Jiahu Qin

List of Publications by Year
in descending order

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137 papers	6,510 citations	66343 42 h-index	64796 79 g-index
137 all docs	137 docs citations	137 times ranked	3583 citing authors

#	Article	IF	Citations
1	Recent Advances in Consensus of Multi-Agent Systems: A Brief Survey. IEEE Transactions on Industrial Electronics, 2017, 64, 4972-4983.	7.9	582
2	Cluster consensus control of generic linear multi-agent systems under directed topology with acyclic partition. Automatica, 2013, 49, 2898-2905.	5.0	322
3	Second-order consensus for multi-agent systems with switching topology and communication delay. Systems and Control Letters, 2011, 60, 390-397.	2.3	300
4	On the Bipartite Consensus for Generic Linear Multiagent Systems With Input Saturation. IEEE Transactions on Cybernetics, 2017, 47, 1948-1958.	9.5	285
5	Distributed k -Means Algorithm and Fuzzy c -Means Algorithm for Sensor Networks Based on Multiagent Consensus Theory. IEEE Transactions on Cybernetics, 2017, 47, 772-783.	9.5	260
6	Optimal Denial-of-Service Attack Scheduling With Energy Constraint Over Packet-Dropping Networks. IEEE Transactions on Automatic Control, 2018, 63, 1648-1663.	5.7	232
7	Adaptive Fault-Tolerant Consensus for a Class of Uncertain Nonlinear Second-Order Multi-Agent Systems With Circuit Implementation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2243-2255.	5.4	193
8	Exponential Synchronization of Complex Networks of Linear Systems and Nonlinear Oscillators: A Unified Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 510-521.	11.3	180
9	Coordination for Linear Multiagent Systems With Dynamic Interaction Topology in the Leader-Following Framework. IEEE Transactions on Industrial Electronics, 2014, 61, 2412-2422.	7.9	175
10	Adaptive Sliding Mode Consensus Tracking for Second-Order Nonlinear Multiagent Systems With Actuator Faults. IEEE Transactions on Cybernetics, 2019, 49, 1605-1615.	9.5	173
11	A Sufficient Condition for Convergence of Sampled-Data Consensus for Double-Integrator Dynamics With Nonuniform and Time-Varying Communication Delays. IEEE Transactions on Automatic Control, 2012, 57, 2417-2422.	5.7	169
12	Consensus of multiple second-order vehicles with a time-varying reference signal under directed topology. Automatica, 2011, 47, 1983-1991.	5.0	168
13	Cluster synchronization in directed networks of partial-state coupled linear systems under pinning control. Automatica, 2014, 50, 2341-2349.	5.0	158
14	Coordination of Multiple Agents With Double-Integrator Dynamics Under Generalized Interaction Topologies. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 44-57.	5.0	120
15	On Group Synchronization for Interacting Clusters of Heterogeneous Systems. IEEE Transactions on Cybernetics, 2017, 47, 4122-4133.	9.5	115
16	Optimal Synchronization Control of Multiagent Systems With Input Saturation via Off-Policy Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 85-96.	11.3	103
17	H_{infty} Consensus and Synchronization of Nonlinear Systems Based on A Novel Fuzzy Model. IEEE Transactions on Cybernetics, 2013, 43, 2157-2169.	9.5	102
18	On Discrete-Time Convergence for General Linear Multi-Agent Systems Under Dynamic Topology. IEEE Transactions on Automatic Control, 2014, 59, 1054-1059.	5.7	102

#	Article	IF	Citations
19	Stationary Consensus of Asynchronous Discrete-Time Second-Order Multi-Agent Systems Under Switching Topology. IEEE Transactions on Industrial Informatics, 2012, 8, 986-994.	11.3	100
20	On leaderless and leader-following consensus for interacting clusters of second-order multi-agent systems. Automatica, 2016, 74, 214-221.	5.0	92
21	Resilient Consensus of Discrete-Time Complex Cyber-Physical Networks Under Deception Attacks. IEEE Transactions on Industrial Informatics, 2020, 16, 4868-4877.	11.3	85
22	Robust $H_{infty }$ Group Consensus for Interacting Clusters of Integrator Agents. IEEE Transactions on Automatic Control, 2017, 62, 3559-3566.	5.7	84
23	Collective Circular Motion of Unicycle Type Vehicles With Nonidentical Constant Velocities. IEEE Transactions on Control of Network Systems, 2014, 1, 167-176.	3.7	80
24	Consensus-Based Distributed Coordination Between Economic Dispatch and Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 3709-3719.	9.0	79
25	Fault-Tolerant Cooperative Tracking Control via Integral Sliding Mode Control Technique. IEEE/ASME Transactions on Mechatronics, 2018, 23, 342-351.	5.8	75
26	Auxiliary Fault Tolerant Control With Actuator Amplitude Saturation and Limited Rate. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1816-1825.	9.3	72
27	On Synchronization of Dynamical Systems Over Directed Switching Topologies: An Algebraic and Geometric Perspective. IEEE Transactions on Automatic Control, 2020, 65, 5083-5098.	5.7	72
28	Neural Network-Based Adaptive Consensus Control for a Class of Nonaffine Nonlinear Multiagent Systems With Actuator Faults. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3633-3644.	11.3	68
29	Event-Triggered Algorithms for Leaderâ€“Follower Consensus of Networked Eulerâ€“Lagrange Agents. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1435-1447.	9.3	68
30	Social diversity promotes cooperation in spatial multigames. Europhysics Letters, 2017, 118, 18002.	2.0	67
31	Distributed Q -Learning-Based Online Optimization Algorithm for Unit Commitment and Dispatch in Smart Grid. IEEE Transactions on Cybernetics, 2020, 50, 4146-4156.	9.5	62
32	Output Containment Control for Heterogeneous Linear Multiagent Systems With Fixed and Switching Topologies. IEEE Transactions on Cybernetics, 2019, 49, 4117-4128.	9.5	59
33	Optimal Denial-of-Service attack energy management against state estimation over an SINR-based network. Automatica, 2020, 119, 109090.	5.0	59
34	Consensus strategy for a class of multiâ€agents with discrete secondâ€order dynamics. International Journal of Robust and Nonlinear Control, 2012, 22, 437-452.	3.7	56
35	A novel analysis on the efficiency of hierarchy among leader-following systems. Automatica, 2016, 73, 215-222.	5.0	52
36	Cluster Synchronization for Interacting Clusters of Nonidentical Nodes via Intermittent Pinning Control. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1747-1759.	11.3	52

