

Hongjiu Yang

List of Publications by Year in descending order

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129
papers

2,692
citations

172457

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129
all docs

129
docs citations

129
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilient Control of Networked Control System Under DoS Attacks: A Unified Game Approach. IEEE Transactions on Industrial Informatics, 2016, 12, 1786-1794.	11.3	264
2	Active Disturbance Rejection Attitude Control for a Dual Closed-Loop Quadrotor Under Gust Wind. IEEE Transactions on Control Systems Technology, 2018, 26, 1400-1405.	5.2	157
3	Optimal control for networked control systems with disturbances: a delta operator approach. IET Control Theory and Applications, 2017, 11, 1325-1332.	2.1	125
4	Stabilization of networked control systems with nonuniform random sampling periods. International Journal of Robust and Nonlinear Control, 2011, 21, 501-526.	3.7	102
5	Event-Driven Control for Networked Control Systems With Quantization and Markov Packet Losses. IEEE Transactions on Cybernetics, 2017, 47, 2235-2243.	9.5	83
6	Adaptive control for attitude synchronisation of spacecraft formation via extended state observer. IET Control Theory and Applications, 2014, 8, 2171-2185.	2.1	77
7	Discrete-Time Sliding Mode Control With Disturbance Rejection. IEEE Transactions on Industrial Electronics, 2019, 66, 7967-7975.	7.9	67
8	Nonlinear Control for Tracking and Obstacle Avoidance of a Wheeled Mobile Robot With Nonholonomic Constraint. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	5.2	65
9	Analysis and Synthesis of Delta Operator Systems. Lecture Notes in Control and Information Sciences, 2012, , .	1.0	64
10	Trajectory tracking for wheeled mobile robots via model predictive control with softening constraints. IET Control Theory and Applications, 2018, 12, 206-214.	2.1	52
11	Sliding-Mode Predictive Control of Networked Control Systems Under a Multiple-Packet Transmission Policy. IEEE Transactions on Industrial Electronics, 2014, 61, 6234-6243.	7.9	51
12	Event-triggered predictive control for networked control systems with network-induced delays and packet dropouts. International Journal of Robust and Nonlinear Control, 2018, 28, 1350-1365.	3.7	48
13	Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1345-1353.	9.3	46
14	Stability Analysis for High Frequency Networked Control Systems. IEEE Transactions on Automatic Control, 2012, 57, 2694-2700.	5.7	44
15	Finite-time tracking control for pneumatic servo system via extended state observer. IET Control Theory and Applications, 2017, 11, 2808-2816.	2.1	43
16	Networked control for delta operator systems subject to actuator saturation. International Journal of Control, Automation and Systems, 2014, 12, 1345-1351.	2.7	42
17	Remote Nonlinear State Estimation With Stochastic Event-Triggered Sensor Schedule. IEEE Transactions on Cybernetics, 2019, 49, 734-745.	9.5	42
18	Power Allocation Robust to Time-Varying Wireless Channels in Femtocell Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2806-2815.	6.3	41

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19	Low frequency positive real control for delta operator systems. <i>Automatica</i> , 2012, 48, 1791-1795.	5.0	40
20	Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 6926-6937.	9.3	40
21	Active Disturbance Rejection Control for the Ranger Neutral Buoyancy Vehicle: A Delta Operator Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 9410-9420.	7.9	39
22	Position Control for Magnetic Rodless Cylinders With Strong Static Friction. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 5806-5815.	7.9	39
23	Robust tracking control for wheeled mobile robot based on extended state observer. <i>Advanced Robotics</i> , 2016, 30, 68-78.	1.8	35
24	Security Research on Wireless Networked Control Systems Subject to Jamming Attacks. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2022-2031.	9.5	35
25	Towards quantifying the impact of randomly occurred attacks on a class of networked control systems. <i>Journal of the Franklin Institute</i> , 2017, 354, 4966-4988.	3.4	33
26	Event-triggered distributed fusion estimation with random transmission delays. <i>Information Sciences</i> , 2019, 475, 67-81.	6.9	33
27	Analysis and design for delta operator systems with actuator saturation. <i>International Journal of Control</i> , 2014, 87, 987-999.	1.9	32
28	Event-triggered UKF for nonlinear dynamic systems with packet dropout. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 4208-4226.	3.7	32
29	Resilient control for wireless networked control systems under DoS attack via a hierarchical game. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 4604-4623.	3.7	32
30	Robust optimisation of power control for femtocell networks. <i>IET Signal Processing</i> , 2013, 7, 360-367.	1.5	29
31	Distributed Kalman Filtering Over Sensor Networks With Transmission Delays. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 5511-5521.	9.5	29
32	Guaranteed cost control of networked control systems based on delta operator Kalman filter. <i>International Journal of Adaptive Control and Signal Processing</i> , 2013, 27, 701-717.	4.1	28
33	Stochastic stability of a modified unscented Kalman filter with stochastic nonlinearities and multiple fading measurements. <i>Journal of the Franklin Institute</i> , 2017, 354, 650-667.	3.4	27
34	Adaptive super-twisting trajectory tracking control for an unmanned aerial vehicle under gust winds. <i>Aerospace Science and Technology</i> , 2021, 115, 106833.	4.8	25
35	Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 601-609.	9.3	24
36	Event-Triggered Active MPC for Nonlinear Multiagent Systems With Packet Losses. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3093-3102.	9.5	24

