

Shihong Ding

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

2,808
citations

26
h-index

51
g-index

115
ext. papers

3,568
ext. citations

3.8
avg. IF

6.48
L-index

#	Paper	IF	Citations
96	Fixed-Time Stabilization for a Class of Output-Constrained Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-13	7.3	4
95	Fixed-time HOSM controller design for constrained sliding mode systems with mismatched terms. <i>Information Sciences</i> , 2022 , 585, 366-381	7.7	0
94	Finite-time stabilization for a class of stochastic output-constrained systems by output feedback. <i>International Journal of Robust and Nonlinear Control</i> , 2022 , 32, 1256	3.6	0
93	HOSM controller design with asymmetric output constraints. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	21
92	Output-feedback finite-time stabilization of a class of constrained planar systems. <i>Applied Mathematics and Computation</i> , 2022 , 412, 126573	2.7	2
91	SOSM controller design for output constrained systems subject to disturbances with unknown magnitudes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	
90	An Improved Three-vector-based Model Predictive Current Control Method for Surface-mounted PMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	2
89	Global Finite-Time Controller Design for HOSM Dynamics Subject to Upper-Triangular Structure. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-14	3.9	
88	A Super-Twisting-Like Fractional Controller for SPMSM Drive System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	15
87	On robust stability of switched homogeneous systems. <i>IET Control Theory and Applications</i> , 2021 , 15, 758-770	2.5	0
86	Finite-time Extended State Observer Based Super-twisting Sliding Mode Controller for PMSM Drives with Inertia Identification. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	6
85	Observer-based adaptive scheme for fixed-time frequency estimation of biased sinusoidal signals. <i>Automatica</i> , 2021 , 127, 109559	5.7	2
84	Adaptive Fuzzy Output-Feedback Control Design for a Class of p-Norm Stochastic Nonlinear Systems With Output Constraints. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 2626-2638	3.9	3
83	Design of high-order sliding mode controller under asymmetric output constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 7107-7124	3.6	0
82	Design of a run-to-run controller based on discrete sliding-mode observer. <i>Asian Journal of Control</i> , 2021 , 23, 908-919	1.7	1
81	Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 497-507	7.3	56
80	Second-Order Sliding Mode Control Design Subject to an Asymmetric Output Constraint. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1278-1282	3.5	29

79	A unified control approach to finite-time stabilization of SOSM dynamics subject to an output constraint. <i>Applied Mathematics and Computation</i> , 2021 , 394, 125752	2.7	3
78	GPIO Based Super-Twisting Sliding Mode Control for PMSM. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 747-751	3.5	28
77	Adaptive Second-order Sliding Mode Control: A Lyapunov Approach. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	12
76	Adaptive Fuzzy SOSM Controller Design With Output Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	9
75	Second-order sliding mode controller design with mismatched term and time-varying output constraint. <i>Applied Mathematics and Computation</i> , 2021 , 407, 126331	2.7	1
74	Fixed-time SOSM controller design subject to an asymmetric output constraint. <i>Journal of the Franklin Institute</i> , 2021 , 358, 7485-7506	4	2
73	HOSM controller design with an output constraint and its application. <i>ISA Transactions</i> , 2021 , 116, 71-80	5.5	0
72	Finite-time fuzzy output-feedback control for p -norm stochastic nonlinear systems with output constraints. <i>AIMS Mathematics</i> , 2021 , 6, 2244-2267	2.2	0
71	Fuzzy Adaptive SOSM Based Control of A Type of Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	6
70	TCP/AWM network congestion algorithm with funnel control and arbitrary setting time. <i>Applied Mathematics and Computation</i> , 2020 , 385, 125410	2.7	2
69	Adaptive Fuzzy Control for Nontriangular Stochastic High-Order Nonlinear Systems Subject to Asymmetric Output Constraints. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	21
68	Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-13	7.3	14
67	An Adaptive SOSM Controller Design by Using a Sliding-Mode-Based Filter and its Application to Buck Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 2409-2418	3.9	56
66	Composite Super-twisting Sliding Mode Control Design for PMSM Speed Regulation Problem Based on a Novel Disturbance Observer. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 1-1	5.4	66
65	Finite-time controller design of multiple integrator nonlinear systems with input saturation. <i>Applied Mathematics and Computation</i> , 2020 , 372, 124986	2.7	20
64	Second-Order Sliding Mode Controller Design with a Larger Domain of Attraction. <i>Journal of Systems Science and Complexity</i> , 2020 , 33, 61-73	1	1
63	Universal finite-time observer based second-order sliding mode control for DC-DC buck converters with only output voltage measurement. <i>Journal of the Franklin Institute</i> , 2020 , 357, 11863-11879	4	10
62	Second-order sliding mode controller design with output constraint. <i>Automatica</i> , 2020 , 112, 108704	5.7	103

