	Input-to-state stability and inverse optimality of predictor feedback for multi-input linear systems. <i>Automatica</i> , 2019, 103, 549-557.	5.0	27
9	A novel approach to control synthesis of positive switched systems. <i>IET Control Theory and Applications</i> , 2017, 11, 3396-3403.	2.1	23
10	Sliding mode control for polytopic differential inclusion systems. <i>Mathematics and Computers in Simulation</i> , 2009, 79, 3018-3025.	4.4	22
11	Robust stabilization of linear differential inclusion system with time delay. <i>Mathematics and Computers in Simulation</i> , 2010, 80, 951-958.	4.4	16
12	Uniformly ultimately bounded tracking control of linear differential inclusions with stochastic disturbance. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 2662-2672.	4.4	14
13	Inverse optimal control for strict-feedforward nonlinear systems with input delays. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 2976-2995.	3.7	14
14	Observer design for the Lur'e differential inclusion system with Markovian jumping parameters. <i>International Journal of Systems Science</i> , 2013, 44, 2338-2348.	5.5	13
15	Control design for one-side Lipschitz nonlinear differential inclusion systems with time-delay. <i>Neurocomputing</i> , 2015, 165, 182-189.	5.9	13
16	Universal stabilisation design for a class of nonlinear systems with time-varying input delays. <i>IET Control Theory and Applications</i> , 2015, 9, 1481-1490.	2.1	12
17	Globally uniformly asymptotical stabilisation of time-delay nonlinear systems. <i>International Journal of Systems Science</i> , 2011, 42, 1175-1183.	5.5	11
18	Robust Stabilization of Linear Differential Inclusions with Affine Uncertainty. <i>Circuits, Systems, and Signal Processing</i> , 2011, 30, 1369-1382.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Boundary Control of Nonlinear ODE/Wave PDE Systems With a Spatially Varying Propagation Speed. IEEE Transactions on Automatic Control, 2021, 66, 4401-4408.	5.7	10
20	Stabilisation for one-sided Lipschitz non-linear differential inclusions. IET Control Theory and Applications, 2013, 7, 2172-2177.	2.1	8
21	Control of discrete-time nonlinear systems actuated through counter-convecting transport dynamics. Journal of Control and Decision, 2014, 1, 34-50.	1.6	8
22	Universal stabilisation design for general non-linear systems under wave partial differential equation actuator dynamics with time-varying moving boundary. IET Control Theory and Applications, 2016, 10, 253-264.	2.1	8
23	Output tracking and disturbance rejection of linear differential inclusion systems. International Journal of Systems Science, 2012, 43, 2072-2078.	5.5	7
24	Functional observer design for a class of multi-input and multi-output nonlinear systems. Journal of the Franklin Institute, 2012, 349, 3046-3059.	3.4	7
25	Control design for a class of nonlinear parameter varying systems. International Journal of Systems Science, 2015, 46, 1638-1647.	5.5	7
26	Theory of Control Systems Described by Differential Inclusions. Springer Tracts in Mechanical Engineering, 2016, , .	0.3	7
27	Predictor-based stabilisation for discrete nonlinear systems with state-dependent input delays. International Journal of Systems Science, 2017, 48, 769-777.	5.5	7
28	Robust stabilization of stochastic differential inclusion systems with time delay. Journal of Control Theory and Applications, 2012, 10, 77-81.	0.8	4
29	Stability and stabilization of positive switched systems under asynchronous switching. , 2014, , .		4
30	A Control Lyapunov Function Approach to Stabilization of Affine Nonlinear Systems with Bounded Uncertain Parameters. Circuits, Systems, and Signal Processing, 2015, 34, 341-352.	2.0	4
31	Inverse optimal design of input-to-state stabilisation for affine nonlinear systems with input delays. International Journal of Systems Science, 2018, 49, 833-847.	5.5	4
32	Event-triggered control of nonlinear positive semi-Markovian jump systems with randomly occurring actuator faults. Optimal Control Applications and Methods, 2021, 42, 660-683.	2.1	4
33	Impulsive Functional Observer Design for Fractional-Order Nonlinear Systems Satisfying Incremental Quadratic Constraints. Circuits, Systems, and Signal Processing, 2022, 41, 3130-3152.	2.0	4
34	Local stabilization for unstable bilinear systems with input saturation. Nonlinear Dynamics, 2012, 70, 249-254.	5.2	3
35	Asymptotic tracking control for a class of reference signals for linear differential inclusions. International Journal of Systems Science, 2014, 45, 1635-1642.	5.5	3
36	Improved dynamic double mutation particle swarm optimization for mobile robot path planning. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Vehicle routing with time windows based on two-stage optimization algorithm. , 2016, , .		3
38	Predictor control for multi-input nonlinear systems with time- and state-dependent input delays. IET Control Theory and Applications, 2017, 11, 495-503.	2.1	3
39	Functional observer design for nonlinear systems with incremental quadratic constraints. International Journal of Systems Science, 2021, 52, 1097-1105.	5.5	3
