

# Hao Zhang

## List of Publications by Year in descending order

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99  
papers

4,446  
citations

87888

38  
h-index

110387

64  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observer-Based Output Feedback Event-Triggered Control for Consensus of Multi-Agent Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 4885-4894.	7.9	466
2	Robust cooperative output regulation of multi-agent systems via adaptive event-triggered control. Automatica, 2019, 102, 129-136.	5.0	193
3	Codesign of Event-Triggered and Distributed $H_{\infty}$ Filtering for Active Semi-Vehicle Suspension Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1047-1058.	5.8	162
4	Event-Triggered Asynchronous Guaranteed Cost Control for Markov Jump Discrete-Time Neural Networks With Distributed Delay and Channel Fading. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3588-3598.	11.3	162
5	$H_{\infty}$ Fault Detection for Networked Mechanical Spring-Mass Systems With Incomplete Information. IEEE Transactions on Industrial Electronics, 2016, 63, 5622-5631.	7.9	160
6	Event-Based Distributed $H_{\infty}$ Filtering Networks of 2-DOF Quarter-Car Suspension Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 312-321.	11.3	136
7	Input-output finite-time mean square stabilization of nonlinear semi-Markovian jump systems. Automatica, 2019, 104, 82-89.	5.0	134
8	Adaptive Consensus-Based Distributed Target Tracking With Dynamic Cluster in Sensor Networks. IEEE Transactions on Cybernetics, 2019, 49, 1580-1591.	9.5	124
9	$H_{\infty}$ Output Tracking Control for Networked Systems With Adaptively Adjusted Event-Triggered Scheme. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2050-2058.	9.3	118
10	Adaptive Event-Triggered Transmission Scheme and $H_{\infty}$ Filtering Co-Design Over a Filtering Network With Switching Topology. IEEE Transactions on Cybernetics, 2019, 49, 4296-4307.	9.5	115
11	$H_{\infty}$ consensus of event-based multi-agent systems with switching topology. Information Sciences, 2016, 370-371, 623-635.	6.9	105
12	A Novel Sliding Mode Estimation for Microgrid Control With Communication Time Delays. IEEE Transactions on Smart Grid, 2019, 10, 1509-1520.	9.0	100
13	Distributed $H_{\infty}$ State Estimation for a Class of Filtering Networks With Time-Varying Switching Topologies and Packet Losses. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2047-2057.	9.3	99
14	Quantized Control Design for Impulsive Fuzzy Networked Systems. IEEE Transactions on Fuzzy Systems, 2011, 19, 1153-1162.	9.8	94
15	Dynamic output-feedback control of linear semi-Markov jump systems with incomplete semi-Markov kernel. Automatica, 2020, 117, 108997.	5.0	87
16	Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4643-4654.	9.3	85
17	Dynamic Event-Triggered Asynchronous Control for Nonlinear Multiagent Systems Based on $S$ -Fuzzy Models. IEEE Transactions on Fuzzy Systems, 2021, 29, 2580-2592.	9.8	81
18	Improved inequality-based functions approach for stability analysis of time delay system. Automatica, 2019, 108, 108416.	5.0	77

