

Zong-Yao Sun

List of Publications by Year in descending order

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86
papers

2,996
citations

159525
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86
all docs

86
docs citations

86
times ranked

1221
citing authors

#	ARTICLE	IF	CITATIONS
1	A new approach to finite-time adaptive stabilization of high-order uncertain nonlinear system. Automatica, 2015, 58, 60-66.	3.0	248
2	A new approach to fast global finite-time stabilization of high-order nonlinear system. Automatica, 2017, 81, 455-463.	3.0	209
3	Command Filter-Based Finite-Time Adaptive Fuzzy Control for Uncertain Nonlinear Systems With Prescribed Performance. IEEE Transactions on Fuzzy Systems, 2020, 28, 3161-3170.	6.5	179
4	Fast finite-time stability and its application in adaptive control of high-order nonlinear system. Automatica, 2019, 106, 339-348.	3.0	176
5	Global Output Feedback Stabilization of a Class of Nonlinear Systems With Unknown Measurement Sensitivity. IEEE Transactions on Automatic Control, 2018, 63, 2212-2217.	3.6	123
6	Adaptive state-feedback stabilization for a class of high-order nonlinear uncertain systems. Automatica, 2007, 43, 1772-1783.	3.0	112
7	A unified time-varying feedback approach and its applications in adaptive stabilization of high-order uncertain nonlinear systems. Automatica, 2016, 70, 249-257.	3.0	110
8	Adaptive disturbance attenuation for generalized high-order uncertain nonlinear systems. Automatica, 2017, 80, 102-109.	3.0	101
9	A unified approach to finite-time stabilization of high-order nonlinear systems with an asymmetric output constraint. Automatica, 2020, 111, 108581.	3.0	99
10	Continuous global stabilisation of high-order time-delay nonlinear systems. International Journal of Control, 2013, 86, 994-1007.	1.2	92
11	Global asymptotic output tracking of nonlinear second-order systems with power integrators. Automatica, 2017, 80, 156-161.	3.0	77
12	Integrated stability control of AFS and DYC for electric vehicle based on non-smooth control. International Journal of Systems Science, 2018, 49, 1518-1528.	3.7	64
13	Smooth output feedback stabilization for a class of nonlinear systems with time-varying powers. International Journal of Robust and Nonlinear Control, 2017, 27, 5113-5128.	2.1	62
14	Global output feedback stabilization for stochastic nonlinear systems: A double domination approach. International Journal of Robust and Nonlinear Control, 2018, 28, 4635-4646.	2.1	61
15	New results on global stabilization for time-delay nonlinear systems with low-order and high-order growth conditions. International Journal of Robust and Nonlinear Control, 2015, 25, 878-899.	2.1	56
16	Global continuous output-feedback stabilization for a class of high-order nonlinear systems with multiple time delays. Journal of the Franklin Institute, 2014, 351, 4334-4356.	1.9	54
17	Global stabilisation of high-order nonlinear systems with multiple time delays. International Journal of Control, 2013, 86, 768-778.	1.2	51
18	Global fast finite-time partial state feedback stabilization of high-order nonlinear systems with dynamic uncertainties. Information Sciences, 2019, 484, 219-236.	4.0	49

#	ARTICLE	IF	CITATIONS
19	Fast finite-time adaptive stabilization of high-order uncertain nonlinear system with an asymmetric output constraint. <i>Automatica</i> , 2020, 121, 109170.	3.0	48
20	Feedback stabilisation of time-delay nonlinear systems with continuous time-varying output function. <i>International Journal of Systems Science</i> , 2019, 50, 244-255.	3.7	46
21	Adaptive stabilisation for a large class of high-order uncertain non-linear systems. <i>International Journal of Control</i> , 2009, 82, 1275-1287.	1.2	40
22	Adaptive Control Design for a Class of Uncertain High-Order Nonlinear Systems with Time Delay. <i>Asian Journal of Control</i> , 2015, 17, 535-543.	1.9	40
23	Output feedback stabilization for high-order uncertain feedforward time-delay nonlinear systems. <i>Journal of the Franklin Institute</i> , 2015, 352, 5308-5326.	1.9	39
24	Output feedback finite-time stabilization for high-order planar systems with an output constraint. <i>Automatica</i> , 2020, 114, 108843.	3.0	38
25	Adaptive Practical Output Tracking Control for High-order Nonlinear Uncertain Systems. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2008, 34, 984-989.	1.5	37
26	Adaptive event-triggered global fast finite-time control for a class of uncertain nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 3773-3785.	2.1	36
27	Fixed-Time Adaptive Neural Network Control for Nonlinear Systems With Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 1911-1920.	7.2	36
28	Global adaptive stabilization for high-order uncertain time-varying nonlinear systems with time delays. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 2198-2217.	2.1	32
29	Fixed-time stabilisation for a class of high-order nonlinear systems. <i>IET Control Theory and Applications</i> , 2018, 12, 2578-2587.	1.2	32
30	Adaptive control for high-order time-delay uncertain nonlinear system and application to chemical reactor system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015, 29, 224-241.	2.3	30
31	Fast finite-time adaptive stabilization of high-order uncertain nonlinear systems with output constraint and zero dynamics. <i>Information Sciences</i> , 2020, 514, 571-586.	4.0	30
32	Global stabilization via nested saturation function for high-order feedforward nonlinear systems with unknown time-varying delays. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 3363-3387.	2.1	27
33	A new approach to stabilisation of a class of nonlinear systems with an output constraint. <i>International Journal of Control</i> , 2020, 93, 1242-1250.	1.2	27
34	Robust output feedback tracking control for a class of high-order time-delay nonlinear systems with input dead-zone and disturbances. <i>Nonlinear Dynamics</i> , 2019, 97, 921-935.	2.7	25
35	Adaptive Fuzzy Control of Strict-Feedback Nonlinear Time-Delay Systems with Full-State Constraints. <i>International Journal of Fuzzy Systems</i> , 2018, 20, 2556-2565.	2.3	24
36	Command filter-based event-triggered adaptive neural network control for uncertain nonlinear time-delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 6363-6382.	2.1	23

