

# Xiaohua Ge

## List of Publications by Year in descending order

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96  
papers

9,556  
citations

61984

43  
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85541

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all docs

97  
docs citations

97  
times ranked

4439  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview of Recent Advances in Event-Triggered Consensus of Multiagent Systems. IEEE Transactions on Cybernetics, 2018, 48, 1110-1123.	9.5	820
2	A survey on security control and attack detection for industrial cyber-physical systems. Neurocomputing, 2018, 275, 1674-1683.	5.9	694
3	Distributed networked control systems: A brief overview. Information Sciences, 2017, 380, 117-131.	6.9	505
4	Distributed Formation Control of Networked Multi-Agent Systems Using a Dynamic Event-Triggered Communication Mechanism. IEEE Transactions on Industrial Electronics, 2017, 64, 8118-8127.	7.9	496
5	An Overview of Recent Advances in Fixed-Time Cooperative Control of Multiagent Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 2322-2334.	11.3	428
6	A Dynamic Event-Triggered Transmission Scheme for Distributed Set-Membership Estimation Over Wireless Sensor Networks. IEEE Transactions on Cybernetics, 2019, 49, 171-183.	9.5	366
7	A Survey on Model-Based Distributed Control and Filtering for Industrial Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 2483-2499.	11.3	360
8	Distributed Event-Triggered Estimation Over Sensor Networks: A Survey. IEEE Transactions on Cybernetics, 2020, 50, 1306-1320.	9.5	322
9	Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3112-3125.	9.3	318
10	Secure State Estimation and Control of Cyber-Physical Systems: A Survey. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 176-190.	9.3	304
11	A survey on recent advances in distributed sampled-data cooperative control of multi-agent systems. Neurocomputing, 2018, 275, 1684-1701.	5.9	301
12	Networked control systems: a survey of trends and techniques. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1-17.	13.1	258
13	Resilient Control Design Based on a Sampled-Data Model for a Class of Networked Control Systems Under Denial-of-Service Attacks. IEEE Transactions on Cybernetics, 2020, 50, 3616-3626.	9.5	258
14	Distributed Krein space-based attack detection over sensor networks under deception attacks. Automatica, 2019, 109, 108557.	5.0	248
15	Distributed event-triggered $H^\infty$ filtering over sensor networks with communication delays. Information Sciences, 2015, 291, 128-142.	6.9	245
16	Achieving Cluster Formation of Multi-Agent Systems Under Aperiodic Sampling and Communication Delays. IEEE Transactions on Industrial Electronics, 2018, 65, 3417-3426.	7.9	239
17	Distributed Attack Detection and Secure Estimation of Networked Cyber-Physical Systems Against False Data Injection Attacks and Jamming Attacks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 48-59.	2.8	231
18	An overview of recent developments in Lyapunov–Krasovskii functionals and stability criteria for recurrent neural networks with time-varying delays. Neurocomputing, 2018, 313, 392-401.	5.9	207