61	High-order sliding mode controller design subject to lower-triangular nonlinearity and its application to robotic system. <i>Journal of the Franklin Institute</i> , 2020 , 357, 10367-10386	4	7
60	Adaptive Fuzzy Control for Stochastic High-Order Nonlinear Systems With Output Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	12
59	Fixed-time SOSM controller design with output constraint. <i>Nonlinear Dynamics</i> , 2020 , 102, 1567-1583	5	26
58	Fuzzy Non-singular Terminal Sliding Mode Controller Design for Nonlinear Systems with Input Saturation. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 2271-2283	3.6	2
57	Disturbance Observer Design for Nonlinear Systems Represented by Input-Output Models. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1222-1232	8.9	125
56	Composite finite-time straight-line path-following control of an underactuated surface vessel. <i>Journal of the Franklin Institute</i> , 2020 , 357, 11496-11517	4	4
55	A novel adaptive nonsingular terminal sliding mode controller design and its application to active front steering system. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4250	3.6	15
54	Finite-time stabilization for a class of high-order stochastic nonlinear systems with an output constraint. <i>Applied Mathematics and Computation</i> , 2019 , 358, 63-79	2.7	68
53	A New Second-Order Sliding Mode and Its Application to Nonlinear Constrained Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2545-2552	5.9	113
52	A novel second-order sliding mode control based on the Lyapunov method. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1068-1078	1.8	2
51	Robust finite-time stabilization of a class of high-order stochastic nonlinear systems subject to output constraint and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 5550-5573	3.6	26
50	Quasi-Continuous Second-Order Sliding Mode Control of Buck Converter. <i>IEEE Access</i> , 2018 , 6, 17859-17867	3.9	18
49	Design and testing of a control system associated with the automatic feeding boat for farming Chinese river crabs. <i>Computers and Electronics in Agriculture</i> , 2018 , 150, 14-25	6.5	7
48	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1990-2000	11.9	121
47	Global stabilization of a class of cascaded systems with upper-triangular structures. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4330	3.6	6
46	A Compound Controller Design for a Buck Converter. <i>Energies</i> , 2018 , 11, 2354	3.1	2
45	Adaptive Nonsingular Terminal Sliding Model Control for Permanent Magnet Synchronous Motor Based on Disturbance Observer. <i>IEEE Access</i> , 2018 , 6, 48913-48920	3.5	16
44	A new optimization particle filtering navigation location method for aquatic plants cleaning workboat in crab farming. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 1729881418787914	1.4	1

43	Design of an adaptive nonsingular terminal sliding model control method for a bearingless permanent magnet synchronous motor. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 1821-1828	1.8	11
42	Second-order sliding mode controller design subject to mismatched unbounded perturbations. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 4706-4722	3.6	15
41	Composite Active Front Steering Controller Design for Vehicle System. <i>IEEE Access</i> , 2017 , 5, 6697-6706	3.5	15
40	Direct yaw-moment control for 4WID electric vehicle via finite-time control technique. <i>Nonlinear Dynamics</i> , 2017 , 88, 239-254	5	19
39	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6752-6762	8.9	196
38	Second-order sliding mode controller design subject to mismatched term. <i>Automatica</i> , 2017 , 77, 388-392	5.7	152
37	Controller design of second order sliding mode control systems with mismatched perturbations 2017 ,		1
36	Active front steering controller design for electric vehicle system by using disturbance observer method 2017 ,		3
35	Parameterisation of a special class of saturated controllers and application to mechanical systems. <i>IET Control Theory and Applications</i> , 2017 , 11, 3146-3155	2.5	2
34	Global stabilisation of a class of generalised cascaded systems by homogeneous method. <i>International Journal of Control</i> , 2016 , 89, 815-832	1.5	7
33	Direct yaw-moment control of in-wheel electric vehicle by sliding mode technique 2016 ,		5
32	Simple homogeneous sliding-mode controller. <i>Automatica</i> , 2016 , 67, 22-32	5.7	148
31	Integral sliding mode control for stochastic Markovian jump system with time-varying delay. <i>Neurocomputing</i> , 2016 , 179, 118-125	5.4	15
30	Second-Order Sliding Mode Control for BUCK Converters. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 69-76	0.2	
29	Nonsmooth stabilization for distributed electric vehicle based on direct yaw-moment control 2016 ,		1
28	Nonsingular terminal sliding mode control of nonlinear second-order systems with input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1857-1872	3.6	43
27	Apple tree branch segmentation from images with small gray-level difference for agricultural harvesting robot. <i>Optik</i> , 2016 , 127, 11173-11182	2.5	15
26	Second-Order Sliding Mode Control for Nonlinear Uncertain Systems Bounded by Positive Functions. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5899-5909	8.9	107

