

Zongyu Zuo

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

7,963
citations

76196

40
h-index

49773

87
g-index

119
all docs

119
docs citations

119
times ranked

3496
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonsingular fixed-time consensus tracking for second-order multi-agent networks. <i>Automatica</i> , 2015, 54, 305-309.	3.0	761
2	Distributed robust finite-time nonlinear consensus protocols for multi-agent systems. <i>International Journal of Systems Science</i> , 2016, 47, 1366-1375.	3.7	507
3	Fixed-Time Consensus Tracking for Multiagent Systems With High-Order Integrator Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 563-570.	3.6	499
4	An Overview of Recent Advances in Fixed-Time Cooperative Control of Multiagent Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 2322-2334.	7.2	428
5	A new class of finite-time nonlinear consensus protocols for multi-agent systems. <i>International Journal of Control</i> , 2014, 87, 363-370.	1.2	402
6	Non-singular fixed-time terminal sliding mode control of nonlinear systems. <i>IET Control Theory and Applications</i> , 2015, 9, 545-552.	1.2	393
7	Trajectory tracking control design with command-filtered compensation for a quadrotor. <i>IET Control Theory and Applications</i> , 2010, 4, 2343-2355.	1.2	363
8	A fixed-time output feedback control scheme for double integrator systems. <i>Automatica</i> , 2017, 80, 17-24.	3.0	279
9	Adaptive trajectory tracking control of output constrained multi-rotors systems. <i>IET Control Theory and Applications</i> , 2014, 8, 1163-1174.	1.2	219
10	Fixed-Time Leader-Follower Output Feedback Consensus for Second-Order Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1545-1550.	6.2	216
11	Multivariable Finite Time Attitude Control for Quadrotor UAV: Theory and Experimentation. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 2567-2577.	5.2	213
12	Practical fixed-time consensus for integrator-type multi-agent systems: A time base generator approach. <i>Automatica</i> , 2019, 105, 406-414.	3.0	206
13	Distributed Optimization for Multiagent Systems: An Edge-Based Fixed-Time Consensus Approach. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 122-132.	6.2	196
14	Collective Behaviors of Mobile Robots Beyond the Nearest Neighbor Rules With Switching Topology. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1577-1590.	6.2	170
15	Fixed-Time Formation Control of Multirobot Systems: Design and Experiments. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6292-6301.	5.2	129
16	Predictor-Based Extended-State-Observer Design for Consensus of MASs With Delays and Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1259-1269.	6.2	126
17	Adaptive Finite-Time Attitude Tracking of Quadrotors With Experiments and Comparisons. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 9428-9438.	5.2	125
18	Bipartite Consensus Tracking for Second-Order Multiagent Systems: A Time-Varying Function-Based Preset-Time Approach. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2739-2745.	3.6	124

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19	Robust Control for Quadrotors With Multiple Time-Varying Uncertainties and Delays. IEEE Transactions on Industrial Electronics, 2017, 64, 1303-1312.	5.2	119
20	Consensus Control of a Class of Lipschitz Nonlinear Systems With Input Delay. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2730-2738.	3.5	118
21	Leader-follower fixed-time consensus of multi-agent systems with high-order integrator dynamics. International Journal of Control, 2017, 90, 1420-1427.	1.2	106
22	Augmented L_1 adaptive tracking control of quad-rotor unmanned aircrafts. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 3090-3101.	2.6	100
23	An Overview of Finite/Fixed-Time Control and Its Application in Engineering Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 2106-2120.	8.5	95
24	Distributed Consensus Observer for Multiagent Systems With High-Order Integrator Dynamics. IEEE Transactions on Automatic Control, 2020, 65, 1771-1778.	3.6	93
25	A Truncated Prediction Approach to Consensus Control of Lipschitz Nonlinear Multiagent Systems With Input Delay. IEEE Transactions on Control of Network Systems, 2017, 4, 716-724.	2.4	87
26	Robust Three-Loop Trajectory Tracking Control for Quadrotors with Multiple Uncertainties. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	78
27	Adaptive trajectory tracking control design with command filtered compensation for a quadrotor. JVC/Journal of Vibration and Control, 2013, 19, 94-108.	1.5	74
28	Multivariable finite-time output feedback trajectory tracking control of quadrotor helicopters. International Journal of Robust and Nonlinear Control, 2018, 28, 281-295.	2.1	72
29	Fixed-time stabilisation and consensus of non-holonomic systems. IET Control Theory and Applications, 2016, 10, 2497-2505.	1.2	71
30	Unmanned Aerial Vehicles: Control Methods and Future Challenges. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 601-614.	8.5	69
31	Fixed-time stabilization of high-order integrator systems with mismatched disturbances. Nonlinear Dynamics, 2018, 94, 2889-2899.	2.7	64
32	L_1 Adaptive Backstepping for Robust Trajectory Tracking of UAVs. IEEE Transactions on Industrial Electronics, 2017, 64, 2944-2954.	5.2	62
33	Signed-average consensus for networks of agents: a nonlinear fixed-time convergence protocol. Nonlinear Dynamics, 2016, 85, 155-165.	2.7	61
34	Consensus disturbance rejection for Lipschitz nonlinear multi-agent systems with input delay: A DOBC approach. Journal of the Franklin Institute, 2017, 354, 298-315.	1.9	58
35	Backstepping Control for Gear Transmission Servo Systems With Backlash Nonlinearity. IEEE Transactions on Automation Science and Engineering, 2015, 12, 752-757.	3.4	52
36	Robust consensus control of uncertain multi-agent systems with input delay: a model reduction method. International Journal of Robust and Nonlinear Control, 2017, 27, 1874-1894.	2.1	48