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37	Fixed-Time Formation Control for Wheeled Mobile Robots With Prescribed Performance. IEEE Transactions on Control Systems Technology, 2022, 30, 844-851.	5.2	23
38	State estimation for linear systems with unknown input and random false data injection attack. IET Control Theory and Applications, 2019, 13, 823-831.	2.1	22
39	Trajectory tracking for a wheeled mobile robot with an omnidirectional wheel on uneven ground. IET Control Theory and Applications, 2020, 14, 921-929.	2.1	22
40	Leader-following consensus of heterogeneous multi-agent systems with packet dropout. International Journal of Control, Automation and Systems, 2015, 13, 1067-1075.	2.7	20
41	Filtering for a class of discrete-time systems with time-delays via delta operator approach. International Journal of Systems Science, 2010, 41, 423-433.	5.5	19
42	Robust Power Control for Amplify-and-Forward Relaying Scheme. IEEE Communications Letters, 2015, 19, 263-266.	4.1	19
43	A novel event-triggered extended state observer for networked control systems subjected to external disturbances. International Journal of Robust and Nonlinear Control, 2019, 29, 2026-2040.	3.7	19
44	Dual closed-loop tracking control for wheeled mobile robots via active disturbance rejection control and model predictive control. International Journal of Robust and Nonlinear Control, 2020, 30, 80-99.	3.7	19
45	Stackelberg-Game-Based Defense Analysis Against Advanced Persistent Threats on Cloud Control System. IEEE Transactions on Industrial Informatics, 2020, 16, 1571-1580.	11.3	19
46	Extended-state-observer-based adaptive control for synchronisation of multi-agent systems with unknown nonlinearities. International Journal of Systems Science, 2015, 46, 2520-2530.	5.5	17
47	Fault Detection for Uncertain Fuzzy Systems Based on the Delta Operator Approach. Circuits, Systems, and Signal Processing, 2014, 33, 733-759.	2.0	15
48	Control of periodic sampling systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2015, 25, 3661-3678.	3.7	15
49	Adaptive finite-time control for high-order nonlinear systems with mismatched disturbances. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1296-1307.	4.1	15
50	Approach for power allocation in two-tier femtocell networks based on robust non-cooperative game. IET Communications, 2017, 11, 1549-1557.	2.2	15
51	Double-Loop Stability for High Frequency Networked Control Systems Subject to Actuator Saturation. IEEE Transactions on Cybernetics, 2019, 49, 1454-1462.	9.5	15
52	Stability analysis on networked control systems under double attacks with predictive control. International Journal of Robust and Nonlinear Control, 2020, 30, 1549-1563.	3.7	15
53	Quantized stabilization of networked control systems with actuator saturation. International Journal of Robust and Nonlinear Control, 2016, 26, 3595-3610.	3.7	14
54	Position control of a rodless cylinder in pneumatic servo with actuator saturation. ISA Transactions, 2019, 90, 235-243.	5.7	14

