Jiangping Hu

List of Publications by Year
in descending order

113 papers	5,627 citations	185998 28 h-index	79541 73 g-index
114 all docs	114 docs citations	114 times ranked	2476 citing authors

#	Article	IF	Citations
1	Tracking control for multi-agent consensus with an active leader and variable topology. Automatica, 2006, 42, 1177-1182.	3.0	1,749
2	Leader-following coordination of multi-agent systems with coupling time delays. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 853-863.	1.2	845
3	Distributed tracking control of leader–follower multi-agent systems under noisy measurement. Automatica, 2010, 46, 1382-1387.	3.0	434
4	Lyapunov-Based Approach to Multiagent Systems With Switching Jointly Connected Interconnection. IEEE Transactions on Automatic Control, 2007, 52, 943-948.	3.6	408
5	Emergent collective behaviors on coopetition networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1787-1796.	0.9	171
6	Consensus Control of General Linear Multiagent Systems With Antagonistic Interactions and Communication Noises. IEEE Transactions on Automatic Control, 2019, 64, 2122-2127.	3.6	145
7	Adaptive tracking control of leader–follower systems with unknown dynamics and partial measurements. Automatica, 2014, 50, 1416-1423.	3.0	139
8	Consensus control for multi-agent systems with double-integrator dynamics and time delays. IET Control Theory and Applications, 2010, 4, 109-118.	1.2	100
9	A Distributed Economic Dispatch Strategy for Power–Water Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 356-366.	2.4	90
10	Leader-following consensus for multi-agent systems via sampled-data control. IET Control Theory and Applications, 2011, 5, 1658-1665.	1.2	78
11	Adaptive bipartite consensus on coopetition networks. Physica D: Nonlinear Phenomena, 2015, 307, 14-21.	1.3	75
12	Data-driven optimal tracking control of discrete-time multi-agent systems with two-stage policy iteration algorithm. Information Sciences, 2019, 481, 189-202.	4.0	74
13	Consensus of second-order multi-agent systems with nonuniform time-varying delays. Neurocomputing, 2012, 97, 410-414.	3.5	73
14	Adaptive bipartite consensus control of high–order multiagent systems on coopetition networks. International Journal of Robust and Nonlinear Control, 2018, 28, 2868-2886.	2.1	73
15	Bipartite Consensus Control of High-Order Multiagent Systems With Unknown Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2189-2199.	5.9	69
16	A novel optimal bipartite consensus control scheme for unknown multi-agent systems via model-free reinforcement learning. Applied Mathematics and Computation, 2020, 369, 124821.	1.4	66
17	Adaptive Antisynchronization of Multilayer Reaction–Diffusion Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 807-818.	7.2	61
18	Finite-Time Velocity-Free Rendezvous Control of Multiple AUV Systems With Intermittent Communication. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6618-6629.	5.9	56