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19	Event-Based Set-Membership Leader-Following Consensus of Networked Multi-Agent Systems Subject to Limited Communication Resources and Unknown-But-Bounded Noise. IEEE Transactions on Industrial Electronics, 2017, 64, 5045-5054.	7.9	198
20	A Threshold-Parameter-Dependent Approach to Designing Distributed Event-Triggered $H_{\infty}$ Consensus Filters Over Sensor Networks. IEEE Transactions on Cybernetics, 2019, 49, 1148-1159.	9.5	195
21	Consensus of Multiagent Systems Subject to Partially Accessible and Overlapping Markovian Network Topologies. IEEE Transactions on Cybernetics, 2017, 47, 1807-1819.	9.5	192
22	Dynamic Event-Triggered Scheduling and Platooning Control Co-Design for Automated Vehicles Over Vehicular Ad-Hoc Networks. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 31-46.	13.1	156
23	Secure Distributed Finite-Time Filtering for Positive Systems Over Sensor Networks Under Deception Attacks. IEEE Transactions on Cybernetics, 2020, 50, 1220-1229.	9.5	118
24	Fault-Tolerant Cooperative Control of Multiagent Systems: A Survey of Trends and Methodologies. IEEE Transactions on Industrial Informatics, 2020, 16, 4-17.	11.3	105
25	$H_{\infty}$ Containment Control of Multiagent Systems Under Event-Triggered Communication Scheduling: The Finite-Horizon Case. IEEE Transactions on Cybernetics, 2020, 50, 1372-1382.	9.5	99
26	Distributed Cyber Attacks Detection and Recovery Mechanism for Vehicle Platooning. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3821-3834.	8.0	91
27	Dynamic Event-triggered Control and Estimation: A Survey. International Journal of Automation and Computing, 2021, 18, 857-886.	4.5	88
28	Neural network-based control for discrete-time nonlinear systems with denial-of-service attack: The adaptive event-triggered case. International Journal of Robust and Nonlinear Control, 2022, 32, 2760-2779.	3.7	88
29	Finite-time containment control for nonlinear multi-agent systems with external disturbances. Information Sciences, 2020, 512, 338-351.	6.9	84
30	Secure Control of Multiagent Systems Against Malicious Attacks: A Brief Survey. IEEE Transactions on Industrial Informatics, 2022, 18, 3595-3608.	11.3	82
31	Sufficient conditions for a class of matrix-valued polynomial inequalities on closed intervals and application to $H_{\infty}$ control of discrete-time systems with denial-of-service attacks: A novel approach to $H_{\infty}$ control of discrete-time systems with denial-of-service attacks. International Journal of Robust and Nonlinear Control, 2022, 32, 2760-2779.	5.0	72
32	A novel approach to $H_{\infty}$ control of discrete-time systems with denial-of-service attacks: analysis of discrete-time networked systems subject to network-induced delays and malicious packet dropouts. Automatica, 2022, 136, 110010.	5.0	68
33	Resilient and secure remote monitoring for a class of cyber-physical systems against attacks. Information Sciences, 2020, 512, 1592-1605.	6.9	62
34	Distributed fault detection over sensor networks with Markovian switching topologies. International Journal of General Systems, 2014, 43, 305-318.	2.5	61
35	Secure Distributed Adaptive Platooning Control of Automated Vehicles Over Vehicular Ad-Hoc Networks Under Denial-of-Service Attacks. IEEE Transactions on Cybernetics, 2022, 52, 12003-12015.	9.5	60
36	Event-triggered dissipative control for networked stochastic systems under non-uniform sampling. Information Sciences, 2018, 447, 216-228.	6.9	58