#	ARTICLE	IF	CITATIONS
19	Collision-Free Navigation of Autonomous Vehicles Using Convex Quadratic Programming-Based Model Predictive Control. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1103-1113.	5.8	73
20	Event-Triggered Guaranteed Cost Controller Design for T-S Fuzzy Markovian Jump Systems With Partly Unknown Transition Probabilities. IEEE Transactions on Fuzzy Systems, 2021, 29, 1052-1064.	9.8	69
21	L2 control design of event-triggered networked control systems with quantizations. Journal of the Franklin Institute, 2015, 352, 332-345.	3.4	64
22	Fuzzy Controller Design for Nonlinear Impulsive Fuzzy Systems With Time Delay. IEEE Transactions on Fuzzy Systems, 2011, 19, 844-856.	9.8	63
23	Stability Analysis for Delayed Neural Networks via Improved Auxiliary Polynomial-Based Functions. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2562-2568.	11.3	62
24	Sampled-data control of nonlinear networked systems with time delay and quantization. International Journal of Robust and Nonlinear Control, 2016, 26, 919-933.	3.7	61
25	Active Full-Vehicle Suspension Control via Cloud-Aided Adaptive Backstepping Approach. IEEE Transactions on Cybernetics, 2020, 50, 3113-3124.	9.5	60
26	Hidden-Markov-Model-Based Asynchronous $H_{\infty}$ Tracking Control of Fuzzy Markov Jump Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 1081-1092.	9.8	57
27	Stability analysis of linear systems with time-varying delay via intermediate polynomial-based functions. Automatica, 2020, 113, 108756.	5.0	56
28	Resilient Static Output Feedback Control of Linear Semi-Markov Jump Systems With Incomplete Semi-Markov Kernel. IEEE Transactions on Automatic Control, 2021, 66, 4274-4281.	5.7	56
29	Event-Triggered $H_{\infty}$ State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3320-3329.	9.3	55
30	Distributed Event-Triggered Adaptive Control for Cooperative Output Regulation of Heterogeneous Multiagent Systems Under Switching Topology. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4347-4358.	11.3	50
31	Distributed $H_{\infty}$ Filtering for Switched Repeated Scalar Nonlinear Systems With Randomly Occurred Sensor Nonlinearities and Asynchronous Switching. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2263-2270.	9.3	50
32	Consensus of multi-agent systems with linear dynamics using event-triggered control. IET Control Theory and Applications, 2014, 8, 2275-2281.	2.1	47
33	Aperiodic Sampled-Data-Based Control for Interval Type-2 Fuzzy Systems via Refined Adaptive Event-Triggered Communication Scheme. IEEE Transactions on Fuzzy Systems, 2021, 29, 310-321.	9.8	44
34	Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1233-1243.	9.3	43
35	Stability and Stabilization With Additive Freedom for Delayed Takagi-Sugeno Fuzzy Systems by Intermediary-Polynomial-Based Functions. IEEE Transactions on Fuzzy Systems, 2020, 28, 692-705.	9.8	41
36	Maneuvering Target Tracking With Event-Based Mixture Kalman Filter in Mobile Sensor Networks. IEEE Transactions on Cybernetics, 2020, 50, 4346-4357.	9.5	40

#	ARTICLE	IF	CITATIONS
37	Distributed event-triggered control for consensus of multi-agent systems over filtering networks. Journal of the Franklin Institute, 2017, 354, 3760-3770.	3.4	39
38	Intelligent Vehicle Self-Localization Based on Double-Layer Features and Multilayer LIDAR. IEEE Transactions on Intelligent Vehicles, 2020, 5, 616-625.	12.7	39
39	Distributed event-triggered control for consensus of multi-agent systems. Journal of the Franklin Institute, 2015, 352, 3476-3488.	3.4	38
40	Distributed Adaptive Event-Triggered Control and Stability Analysis for Vehicular Platoon. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1627-1638.	8.0	35
41	Asynchronous Output Feedback Control of Hidden Semi-Markov Jump Systems With Random Mode-Dependent Delays. IEEE Transactions on Automatic Control, 2022, 67, 4107-4114.	5.7	35
42	Adaptive Event-Triggered Predictive Control for Finite Time Microgrid. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1035-1044.	5.4	34
43	Robust Adaptive Fixed-Time Sliding-Mode Control for Uncertain Robotic Systems With Input Saturation. IEEE Transactions on Cybernetics, 2023, 53, 2636-2646.	9.5	34
44	Event-Based $H_{\infty}$ Fault Detection for Buck Converter With Multiplicative Noises Over Network. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2361-2370.	5.4	30
45	Membership-Function-Dependent Fault Detection Filtering Design for Interval Type-2 Tâ€S Fuzzy Systems in Finite Frequency Domain. IEEE Transactions on Fuzzy Systems, 2021, 29, 2760-2773.	9.8	28
46	Active Suspension System Control With Decentralized Event-Triggered Scheme. IEEE Transactions on Industrial Electronics, 2020, 67, 10798-10808.	7.9	26
47	Dynamic Event-Based Non-Fragile Dissipative State Estimation for Quantized Complex Networks With Fading Measurements and Its Application. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 856-867.	5.4	26
48	Dissipativity-based filter design for Markov jump systems with packet loss compensation. Automatica, 2021, 133, 109843.	5.0	25
49	Fault Detection Filtering Design for Discrete-Time Interval Type-2 Tâ€S Fuzzy Systems in Finite Frequency Domain. IEEE Transactions on Fuzzy Systems, 2021, 29, 213-225.	9.8	24
50	Finite-Time Dynamic Event-Triggered Distributed $H_{\infty}$ Filtering for T-S Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 2476-2486.	9.8	24
51	Reliable Control for Flexible Spacecraft Systems With Aperiodic Sampling and Stochastic Actuator Failures. IEEE Transactions on Cybernetics, 2022, 52, 3434-3445.	9.5	23
52	Distributed Event-Triggered Consensus of General Linear Multiagent Systems Under Directed Graphs. IEEE Transactions on Cybernetics, 2022, 52, 608-619.	9.5	23
53	Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2992-3003.	9.3	23
54	Interval Type-2 Fuzzy Control for HMM-Based Multiagent Systems via Dynamic Event-Triggered Scheme. IEEE Transactions on Fuzzy Systems, 2022, 30, 3063-3073.	9.8	23