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37	Output tracking control for generalised high-order nonlinear system with serious uncertainties. <i>International Journal of Control</i> , 2017, 90, 322-333.	1.2	22
38	Finite-time Controller Design for Four-wheel-steering of Electric Vehicle Driven by Four In-wheel Motors. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 1814-1823.	1.6	22
39	Disturbance attenuation via double-domination approach for feedforward nonlinear system with unknown output function. <i>Nonlinear Dynamics</i> , 2019, 96, 2523-2533.	2.7	21
40	Output feedback control for a class of high-order nonholonomic systems with complicated nonlinearity and time-varying delay. <i>Journal of the Franklin Institute</i> , 2017, 354, 4289-4310.	1.9	20
41	A new approach to global stabilization of high-order time-delay uncertain nonlinear systems via time-varying feedback and homogeneous domination. <i>Journal of the Franklin Institute</i> , 2018, 355, 6469-6492.	1.9	20
42	Adaptive Practical Output Tracking Control for High-order Nonlinear Uncertain Systems. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2009, 34, 984-988.	0.3	20
43	Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4409-4416.	5.9	19
44	Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 5577-5586.	5.9	19
45	Stabilizing Control Design for a Class of High-order Nonlinear Systems with Unknown but Identical Control Coefficients. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2007, 33, 0331.	0.3	19
46	Output feedback stabilization of time-delay nonlinear systems with unknown continuous time-varying output function and nonlinear growth rate. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 2579-2592.	2.1	18
47	Output feedback regulation of time-delay nonlinear systems with unknown continuous output function and unknown growth rate. <i>Nonlinear Dynamics</i> , 2020, 100, 1309-1325.	2.7	17
48	Study on vehicle active suspension system control method based on homogeneous domination approach. <i>Asian Journal of Control</i> , 2021, 23, 561-571.	1.9	16
49	Fast finite-time adaptive event-triggered tracking for uncertain nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 7806-7821.	2.1	15
50	Lateral motion stability control of electric vehicle via sampled-data state feedback by almost disturbance decoupling. <i>International Journal of Control</i> , 2019, 92, 734-744.	1.2	14
51	Finite-time stabilization via output feedback for high-order planar systems subjected to an asymmetric output constraint. <i>Nonlinear Dynamics</i> , 2021, 104, 2347-2361.	2.7	14
52	Fast finite-time partial state feedback stabilization of high-order nonlinear systems with output constraint and dynamic uncertainties. <i>Journal of the Franklin Institute</i> , 2020, 357, 11189-11216.	1.9	13
53	Almost Disturbance Decoupling for a Class of Nonlinear Systems Subject to Time-Delays Via Sampled-Data Output Feedback Control. <i>Asian Journal of Control</i> , 2018, 20, 568-576.	1.9	12
54	A homogeneous domination output feedback control method for active suspension of intelligent electric vehicle. <i>Nonlinear Dynamics</i> , 2021, 103, 1627-1644.	2.7	12