#	Article	IF	Citations
19	Optimal Tracking Control of Nonlinear Multiagent Systems Using Internal Reinforce Q-Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4043-4055.	7.2	51
20	Nonlinear filtering in target tracking using cooperative mobile sensors. Automatica, 2010, 46, 2041-2046.	3.0	49
21	An observer-based consensus tracking control and application to event-triggered tracking. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 559-570.	1.7	47
22	Interventional consensus for high-order multi-agent systems with unknown disturbances on coopetition networks. Neurocomputing, 2016, 194, 126-134.	3.5	42
23	Collective coordination of multi-agent systems guided by multiple leaders. Chinese Physics B, 2009, 18, 3777-3782.	0.7	41
24	Input–Output Data-Based Output Antisynchronization Control of Multiagent Systems Using Reinforcement Learning Approach. IEEE Transactions on Industrial Informatics, 2021, 17, 7359-7367.	7.2	39
25	Interventional bipartite consensus on coopetition networks with unknown dynamics. Journal of the Franklin Institute, 2017, 354, 4438-4456.	1.9	37
26	Finite-time observer based tracking control of uncertain heterogeneous underwater vehicles using adaptive sliding mode approach. Neurocomputing, 2022, 481, 322-332.	3.5	33
27	An ADMM Based Distributed Finite-Time Algorithm for Economic Dispatch Problems. IEEE Access, 2018, 6, 30969-30976.	2.6	31
28	Quantized tracking control for a multi–agent system with high–order leader dynamics. Asian Journal of Control, 2011, 13, 988-997.	1.9	29
29	Finite-time velocity-free observer-based consensus tracking for heterogeneous uncertain AUVs via adaptive sliding mode control. Ocean Engineering, 2021, 237, 109565.	1.9	28
30	OPTIMAL TARGET TRAJECTORY ESTIMATION AND FILTERING USING NETWORKED SENSORS. Journal of Systems Science and Complexity, 2008, 21, 325-336.	1.6	25
31	Distributed Optimal Tracking Control of Discrete-Time Multiagent Systems via Event-Triggered Reinforcement Learning. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3689-3700.	3.5	25
32	Bipartite consensus for multi-agent systems on directed signed networks. , 2013, , .		21
33	Data-Driven Reinforcement Learning for Walking Assistance Control of a Lower Limb Exoskeleton with Hemiplegic Patients. , 2020, , .		20
34	Data-driven containment control of discrete-time multi-agent systems via value iteration. Science China Information Sciences, 2020, 63, 1.	2.7	19
35	Learning-based Walking Assistance Control Strategy for a Lower Limb Exoskeleton with Hemiplegia Patients. , 2018, , .		16
36	Chaotification of a class of linear switching systems based on a Shilnikov criterion. Journal of the Franklin Institute, 2017, 354, 5519-5536.	1.9	15

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37	Observer-based output regulation of cooperative-competitive high-order multi-agent systems. Journal of the Franklin Institute, 2018, 355, 4111-4130.	1.9	15
38	New Event-based Control for Sampled-data Consensus of Multi-agent Systems. International Journal of Control, Automation and Systems, 2019, 17, 1107-1116.	1.6	15
39	Finite-Time Output Regulation of Linear Heterogeneous Multi-Agent Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1248-1252.	2.2	15
40	Adaptive bipartite consensus control of general linear multi-agent systems using noisy measurements. European Journal of Control, 2021, 59, 123-128.	1.6	14
41	Cooperative shift estimation of target trajectory using clustered sensors. Journal of Systems Science and Complexity, 2014, 27, 413-429.	1.6	13
42	Distributed initialization-free algorithms for multi-agent optimization problems with coupled inequality constraints. Neurocomputing, 2020, 407, 155-162.	3.5	13
43	Distributed inexact dual consensus ADMM for network resource allocation. Optimal Control Applications and Methods, 2019, 40, 1071-1087.	1.3	12
44	Periodic event‐triggered control of flywheel energy storage matrix systems for wind farms. IET Control Theory and Applications, 2020, 14, 1467-1477.	1.2	11
45	Data-Driven Optimal Assistance Control of a Lower Limb Exoskeleton for Hemiplegic Patients. Frontiers in Neurorobotics, 2020, 14, 37.	1.6	11
46	Distributed dynamic control for leaderless multi‐agent consensus with star‐like topology. Asian Journal of Control, 2008, 10, 233-237.	1.9	10
47	Distributed Functional Observer-based Event-triggered Containment Control of Multi-agent Systems. International Journal of Control, Automation and Systems, 2020, 18, 1094-1102.	1.6	10
48	Optimal Output Regulation for General Linear Systems via Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2022, 52, 11916-11926.	6.2	10
49	Bipartite consensus strategies for coopetition networks. , 2014, , .		9
50	Optimal output anti‐synchronisation of cooperative‐competitive multi‐agent systems via distributed observer. IET Control Theory and Applications, 2019, 13, 2029-2038.	1.2	9
51	Fully distributed output regulation of high-order multi-agent systems on coopetition networks. Neurocomputing, 2018, 281, 178-187.	3.5	8
52	Observer-based output feedback distributed event-triggered control for linear multi-agent systems under general directed graphs. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122288.	1.2	8
53	Distributed Inexact Consensus-Based ADMM Method for Multi-Agent Unconstrained Optimization Problem. IEEE Access, 2019, 7, 79311-79319.	2.6	8
54	Adaptive scaled consensus control of coopetition networks with high-order agent dynamics. International Journal of Control, 2021, 94, 909-922.	1.2	8