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55	Active Disturbance Rejection Control for Teleoperation Systems with Actuator Saturation. Asian Journal of Control, 2019, 21, 702-713.	3.0	14
56	Composite Nonlinear Path-Following Control for Unmanned Ground Vehicles With Anti-Windup ESO. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5865-5876.	9.3	14
57	Joint Subchannel and Power Allocation in Secure Transmission Design for Femtocell Networks. IEEE Systems Journal, 2018, 12, 2688-2698.	4.6	13
58	Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 111-122.	9.3	13
59	Cooperative control for multiple quadrotors under position deviations and aerodynamic drag. Mechanical Systems and Signal Processing, 2021, 147, 107096.	8.0	12
60	Event-triggered model predictive control for multi-vehicle systems with collision avoidance and obstacle avoidance. International Journal of Robust and Nonlinear Control, 2021, 31, 5476-5494.	3.7	12
61	Gain Scheduling Control of Delta Operator System Using Network-Based Measurements. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 538-547.	4.7	11
62	Enlarging the domain of attraction and maximising convergence rate for delta operator systems with actuator saturation. International Journal of Control, 2015, 88, 2030-2043.	1.9	11
63	Stability Analysis of Delta Operator Systems with Actuator Saturation by a Saturation-Dependent Lyapunov Function. Circuits, Systems, and Signal Processing, 2015, 34, 971-986.	2.0	11
64	Integral sliding mode control of a bilateral teleoperation system based on extended state observers. International Journal of Control, Automation and Systems, 2017, 15, 2118-2125.	2.7	11
65	Nonlinear sampled-data ESO-based active disturbance rejection control for networked control systems with actuator saturation. Nonlinear Dynamics, 2019, 95, 1415-1434.	5.2	11
66	Low-frequency robust control for singularly perturbed system. IET Control Theory and Applications, 2015, 9, 203-210.	2.1	10
67	Output regulation for linear delta operator systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2017, 27, 1043-1063.	3.7	10
68	Predictive cloud control for multiagent systems with stochastic event-triggered schedule. ISA Transactions, 2019, 94, 70-79.	5.7	10
69	Practical stability analysis of sampled-data switched systems with quantization and delay. International Journal of Robust and Nonlinear Control, 2020, 30, 5267-5289.	3.7	10
70	Trajectory Tracking and Obstacle Avoidance for Wheeled Mobile Robots Based on EMPC With an Adaptive Prediction Horizon. IEEE Transactions on Cybernetics, 2022, 52, 13536-13545.	9.5	10
71	A survey on the recent development of securing the networked control systems. Systems Science and Control Engineering, 2019, 7, 54-64.	3.1	9
72	A resilient consensus strategy of near-optimal control for state-saturated multiagent systems with round-robin protocol. International Journal of Robust and Nonlinear Control, 2019, 29, 3200-3216.	3.7	9

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73	UKF for nonlinear systems with event-triggered data transmission and packet dropout. , 2016, , .		8
74	Multi-tasking optimal control of networked control systems: A delta operator approach. International Journal of Robust and Nonlinear Control, 2017, 27, 2842-2860.	3.7	8
75	Static Output Feedback for Low-Frequency Networked Control Systems With a Decentralized Event-Triggered Scheme. IEEE Transactions on Cybernetics, 2021, 51, 4227-4236.	9.5	8
76	Stochastic Event-Triggered Distributed Fusion Estimation Under Jamming Attacks. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 309-321.	2.8	8
77	An adaptive fast super-twisting disturbance observer-based dual closed-loop attitude control with fixed-time convergence for UAV. Journal of the Franklin Institute, 2022, 359, 2514-2540.	3.4	8
78	Robust power allocation and price-based interference management in two-tier femtocell networks. , 2015, , .		7
79	Model predictive longitudinal control for autonomous electric vehicles with tracking differentiator. International Journal of Systems Science, 2021, 52, 2564-2579.	5.5	7
80	Stabilisation of networked delta operator systems with uncertainty. IET Control Theory and Applications, 2014, 8, 2289-2296.	2.1	6
81	Positioning control of a one-DOF manipulator driven by pneumatic artificial muscles based on active disturbance rejection control. , 2015, , .		6
82	Robust power control for femtocell networks with imperfect channel state information. IET Communications, 2016, 10, 882-890.	2.2	6
83	Chance-constraint optimization of power control in cognitive radio networks. Peer-to-Peer Networking and Applications, 2016, 9, 245-253.	3.9	6
84	Analysis and design of delta operator systems with nested actuator saturation. International Journal of Systems Science, 2016, 47, 3704-3710.	5.5	6
85	Self-triggered sampling control for networked control systems with delays and packets dropout. International Journal of Systems Science, 2018, 49, 1703-1714.	5.5	6
86	Asynchronous Information Fusion in Intelligent Driving Systems for Target Tracking Using Cameras and Radars. IEEE Transactions on Industrial Electronics, 2023, 70, 2708-2717.	7.9	6
87	A new adaptive unscented Kalman filter based on covariance matching technique. , 2014, , .		5
88	Stabilization on null controllable region of delta operator systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2016, 26, 3481-3506.	3.7	5
89	Fuzzy Model Identification with Sparse Bayesian Techniques. Neural Processing Letters, 2019, 50, 2945-2962.	3.2	5
90	Resilient Control for Wireless Cyber-Physical Systems Subject to Jamming Attacks: A Cross-Layer Dynamic Game Approach. IEEE Transactions on Cybernetics, 2022, 52, 2599-2608.	9.5	5