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37	Parametric adaptive control of single-rod electrohydraulic system with block-strict-feedback model. <i>Automatica</i> , 2020, 113, 108807.	3.0	48
38	An Explicit Estimate for the Upper Bound of the Settling Time in Fixed-Time Leader-Following Consensus of High-Order Multivariable Multiagent Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6250-6259.	5.2	47
39	Active Debris Removal Using Double-Tethered Space-Tug System. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 722-730.	1.6	46
40	Truncated Predictor Control of Lipschitz Nonlinear Systems With Time-Varying Input Delay. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5324-5330.	3.6	41
41	Distributed Fixed-Time Coordinated Tracking for Nonlinear Multi-Agent Systems Under Directed Graphs. <i>Asian Journal of Control</i> , 2018, 20, 646-658.	1.9	40
42	Robust Fixed-Time Stabilization Control of Generic Linear Systems With Mismatched Disturbances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 759-768.	5.9	39
43	Three-Dimensional Path-Following Backstepping Control for an Underactuated Stratospheric Airship. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 1483-1497.	2.6	38
44	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3752-3762.	5.2	37
45	Formation control with disturbance rejection for a class of Lipschitz nonlinear systems. <i>Science China Information Sciences</i> , 2017, 60, 1.	2.7	35
46	Nonlinear robust control of tail-sitter aircrafts in flight mode transitions. <i>Aerospace Science and Technology</i> , 2018, 81, 348-361.	2.5	34
47	Fixed-Time Cooperative Control of Multi-Agent Systems. , 2019, , .		34
48	Vision-based finite-time uncooperative target tracking for UAV subject to actuator saturation. <i>Automatica</i> , 2021, 130, 109708.	3.0	33
49	Reinforcement Learning-Based Fixed-Time Trajectory Tracking Control for Uncertain Robotic Manipulators With Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 4584-4595.	7.2	33
50	Distributed Optimization of Multiagent Systems With Preserved Network Connectivity. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3980-3990.	6.2	32
51	Control of Gear Transmission Servo Systems With Asymmetric Deadzone Nonlinearity. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 1472-1479.	3.2	31
52	Nodes selection strategy in cooperative tracking problem. <i>Automatica</i> , 2016, 74, 118-125.	3.0	29
53	Online Power Scheduling for Distributed Filtering Over an Energy-Limited Sensor Network. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 4216-4226.	5.2	28
54	Multivariable uniform finite-time output feedback reentry attitude control for RLV with mismatched disturbance. <i>Journal of the Franklin Institute</i> , 2018, 355, 3470-3487.	1.9	28