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55	Fuzzy-Dependent-Switching Control of Nonlinear Systems With Aperiodic Sampling. IEEE Transactions on Fuzzy Systems, 2021, 29, 3349-3359.	9.8	21
56	Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5330-5337.	9.3	20
57	Fully Distributed Event-Triggered Vehicular Platooning With Actuator Uncertainties. IEEE Transactions on Vehicular Technology, 2021, 70, 6601-6612.	6.3	20
58	Sampling-Based Optimal Motion Planning With Smart Exploration and Exploitation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2376-2386.	5.8	19
59	Simultaneous Stabilization and Tracking of Nonholonomic WMRs With Input Constraints: Controller Design and Experimental Validation. IEEE Transactions on Industrial Electronics, 2019, 66, 5343-5352.	7.9	18
60	$H^\infty$ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7510-7516.	9.3	18
61	Observer-based decentralized event-triggered control for networked systems. Journal of the Franklin Institute, 2017, 354, 3744-3759.	3.4	17
62	Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6639-6649.	9.3	17
63	Compensation-Based Output Feedback Control for Fuzzy Markov Jump Systems With Random Packet Losses. IEEE Transactions on Cybernetics, 2022, 52, 12759-12770.	9.5	17
64	Event-Triggered Consensus of Multiagent Systems With Time-Varying Communication Delay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2706-2720.	9.3	17
65	Output-based event-triggered consensus of general linear multi-agent systems with communication delay under directed graphs. Journal of the Franklin Institute, 2020, 357, 3702-3720.	3.4	17
66	Distributed Event-Triggered Control for Cooperative Output Regulation of Multiagent Systems With an Online Estimation Algorithm. IEEE Transactions on Cybernetics, 2022, 52, 1911-1923.	9.5	16
67	Data-Based Optimal Consensus Control for Multiagent Systems With Policy Gradient Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3872-3883.	11.3	15
68	Enhanced Reduced-Order Extended State Observer for Motion Control of Differential Driven Mobile Robot. IEEE Transactions on Cybernetics, 2023, 53, 1299-1310.	9.5	15
69	$H^\infty$ filtering for T-S fuzzy networked systems with stochastic multiple delays and sensor faults. Neurocomputing, 2016, 207, 590-598.	5.9	14
70	Aperiodic Sampled-Data Takagi-Sugeno Fuzzy Extended State Observer for a Class of Uncertain Nonlinear Systems With External Disturbance and Unmodeled Dynamics. IEEE Transactions on Fuzzy Systems, 2022, 30, 2678-2692.	9.8	13
71	Leader-Following and Leaderless Consensus of Linear Multiagent Systems Under Directed Graphs by Double Dynamic Event-Triggered Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6426-6438.	9.3	12
72	Further Stability Criteria for Sampled-Data-Based Interval Type-2 Fuzzy Systems via a Refined Two-Side Looped-Functional Method. IEEE Transactions on Fuzzy Systems, 2023, 31, 265-277.	9.8	12