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91	Distributed secure estimation for cyber-physical systems with fading measurements and false data injection attacks. <i>International Journal of Systems Science</i> , 2020, 51, 2746-2766.	5.5	5
92	Event-Triggered Distributed Fusion for Multirate Multisensor Systems With Heavy-Tailed Noises. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 3137-3150.	9.3	5
93	The safety region-based model predictive control for discrete-time systems under deception attacks. <i>International Journal of Systems Science</i> , 2021, 52, 2144-2160.	5.5	5
94	Extended State Functional Observer-Based Event-Driven Disturbance Rejection Control for Discrete-Time Systems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 6949-6958.	9.5	5
95	Reduced-Order H_∞ Filter Design for Delta Operator Systems Over Multiple Frequency Intervals. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 5376-5383.	5.7	4
96	Distributed Stochastic MPC for Networked Linear Systems With a Multirate Sampling Mechanism. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 2250-2261.	9.3	4
97	Resilient strategy design for cyber-physical system under active eavesdropping attack. <i>Journal of the Franklin Institute</i> , 2021, 358, 5281-5304.	3.4	4
98	Adaptive longitudinal control for multivehicle cooperative systems with actuator saturation under road bumps. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 3361-3385.	3.7	4
99	Formation Control of Wheeled Mobile Robots With Multiple Virtual Leaders Under Communication Failures. <i>IEEE Transactions on Control Systems Technology</i> , 2023, 31, 295-305.	5.2	4
100	Stability analysis for delta operator systems subject to state saturation. <i>International Journal of Systems Science</i> , 2016, 47, 3696-3703.	5.5	3
101	Overall convergence rate of delta operator systems subject to actuator saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3564-3581.	3.7	3
102	Adaptive Control for Large-Scale Nonlinear Systems With Time Delays and Unmodeled Dynamics. <i>IEEE Access</i> , 2017, 5, 938-945.	4.2	3
103	A complete stability analysis for planar delta operator systems subject to state saturation. <i>Asian Journal of Control</i> , 2020, 22, 1537-1546.	3.0	3
104	Back-stepping control of two-link flexible manipulator based on extended state observer. , 2015, , .		2
105	Fault-tolerant control of delta operator systems with actuator saturation and effectiveness loss. <i>International Journal of Systems Science</i> , 2016, 47, 2428-2439.	5.5	2
106	Energy-efficient power control for two-tier femtocell networks with block-fading channels. <i>International Journal of Distributed Sensor Networks</i> , 2017, 13, 155014771770792.	2.2	2
107	Data-Driven Filtering for Nonlinear Systems With Bounded Noises and Quantized Measurements. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018, 65, 3404-3413.	5.4	2
108	Composite control for trajectory tracking of wheeled mobile robots with NLESO and NTSMC. <i>IET Control Theory and Applications</i> , 2021, 15, 1686-1694.	2.1	2

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109	ESO-based lateral control for electrical vehicles with unmodeled tire dynamics on uneven road. Mechanical Systems and Signal Processing, 2022, 177, 109132.	8.0	2
110	Joint power control and interference management in two-tier CDMA femtocell networks for multi-agent systems. , 2014, , .		1
111	A new tracking control method for synchronization of spacecraft formation with switching topologies. , 2014, , .		1
112	Stabilisation for Markovian jump delta operator systems with time-varying delays and actuator saturation. International Journal of Systems Science, 2017, 48, 1871-1881.	5.5	1
113	Adaptive Force Reflecting Control for Bilateral Teleoperation System Under Asymmetric Time-Varying Delays. , 2018, , .		1
114	Digital H ∞ filter design for a low frequency multiple-input multiple-output system with multirate measurements. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1
115	Robust power control for femtocell networks based on chance-constrained linear programs. , 2015, , .		0
116	An approach of power allocation scheme for relay communication networks based on seller-buyer game. , 2015, , .		0
117	Robust power control with probability constraint for co-channel two-tier femtocell networks. , 2015, , .		0
118	Analysis of power control for femtocell network with block-fading channel. , 2016, , .		0
119	Fuzzy control of spacecraft attitude maneuver by delta operator approach. , 2016, , .		0
120	Semi-global stabilisation with guaranteed regional performance for delta operator systems subject to actuator saturation. IET Control Theory and Applications, 2016, 10, 1127-1133.	2.1	0
121	Null controllable region of delta operator systems subject to actuator saturation. International Journal of Control, 2016, 89, 1509-1521.	1.9	0
122	Fuzzy control of spacecraft attitude maneuver under quantization. , 2017, , .		0
123	Fuzzy control of spacecraft attitude maneuver with actuator saturation. , 2017, , .		0
124	Multiple Input Regulation Design for a Class of Linear Systems with Single Output. , 2021, , .		0
125	Model predictive tracking control for wheeled mobile robots based on polytopic linear differential inclusion. , 2020, , .		0
126	Output Regulation of Coupled Nonlinear Multi-caused System. , 2020, , .		0

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127	Adaptive Estimation for Cause-Effect Control Systems with Model Parameters and Noise Perturbations. , 2020, , .		0
128	Networked Trajectory Tracking Control for a Nonlinear Wheeled Mobile Robot. , 2021, , .		0
129	Finite-Time Motion Control with Full-State Constraints for Autonomous Ground Vehicles on Curved Roads. , 2021, , .		0