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55	Second-Order Multiagent Systems with Event-Driven Consensus Control. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.3	7
56	Event-based bipartite consensus on signed networks. , 2013, , .		7
57	Internal reinforcement adaptive dynamic programming for optimal containment control of unknown continuous-time multi-agent systems. Neurocomputing, 2020, 413, 85-95.	3.5	7
58	Bipartite output synchronization of heterogeneous time-varying multi-agent systems via edge-based adaptive protocols. Journal of the Franklin Institute, 2020, 357, 12808-12824.	1.9	7
59	Reset output feedback control of cluster linear multi-agent systems. Journal of the Franklin Institute, 2021, 358, 8419-8442.	1.9	7
60	Generating chaos for a class of linear switching control systems: A hybrid approach. Journal of the Franklin Institute, 2015, 352, 5853-5865.	1.9	6
61	Hand gesture based control strategy for mobile robots. , 2017, , .		6
62	Field Coil Optimization and Characteristics Contrastive Analysis for a High-Temperature Superconducting Generator Prototype. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-7.	1.1	6
63	Distributed event-triggered protocols with Kx-functional observer for leader-following multi-agent systems. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122457.	1.2	6
64	A Two-Phase Coverage Control Algorithm for Self-Orienting Heterogeneous Directional Sensor Networks. IEEE Access, 2020, 8, 88215-88226.	2.6	6
65	Bounded consensus tracking control of second-order multi-agent systems with active leader and jointly connected topology. Transactions of the Institute of Measurement and Control, 2018, 40, 504-513.	1.1	6
66	Bipartite Consensus Control of Multiagent Systems on Coopetition Networks. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.3	5
67	Fuzzy Hegselmann-Krause Opinion Dynamics with Opinion Leaders. , 2019, , .		5
68	On fuzzy Hegelsman-Krause opinion dynamics. , 2017, , .		4
69	Optimal Tracking Control of Heterogeneous Multi-agent Systems with Switching Topology Via Actor-Critic Neural Networks. , 2018, , .		4
70	On computer virus spreading using node-based model with time-delayed intervention strategies. Science China Information Sciences, 2019, 62, 1.	2.7	4
71	Secure Degrees of Freedom of MIMO Two-Way Wiretap Channel With no CSI Anywhere. IEEE Transactions on Wireless Communications, 2020, 19, 7927-7941.	6.1	4
72	Understanding the mechanism of human–computer game: a distributed reinforcement learning perspective. International Journal of Systems Science, 2020, 51, 2837-2848.	3.7	4

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73	Optimal containment control of continuous-time multi-agent systems with unknown disturbances using data-driven approach. Science China Information Sciences, 2020, 63, 1.	2.7	4
74	Reduced-order observer-based consensus control of linear multi-agent systems over directed networks with nonuniform communication delays. Transactions of the Institute of Measurement and Control, 2021, 43, 759-770.	1.1	4
75	Synchronous CODA opinion dynamics over social networks. , 2021, , .		4
76	Coordination for a Group of Autonomous Mobile Agents with Multiple Leaders. , 2006, , .		3
77	Adaptive Tracking Control of Second-Order Multiagent Systems with Jointly Connected Topologies. Mathematical Problems in Engineering, 2016, 2016, 1-11.	0.6	3
78	Adaptive bipartite consensus of multi-agent systems with high-order dynamics and antagonistic interactions. , 2016, , .		3
79	Adaptive Event-Triggered Motion Tracking Control Strategy for a Lower Limb Rehabilitation Exoskeleton. , 2021, , .		3
80	Consensus Problem of Multi-Agent Systems with an Active Leader and Time Delay. , 2006, , .		2
81	Optimal target trajectory estimation and filtering using networked sensors. , 2008, , .		2
82	Robust Consensus Tracking Control of A Second-order Leader-follower Multi-agent System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 130-135.	0.4	2
83	Adaptive bipartite tracking control of leader-follower systems on coopetition networks. , 2014, , .		2
84	Consensus Control of High-Order Multi-Agent Systems with Antagonistic Interactions and Measurement Noises * *This work was supported in part by the National Natural Science Foundation of China under Grants 61473061, 71503206, 61104104, and the Program for New Century Excellent Talents in University under Grant NCET-13-0091. IFAC-PapersOnLine, 2017, 50, 2482-2487.	0.5	2
85	Distributed power dispatch strategy for smart grids with nonuniform communication delays. , 2017, , .		2
86	Adaptive fault-tolerant tracking control for singular multi-agent systems. , 2017, , .		2
87	Optimal Walking Assistance Control of Lower Limb Exoskeleton Using Adaptive Learning Approach. , 2020, , .		2
88	Distributed multi-agent temporal-difference learning with full neighbor information. Control Theory and Technology, 2020, 18, 379-389.	1.0	2
89	Event-triggered Consensus Control of Multi-agent Systems with Nonuniform Communication Delays via Reduced-Order Observers. IFAC-PapersOnLine, 2020, 53, 3230-3235.	0.5	2
90	Second-order event-triggered tracking control with only position measurements. , 2012, , .		1