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73	Adaptive Switched Control for Connected Vehicle Platoon With Unknown Input Delays. IEEE Transactions on Cybernetics, 2023, 53, 1511-1521.	9.5	10
74	Distributed Localization for Dynamic Multiagent Systems With Randomly Varying Trajectory Lengths. IEEE Transactions on Industrial Electronics, 2022, 69, 9298-9308.	7.9	9
75	A Class of Optimal Switching Mixed Data Injection Attack in Cyber-Physical Systems. IEEE Robotics and Automation Letters, 2021, 6, 1598-1605.	5.1	9
76	Stochastic Event-Based Distributed Fusion Estimation Over Sensor Networks With Fading Channel. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1741-1750.	5.4	9
77	Distributed regular polygon formation control and obstacle avoidance for non-holonomic wheeled mobile robots with directed communication topology. IET Control Theory and Applications, 2020, 14, 1113-1122.	2.1	8
78	Distributed Control of Nonholonomic Robots Without Global Position Measurements Subject to Unknown Slippage Constraints. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 354-364.	13.1	8
79	Novel Extended State Observer Design for Uncertain Nonlinear Systems via Refined Dynamic Event-Triggered Communication Protocol. IEEE Transactions on Cybernetics, 2023, 53, 1856-1867.	9.5	8
80	Improved 3D Object Detector Under Snowfall Weather Condition Based on LiDAR Point Cloud. IEEE Sensors Journal, 2022, 22, 16276-16292.	4.7	8
81	Almost surely state estimation for multi-rate networked systems under random and malicious packet losses. Journal of the Franklin Institute, 2019, 356, 10593-10607.	3.4	7
82	Adaptive event based predictive lateral following control for unmanned ground vehicle system. International Journal of Robust and Nonlinear Control, 2021, 31, 4744-4763.	3.7	7
83	System Identification Based on Invariant Subspace. IEEE Transactions on Automatic Control, 2022, 67, 1327-1341.	5.7	6
84	Nonlinear State Estimation With Multisensor Stochastic Scheduling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3349-3359.	9.3	6
85	Distributed Localization of Multiagent Systems With Imperfect Channels Based on Iterative Learning. IEEE Transactions on Industrial Electronics, 2022, 69, 10521-10529.	7.9	6
86	Distributed Dimensionality Reduction Fusion Estimation for Stochastic Uncertain Systems With Fading Measurements Subject to Mixed Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7053-7064.	9.3	6
87	Robust $H_\infty$ Filtering for Uncertain Nonlinear Stochastic Systems with Mode-dependent Time-delays and Markovian Jump Parameters. Circuits, Systems, and Signal Processing, 2011, 30, 303-321.	2.0	5
88	Output Consensus of Heterogeneous Linear Multiagent Systems With Directed Graphs via Adaptive Dynamic Event-Triggered Mechanism. IEEE Transactions on Cybernetics, 2023, 53, 4606-4618.	9.5	3
89	Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4804-4813.	9.3	2
90	Tight Upper Bound for the Scrambling Constant of Uniformly Jointly Connected Directed Graphs With Application to Consensus of Multiagent Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 1082-1092.	3.7	2

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91	Dynamic Event-Triggered Control of Singularity-Perturbed Dynamic Networks and its Application. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3274-3278.	3.0	2
92	Distributed Localization for Multi-Agent Systems With Random Noise Based on Iterative Learning. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 952-960.	11.3	2
93	Self-supervised monocular depth estimation via asymmetric convolution block. IET Cyber-Systems and Robotics, 2022, 4, 131-138.	1.8	2
94	Data-Based Predictive Control via Multistep Policy Gradient Reinforcement Learning. IEEE Transactions on Cybernetics, 2023, 53, 2818-2828.	9.5	1
95	Quantized robust H-two filtering for Markovian jump linear systems over networks with nonaccessible mode information. Journal of Control Theory and Applications, 2011, 9, 505-512.	0.8	0
96	Passivity-Based Output Synchronization With Switching Graphs and Transmission Delays. IEEE Transactions on Cybernetics, 2022, 52, 3370-3379.	9.5	0
97	Fully Distributed Event-triggered Cooperative Output Regulation of Linear Parameter-varying Systems. , 2021, , .		0
98	A GEVP formulation for robust predictor feedback controller design of linear systems with uncertain input delay. International Journal of Systems Science, 2022, 53, 909-921.	5.5	0
99	Distributed Localization Estimation for Dynamic Multiagent Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 5797-5808.	11.3	0