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37	Distributed sampled-data asynchronous H <sub>∞</sub> filtering of Markovian jump linear systems over sensor networks. <i>Signal Processing</i> , 2016, 127, 86-99.	3.7	55
38	Decentralized Dynamic Event-Triggered Communication and Active Suspension Control of In-Wheel Motor Driven Electric Vehicles with Dynamic Damping. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 971-986.	13.1	55
39	Passivity Analysis of Delayed Neural Networks Based on Lyapunov-Krasovskii Functionals With Delay-Dependent Matrices. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 946-956.	9.5	52
40	Sampled-data H <sub>∞</sub> filtering of Takagi-Sugeno fuzzy systems with interval time-varying delays. <i>Journal of the Franklin Institute</i> , 2014, 351, 2515-2542.	3.4	51
41	Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 6466-6476.	9.3	51
42	An overview of neuronal state estimation of neural networks with time-varying delays. <i>Information Sciences</i> , 2019, 478, 83-99.	6.9	47
43	Resilient Tracking Control of Networked Control Systems Under Cyber Attacks. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2107-2119.	9.5	47
44	A Novel Finite-Sum Inequality-Based Method for Robust $H_{\infty}$ Control of Uncertain Discrete-Time Takagi-Sugeno Fuzzy Systems With Interval-Like Time-Varying Delays. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 2569-2582.	9.5	40
45	Distributed Secure Estimation Over Wireless Sensor Networks Against Random Multichannel Jamming Attacks. <i>IEEE Access</i> , 2017, 5, 10858-10870.	4.2	38
46	On asynchronous event-triggered control of decentralized networked systems. <i>Information Sciences</i> , 2018, 425, 127-139.	6.9	38
47	Novel stability criteria for linear time-delay systems using Lyapunov-Krasovskii functionals with a cubic polynomial on time-varying delay. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, , 1-9.	13.1	38
48	Scalable and Resilient Platooning Control of Cooperative Automated Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 3595-3608.	6.3	37
49	An Ellipsoidal Set-Membership Approach to Distributed Joint State and Sensor Fault Estimation of Autonomous Ground Vehicles. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 1107-1118.	13.1	36
50	Robust event-triggered $\{H\}_{\infty}$ controller design for vehicle active suspension systems. <i>Nonlinear Dynamics</i> , 2018, 94, 627-638.	5.2	35
51	Distributed $H_{\infty}$ filtering over sensor networks with heterogeneous Markovian coupling intercommunication delays. <i>IET Control Theory and Applications</i> , 2015, 9, 82-90.	2.1	34
52	Finite-Horizon H <sub>∞</sub> Bipartite Consensus Control of Cooperation-Competition Multiagent Systems With Round-Robin Protocols. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3699-3709.	9.5	33
53	Dynamic event-triggered scheduling and control for vehicle active suspension over controller area network. <i>Mechanical Systems and Signal Processing</i> , 2021, 152, 107481.	8.0	33
54	A Scalable Adaptive Approach to Multi-Vehicle Formation Control with Obstacle Avoidance. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 990-1004.	13.1	33

#	ARTICLE	IF	CITATIONS
55	Delay-Variation-Dependent Criteria on Extended Dissipativity for Discrete-Time Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1578-1587.	11.3	32
56	Resource-Efficient Platooning Control of Connected Automated Vehicles Over VANETs. IEEE Transactions on Intelligent Vehicles, 2022, 7, 579-589.	12.7	31
57	On Designing Distributed Prescribed Finite-Time Observers for Strict-Feedback Nonlinear Systems. IEEE Transactions on Cybernetics, 2021, 51, 4695-4706.	9.5	29
58	Comments and an improved result on asymptotic stability analysis for continuous system with additive time-varying delays: A less conservative result. Applied Mathematics and Computation, 2014, 241, 42-46.	2.2	28
59	Distributed Resilient Estimator Design for Positive Systems Under Topological Attacks. IEEE Transactions on Cybernetics, 2021, 51, 3676-3686.	9.5	26
60	The construction of augmented Lyapunov-Krasovskii functionals and the estimation of their derivatives in stability analysis of time-delay systems: a survey. International Journal of Systems Science, 2022, 53, 2480-2495.	5.5	26
61	Dynamic Event-Triggered Platooning Control of Automated Vehicles Under Random Communication Topologies and Various Spacing Policies. IEEE Transactions on Cybernetics, 2022, 52, 11477-11490.	9.5	20
62	A Soft Short-Circuit Diagnosis Method for Lithium-Ion Battery Packs in Electric Vehicles. IEEE Transactions on Power Electronics, 2022, 37, 8572-8581.	7.9	19
63	Resilient Load Frequency Control of Islanded AC Microgrids Under Concurrent False Data Injection and Denial-of-Service Attacks. IEEE Transactions on Smart Grid, 2023, 14, 690-700.	9.0	17
64	Communication-Constrained Active Suspension Control for Networked In-Wheel Motor-Driven Electric Vehicles With Dynamic Dampers. IEEE Transactions on Intelligent Vehicles, 2022, 7, 590-602.	12.7	16
65	Distributed guaranteed two-target tracking over heterogeneous sensor networks under bounded noises and adversarial attacks. Information Sciences, 2020, 535, 187-203.	6.9	15
66	Resilient Distributed Event-Triggered Control of Vehicle Platooning Under DoS Attacks. IFAC-PapersOnLine, 2020, 53, 1807-1812.	0.9	14
67	Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6170-6182.	9.3	13
68	Distributed Adaptive Fault-Tolerant Control for Heterogeneous Multiagent Systems With Time-Varying Communication Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4362-4372.	9.3	11
69	On designing overlapping group mode-dependent $H_\infty$ controllers of discrete-time Markovian jump linear systems with incomplete mode transition probabilities. International Journal of Robust and Nonlinear Control, 2015, 25, 3641-3660.	3.7	8
70	A brief survey of recent advances in consensus of sampled-data multi-agent systems. , 2016, , .		4
71	Dynamic Event-Triggered Vehicle Platooning Control: Trade-off Between Communication Efficiency and Platoon Performance. , 2021, , .		4
72	Detection of Cyber Attacks on Leader-Following Multi-Agent Systems. , 2019, , .		3