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55	New results on explicit adaptive control design for nonlinear systems with polynomial conditions. International Journal of Robust and Nonlinear Control, 2021, 31, 324-342.	2.1	11
56	Tracking Control Design for Nonholonomic Mechanical Systems with Affine Constraints. International Journal of Automation and Computing, 2014, 11, 328-333.	4.5	10
57	Finite-time state-feedback stabilization of high-order stochastic nonlinear systems with an asymmetric output constraint. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1691-1701.	2.3	10
58	State-Feedback Adaptive Stabilizing Control Design for a Class of High-Order Nonlinear Systems with Unknown Control Coefficients. Journal of Systems Science and Complexity, 2007, 20, 350-361.	1.6	9
59	Global stabilisation for a class of upper-triangular nonlinear systems with unmodelled dynamics and time-delay. International Journal of Control, 2020, 93, 1147-1158.	1.2	9
60	Disturbance attenuation with fast global finite-time convergence for generalized high-order uncertain nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 824-841.	2.1	8
61	New results on robust tracking control for a class of high-order nonlinear time-delay systems. International Journal of Systems Science, 2019, 50, 2002-2014.	3.7	7
62	Output Tracking Control via Neural Networks for High-Order Stochastic Nonlinear Systems with Dynamic Uncertainties. International Journal of Fuzzy Systems, 2021, 23, 716-726.	2.3	7
63	Output tracking control for generalized high-order nonlinear system with almost disturbance decoupling. International Journal of Control, Automation and Systems, 2017, 15, 2570-2578.	1.6	6
64	Global Finite-Time Stabilization for Uncertain Systems With Unknown Measurement Sensitivity. IEEE Transactions on Cybernetics, 2022, 52, 7602-7611.	6.2	6
65	Global output feedback stabilization for a class of nonlinear systems with multiple uncertainties. Journal of the Franklin Institute, 2021, 358, 2623-2641.	1.9	6
66	An adaptive homogeneous domination method to time-varying control of nonlinear systems. International Journal of Robust and Nonlinear Control, 2022, 32, 527-540.	2.1	6
67	Finite-time stabilization of maglev system with an output constraint. Asian Journal of Control, 2021, 23, 2874-2878.	1.9	5
68	Finite-time active shimmy control based on uncertain disturbance observer for electric vehicle with independent suspension. IET Intelligent Transport Systems, 2020, 14, 1835-1844.	1.7	5
69	Finite-Time Adaptive Fuzzy Event-Triggered Control of Constrained Nonlinear Systems via Bounded Command Filter. IEEE Transactions on Fuzzy Systems, 2023, 31, 117-128.	6.5	5
70	Global stabilization of lower-triangular nonlinear systems with delayed input and delayed state. Journal of the Franklin Institute, 2020, 357, 5720-5734.	1.9	4
71	Homogeneous Domination Control for Uncertain Nonlinear Systems via Interval Homogeneity With Monotone Degrees. IEEE Access, 2020, 8, 48632-48641.	2.6	4
72	Robust control of high-order nonlinear systems with unknown measurement sensitivity. Science China Information Sciences, 2021, 64, 1.	2.7	4

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73	Nonlinear lateral motion stability control method for electric vehicle based on the combination of dual extended state observer and domination approach via sampled-data output feedback. Transactions of the Institute of Measurement and Control, 2021, 43, 2258-2271.	1.1	4
74	High Velocity Lane Keeping Control Method Based on the Non-Smooth Finite-Time Control for Electric Vehicle Driven by Four Wheels Independently. Electronics (Switzerland), 2021, 10, 760.	1.8	4
75	Robust output feedback control of time-delay nonlinear systems with dead-zone input and application to chemical reactor system. Nonlinear Dynamics, 2022, 109, 1617-1627.	2.7	4
76	A New Finite-Time Stabilizing Design for a Class of High-Order Uncertain Nonlinear Systems and Its Application in Maglev Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 417-424.	5.9	4
77	Global Adaptive Stabilization of High-order Nonlinear Systems with Zero Dynamics. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 1025-1032.	1.5	3
78	Output tracking control of high-order nonlinear systems with dynamic uncertainties. Transactions of the Institute of Measurement and Control, 2020, 42, 1511-1520.	1.1	2
79	Optimisation control via the distributed model predictive method for nonlinear time-delay systems. International Journal of Systems Science, 2020, 51, 3339-3346.	3.7	2
80	Output feedback stabilization for power-integrator systems with unknown measurement sensitivity. Science China Information Sciences, 2021, 64, 1.	2.7	2
81	Global stabilization via output feedback for a class of uncertainty nonlinear systems with time-varying delay and zero dynamics. ISA Transactions, 2023, 132, 235-245.	3.1	2
82	Adaptive almost disturbance decoupling for a class of uncertain nonlinear systems. , 2017, , .		1
83	State-Feedback Adaptive Stabilizing Control Design for a Class of High-Order Nonlinear Systems with Unknown Control Coefficients. , 2006, , .		0
84	Adaptive control of inherently time-delay nonlinear systems with nonlinear parameterization. , 2014, , .		0
85	Tracking control design for a class of generalized high-order nonlinear systems with serious uncertainties. , 2016, , .		0
86	Global Output Feedback Stabilization for a Class of Nonlinear Cascade Systems. Mathematical Problems in Engineering, 2018, 2018, 1-13.	0.6	0