25	Straight-Line Tracking Control of an Agricultural Vehicle with Finite-Time Control Technique. <i>Asian Journal of Control</i> , 2015 , 17, 2218-2228	1.7	3
24	New families of high-order sliding-mode controllers 2015 ,		5
23	Robust control of multiple integrators subject to input saturation and disturbance. <i>International Journal of Control</i> , 2015 , 88, 844-856	1.5	18
22	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 1163-1181	3.7	38
21	Global decentralised stabilisation for a class of uncertain large-scale feedforward nonlinear systems. <i>International Journal of Control</i> , 2014 , 87, 1282-1296	1.5	13
20	Global Finite-Time Stabilization for Nonholonomic Mobile Robots Based on Visual Servoing. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 180	1.4	15
19	Bounded Consensus Algorithms for Multi-Agent Systems in Directed Networks. <i>Asian Journal of Control</i> , 2013 , 15, 282-291	1.7	39
18	Controller design for nonlinear affine systems by control Lyapunov functions. <i>Systems and Control Letters</i> , 2013 , 62, 930-936	2.4	7
17	New approach to second-order sliding mode control design. <i>IET Control Theory and Applications</i> , 2013 , 7, 2188-2196	2.5	11
16	Terminal sliding mode control of second-order systems with bounded input 2013 ,		1
15	Guidance law design based on non-smooth control. <i>Transactions of the Institute of Measurement and Control</i> , 2013 , 35, 1116-1128	1.8	10
14	Nonsmooth stabilization of a class of nonlinear cascaded systems. <i>Automatica</i> , 2012 , 48, 2597-2606	5.7	129
13	Nested saturation control for overhead crane systems. <i>Transactions of the Institute of Measurement and Control</i> , 2012 , 34, 862-875	1.8	44
12	Global stabilization of partially linear composite systems using homogeneous method. <i>Asian Journal of Control</i> , 2011 , 13, 1028-1034	1.7	5
11	Adaptive set stabilization of the attitude of a rigid spacecraft without angular velocity measurements. <i>Journal of Systems Science and Complexity</i> , 2011 , 24, 105-119	1	5
10	Global stabilization of a class of upper-triangular systems with unbounded or uncontrollable linearizations. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 271-294	3.6	84
9	A speed control for a PMSM using finite-time feedback control and disturbance compensation. <i>Transactions of the Institute of Measurement and Control</i> , 2010 , 32, 170-187	1.8	85
8	Global finite-time stabilisation by output feedback for a class of uncertain nonlinear systems. <i>International Journal of Control</i> , 2010 , 83, 2241-2252	1.5	96

7	Global stabilization of a class of upper-triangular systems with higher-order nonlinearities 2010 ,		1
6	Global Stabilization of a Class of Feedforward Systems with Lower-Order Nonlinearities. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 691-696	5.9	69
5	Global uniform asymptotical stability of a class of nonlinear cascaded systems with application to a nonholonomic wheeled mobile robot. <i>International Journal of Systems Science</i> , 2010 , 41, 1301-1312	2.3	16
4	Stabilization of the attitude of a rigid spacecraft with external disturbances using finite-time control techniques. <i>Aerospace Science and Technology</i> , 2009 , 13, 256-265	4.9	131
3	Stability analysis for a second-order continuous finite-time control system subject to a disturbance. <i>Journal of Control Theory and Applications</i> , 2009 , 7, 271-276		39
2	Global set stabilisation of the spacecraft attitude using finite-time control technique. <i>International Journal of Control</i> , 2009 , 82, 822-836	1.5	121
1	Fuzzy Disturbance Observer Design for a Class of Nonlinear SISO Systems. <i>International Journal of Fuzzy Systems</i> ,1	3.6	0