40	Backstepping control of ODE/wave PDE cascaded systems with dynamic boundary conditions. International Journal of Control, 2022, 95, 1625-1633.	1.9	3
41	Exponential Observers for Discrete-Time Nonlinear Systems with Incremental Quadratic Constraints. , 2019, , .		3
42	Analysis and design for a set of feedback linearizable systems. , 2011, , .		2
43	On the Practical Stability of Impulsive Differential Equations with Infinite Delay in Terms of Two Measures. Abstract and Applied Analysis, 2012, 2012, 1-8.	0.7	2
44	Finite Time Inverse Optimal Stabilization for Stochastic Nonlinear Systems. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.7	2
45	High-order nonsingular terminal sliding mode control of wind energy conversion systems. , 2016, , .		2
46	Vehicle routing plan based on ant colony and insert heuristic algorithm. , 2016, , .		2
47	Input-to-state stabilisation for a general nonlinear system with time-varying input delay. IET Control Theory and Applications, 2017, 11, 2793-2800.	2.1	2
48	ISS of predictor feedback for multi-input affine nonlinear systems with distinct input delays. International Journal of Systems Science, 2020, 51, 2326-2342.	5.5	2
49	Stabilisation of nonlinear ODE and wave PDE cascaded systems with damping terms. International Journal of Control, 2022, 95, 151-157.	1.9	2
50	Boundary Control for Cascaded System of Nonlinear ODE/Hyperbolic PDE With Time-Varying Parameter. IEEE Access, 2021, 9, 104177-104182.	4.2	2
51	Adaptive quantized controller design for synchronization of uncertain fractional-order nonlinear systems satisfying incremental quadratic constraints. Transactions of the Institute of Measurement and Control, 2022, 44, 2106-2116.	1.7	2
52	Stabilization of a Class of Nonlinear ODE/Wave PDE Cascaded Systems. IEEE Access, 2022, 10, 35653-35664.	4.2	2
53	Stabilization design for one-sided Lipschitz uncertain nonlinear systems with time-delay. , 2017, , .		1
54	Input-to-State Stabilizing a General Nonlinear System with Time-Varying Input Delay and Disturbances * *This work is supported by the National Natural Science Foundation of China (No. 61374077, No.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 (LY17F030001). IFAC-PapersOnLine, 2017, 50, 7169-7174.		0,9

#	ARTICLE	IF	CITATIONS
55	Simultaneous stabilization for a collection of single-input nonlinear time-delay systems with uncertain parameters. , 2018, , .		1
56	Stabilisation for cascade of nonlinear ODEs and counter-convecting transport dynamics. International Journal of Systems Science, 2019, 50, 2053-2062.	5.5	1
57	H_{∞} Functional Observer Design for One-Sided Lipschitz Nonlinear Systems with Time-Delay. , 2019, , .		1
58	Predictor Control for Non Forward Complete Nonlinear System With Time-Varying Input Delay. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3299-3303.	3.0	1
59	Simultaneous stabilization for a collection of nonlinear systems with uncertain parameter. , 2008, , .		0
60	Asymptotic controllability of discrete-time systems with disturbances. , 2008, , .		0
61	Prediction of earthquake in Yunnan region based on the AHC over sampling. , 2010, , .		0
62	Finite time stabilization of a class of nonlinear systems and its applications. , 2011, , .		0
63	Finite time inverse optimal control of affine nonlinear systems. , 2012, , .		0
64	Output-feedback design of networked control systems and estimating maximum data packets dropout. , 2013, , .		0
65	Stabilization design for nonlinear systems based on center manifolds. , 2014, , .		0
66	Stabilization design for a class of discontinuous dynamical systems. , 2014, , .		0
67	Control design for nonlinear differential inclusions based on CLFs. , 2015, , .		0
68	Stabilization design for uncertain one-sided Lipschitz systems. , 2016, , .		0
69	Continuity of the polytope generated by a set of matrices. , 2017, , .		0
70	On the compactness and continuity of polytopes. , 2017, , .		0
71	Disturbance attenuation and tracking control of linear systems with time delay. , 2017, , .		0
72	H_{∞} Finite-Time Bounded Observer Design for Nonlinear Systems with Time-Delay. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Simultaneous stabilization for a set of multi-input nonlinear systems with time-delay. , 2018, , .		0
74	Inverse Optimality of Predictor Feedbacks for Linearizable Strict-Feedforward Systems with Input Delays. , 2018, , .		0
75	Observer Design for A Class of Nonlinear Systems with Incremental Quadratic Constraints. , 2021, , .		0
76	Predictor control for nonlinear systems actuated via transport PDEs with time/space varying propagation speeds. Asian Journal of Control, 0, , .	3.0	0
77	Linear Polytope Control Systems. Springer Tracts in Mechanical Engineering, 2016, , 209-262.	0.3	0
78	Set-Valued Mappings and Differential Inclusions. Springer Tracts in Mechanical Engineering, 2016, , 53-156.	0.3	0
79	Predictor control for non-linear systems actuated via counter-convecting transport PDEs. IET Control Theory and Applications, 2021, 15, 1-12.	2.1	0
80	Output Feedback Stabilization for a Class of Uncertain High-Order Nonlinear Systems. IEEE Access, 2022, 10, 4297-4306.	4.2	0