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73	A new delay-dependent stability criterion of fuzzy systems with interval time-varying delay. , 2010, , .		2
74	Distributed $H_\infty$ filtering of discrete-time linear systems over sensor networks with event-triggered communication. , 2015, , .		2
75	Cluster and local mode-dependent filtering for distributed Markovian jump systems in lossy multi-sensor networks. IET Signal Processing, 2017, 11, 295-303.	1.5	2
76	Fuzzy sampled-data $H_\infty$ filtering for systems with time-varying delays and variable sampling periods. , 2012, , .		1
77	Distributed event-triggered $H_\infty$ filtering over sensor networks with coupling delays. , 2013, , .		1
78	Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3108-3111.	9.3	1
79	Dynamic Event-Triggered Fault-Tolerant Control of Vehicle Active Suspension Systems. , 2020, , .		1
80	A New Stability Criterion of Networked Control Systems. , 2009, , .		0
81	A new robust stability criterion of networked control systems. , 2010, , .		0
82	Improved robust stability criteria for networked control systems. , 2010, , .		0
83	Output feedback stabilization of polytopic-type uncertain discrete systems with interval-like time-varying state and input delays. , 2012, , .		0
84	Overlapping mode-dependent $H_\infty$ filtering of discrete-time Markov jump linear systems. , 2013, , .		0
85	Distributed $H_\infty$ filtering of sensor networks with/without asymmetric intercommunication delays. , 2013, , .		0
86	Distributed fault detection for sensor networks with Markovian sensing topology. , 2013, , .		0
87	Distributed $H_\infty$ consensus filtering of stochastic systems with markovian coupling intercommunication delays. , 2013, , .		0
88	Overlapping mode-dependent $H_\infty$ control of discrete-time Markovian jump linear systems. , 2013, , .		0
89	On designing event-based consensus protocols for nonlinear multi-agent systems. , 2016, , .		0
90	Finite-Time Containment Control of Nonlinear Multi-Agent Systems with Non-Singular Terminal Sliding Mode. , 2018, , .		0

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91	Two-Target Tracking Over Heterogenous Sensor Networks Under Deception Attacks. , 2019, , .		0
92	Resilient Distributed Target Tracking Over Sensor Networks Against Misbehaving Nodes. , 2019, , .		0
93	Special issue on recent advances in security and privacy-preserving techniques of distributed networked systems. Information Sciences, 2021, 545, 277-279.	6.9	0
94	Performance analysis and synthesis of industrial cyber-physical systems. International Journal of Systems Science, 2021, 52, 1107-1109.	5.5	0
95	Networked Active Suspension Control of In-Wheel Motor Driven Electric Vehicles Under Aperiodic Sampling and Transmission Delays. Communications in Computer and Information Science, 2021, , 274-284.	0.5	0
96	Distributed filtering of networked dynamic systems with non-Gaussian noises over sensor networks: A survey. Kybernetika, 0, , 5-34.	0.0	0