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91	Adaptive Leader-following Control of Second-order Multi-agent Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11691-11696.	0.4	1
92	Distributed Secondary Voltage Control of Microgrids with Nonuniform Time-Varying Delays. , 2018, , .		1
93	Bipartite consensus control of high-order multi-agent systems. IFAC-PapersOnLine, 2019, 52, 201-206.	0.5	1
94	Consensus of Linear Multi-Agent Systems by Distributed Event-Triggered Control with Functional Observers. , 2019, , .		1
95	Delayed Consensus control of High-Order Multi-Agent Systems via Distributed Reduced-Order Observer. , 2019, , .		1
96	Fully Distributed Finite-time Consensus Control of Autonomous Underwater Vehicles. , 2021, , .		1
97	Leader-Following Consensus Control of Nabla Discrete Fractional Order Multi-Agent Systems. IFAC-PapersOnLine, 2020, 53, 2897-2902.	0.5	1
98	Model-free Based Reinforcement Learning Control Strategy of Aircraft Attitude Systems. , 2020, , .		1
99	Distributed Estimation for Networked Systems. , 2009, , .		0
100	Nonlinear shift estimation and optimal sensor deployment for target tracking. , 2010, , .		0
101	Adaptive bipartite tracking control for coopetition networks. , 2015, , .		0
102	Adaptive average bipartite consensus control of high-order multi-agent systems on coopetition networks. , 2016, , .		0
103	Anti-synchronization problem for cooperative-competitive multi-layer neural networks with time delays and unknown dynamics. , 2016, , .		0
104	Adaptive consensus control of coopetition networks with high-order agent dynamics. , 2017, , .		0
105	Reduced-order observer-based consensus for multi-agent systems with nonuniform time-varying delays. , 2017, , .		0
106	Sampled-data control of networked control systems with event-triggered measurements. , 2019, , .		0
107	Distributed Event-Triggered Control With Functional Observers for Linear Multi-Agent Systems Consensus. , 2019, , .		0
108	Special issue on emerging challenges in multi-agent sensing, control and optimization. Control Theory and Technology, 2020, 18, 337-338.	1.0	0

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109	A Novel Cryogenic System Suitable for 10 MW Superconducting Wind Generators. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	0
110	Relative Angle Measurements Based Shape-Similar Formation for Mobile Robots with Input Time-Delay. , 2020, , .		0
111	Weak-Model Based Reinforcement Learning Control Strategy of Aircraft Attitude System. Lecture Notes in Electrical Engineering, 2022, , 5177-5187.	0.3	0
112	A solution strategy for distributed uncertain economic dispatch problems via scenario theory. Control Theory and Technology, 2021, 19, 499.	1.0	0
113	Special issue on cyber-physical systems and intelligent control in honor of the 65th birthday of Professor Bijoy K. Ghosh. Control Theory and Technology, 2021, 19, 421-424.	1.0	0