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73	Detection against randomly occurring complex attacks on distributed state estimation. Information Sciences, 2021, 547, 539-552.	4.0	12
74	Higher order sliding mode based lateral guidance and control of finless airship. Aerospace Science and Technology, 2021, 113, 106670.	2.5	12
75	Trajectory Tracking Control of a Quadrotor Unmanned Mini-Helicopter. , 2010, , .		11
76	A Divisive Hierarchical Clustering Approach to Hyperspectral Band Selection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	10
77	Almost global trajectory tracking control of quadrotors with constrained control inputs. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 856-869.	0.7	9
78	Backstepping control of sandwich-like nonlinear systems with deadzone nonlinearity. IET Control Theory and Applications, 2017, 11, 3122-3129.	1.2	9
79	Practical Fixed-time Position Tracking Control of Permanent Magnet DC Torque Motor Systems. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	3.7	9
80	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7268-7278.	5.9	9
81	Fixed-time stabilization of second-order uncertain multivariable nonlinear systems. , 2016, , .		7
82	Approximate analysis for main rotor flapping dynamics of a model-scaled helicopter with Bell-Hiller stabilizing bar in hovering and vertical flights. Nonlinear Dynamics, 2016, 85, 1705-1717.	2.7	7
83	Distributed fixed-time cooperative tracking control for multi-robot systems. , 2017, , .		6
84	Nonlinear Robust Flight Mode Transition Control for Tail-Sitter Aircraft. IEEE Access, 2018, 6, 65909-65921.	2.6	6
85	Event-triggered based practical fixed-time consensus for chained-form multi-agent systems with dynamic disturbances. Neurocomputing, 2022, 493, 414-421.	3.5	6
86	Cooperative control of distributed battery energy storage systems in Microgrids. , 2016, , .		5
87	Fixed-time leader-following consensus of multiple uncertain nonholonomic systems: An adaptive distributed observer approach. Journal of the Franklin Institute, 2022, 359, 6361-6391.	1.9	5
88	Three-Dimensional Consensus Path-Following for Second-Order Multi-Agent Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10060-10065.	0.4	4
89	Three dimensional path-following control of an under-actuated airship. , 2016, , .		4
90	Adaptive control of uncertain gear transmission servo systems with dead-zone nonlinearity. , 2016, , .		4

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91	Consensus disturbance rejection of network-connected dynamic systems with input delay and unknown network connectivity * *This research was supported by the National Natural Science Foundation of China (No. 61673034), and the China Scholarship Council (CSC).. IFAC-PapersOnLine, 2017, 50, 10357-10362.	0.5	4
92	Sampled-data distributed protocol for coordinated aggregation of multi-agent systems subject to communication delays. Nonlinear Analysis: Hybrid Systems, 2021, 43, 101108.	2.1	4
93	Hyperbolic tangent function based adaptive trajectory tracking control for quadrotors. , 2013, , .		3
94	Backstepping for Robust Trajectory Tracking*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1-6.	0.4	3
95	Backstepping control for gear transmission servo systems with unknown partially nonsymmetric deadzone nonlinearity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2580-2589.	1.1	3
96	Fixed-time nonlinear consensus algorithms for multi-agent systems with input delay. , 2017, , .		3
97	Robust disturbance attenuation for a class of uncertain Lipschitz nonlinear systems with input delay. International Journal of Control, 2019, 92, 1015-1021.	1.2	3
98	A new coordinated path-following control for second-order multi-agent systems. , 2014, , .		2
99	Adaptive backstepping control of gear transmission systems with elastic deadzone. , 2017, , .		2
100	Adaptive output feedback control of uncertain gear transmission system with dead zone nonlinearity. , 2018, , .		2
101	Passive vibration isolation of flexure jointed hexapod: A geometry design method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2496-2506.	1.1	2
102	Adaptive Trajectory Tracking of Stratospheric Airship Based on Input-output Stability Theory. , 2011, , .		1
103	Modeling, Stability Analysis and Simulation of a Stratosphere Hybrid Tethered Platform. , 2011, , .		1
104	Chattering-free sliding mode control for MIMO nonlinear manipulator systems based on adaptive neural networks. , 2015, , .		1
105	Controlled Lagrangians control for a quadrotor helicopter. , 2015, , .		1
106	Attitude tracking control of a 3-DOF helicopter with input and output constraints. , 2016, , .		1
107	Fixed-Time Stability and Stabilization. , 2019, , 17-44.		1
108	Fixed-Time Cooperative Control for First-Order Multi-Agent Systems. , 2019, , 45-58.		1

#	ARTICLE	IF	CITATIONS
109	Model Predictive Control for Discrete-time Linear Systems with Finite-time Convergence. , 2020, , .		1
110	Trajectory tracking of a quadrotor helicopter based on $\hat{\sigma}_1$ adaptive control. , 2016, , .		0
111	Adaptive Sliding Mode Control of Flexure Jointed Hexapods. , 2019, , .		0
112	Distributed Optimization: An Edge-Based Fixed-Time Consensus Approach. , 2019, , 105-125.		0
113	Fixed-Time Cooperative Control for High-Order Multi-Agent Systems. , 2019, , 69-83.		0
114	Distributed Optimization with Preserved Network Connectivity. , 2019, , 127-151.		0
115	Enclosing Control for Stratospheric Airship to Circumnavigate a Moving Target*. , 2020, , .		0
116	Robust adaptive sliding mode tracking control for a rigid body based on Lie subgroups of $SO(3)$. Discrete and Continuous Dynamical Systems - Series S, 2022, .	0.6	0