#	Article	IF	Citations
37	Exponential consensus of general linear multi-agent systems under directed dynamic topology. Automatica, 2014, 50, 2327-2333.	5.0	51
38	Containment Control for Second-Order Multiagent Systems Communicating Over Heterogeneous Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 28, 1-13.	11.3	51
39	Coordination of Multiagents Interacting Under Independent Position and Velocity Topologies. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1588-1597.	11.3	50
40	Leader-Following Practical Cluster Synchronization for Networks of Generic Linear Systems: An Event-Based Approach. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 215-224.	11.3	45
41	Game Theoretic-Based Distributed Charging Strategy for PEVs in a Smart Charging Station. IEEE Transactions on Smart Grid, 2021, 12, 538-547.	9.0	45
42	Neighborhood Diversity Promotes Cooperation in Social Dilemmas. IEEE Access, 2018, 6, 5003-5009.	4.2	44
43	Fault-tolerant coordination control for second-order multi-agent systems with partial actuator effectiveness. Information Sciences, 2018, 423, 115-127.	6.9	41
44	Distributed least squares solver for network linear equations. Automatica, 2020, 113, 108798.	5.0	39
45	On pinning synchronisability of complex networks with arbitrary topological structure. International Journal of Systems Science, 2011, 42, 1559-1571.	5.5	38
46	Smart Home Energy Management. Energies, 2017, 10, 382.	3.1	38
47	On average consensus in directed networks of agents with switching topology and time delay. International Journal of Systems Science, 2011, 42, 1947-1956.	5.5	37
48	Randomized Consensus-Based Distributed Kalman Filtering Over Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2021, 66, 3794-3801.	5.7	36
49	Multi-Agent System Based Distributed Pattern Search Algorithm for Non-Convex Economic Load Dispatch in Smart Grid. IEEE Transactions on Power Systems, 2019, 34, 2093-2102.	6.5	35
50	Resilient Cooperative Source Seeking of Double-Integrator Multi-Robot Systems Under Deception Attacks. IEEE Transactions on Industrial Electronics, 2021, 68, 4218-4227.	7.9	35
51	Finiteâ€time attitude synchronisation for multiple spacecraft. IET Control Theory and Applications, 2016, 10, 1106-1114.	2.1	34
52	Circular Formation Algorithms for Multiple Nonholonomic Mobile Robots: An Optimization-Based Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 3693-3701.	7.9	33
53	Price-Based Residential Demand Response Management in Smart Grids: A Reinforcement Learning-Based Approach. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 123-134.	13.1	33
54	A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. IEEE Transactions on Power Systems, 2020, 35, 986-996.	6.5	32

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55	Collective Behavior for Group of Generic Linear Agents Interacting Under Arbitrary Network Topology. IEEE Transactions on Control of Network Systems, 2015, 2, 288-297.	3.7	31
56	Multi-Timer Based Event Synchronization Control for Sensor Networks and Its Application. IEEE Transactions on Industrial Electronics, 2016, 63, 7765-7775.	7.9	31
57	ISS Method for Coordination Control of Nonlinear Dynamical Agents Under Directed Topology. IEEE Transactions on Cybernetics, 2014, 44, 1832-1845.	9.5	29
58	Security Analysis for Dynamic State Estimation of Power Systems With Measurement Delays. IEEE Transactions on Cybernetics, 2023, 53, 2087-2096.	9.5	29
59	Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2272-2283.	9.3	28
60	An Analysis on Optimal Attack Schedule Based on Channel Hopping Scheme in Cyber-Physical Systems. IEEE Transactions on Cybernetics, 2021, 51, 994-1003.	9.5	26
61	Leaderless consensus control of dynamical agents under directed interaction topology. , 2011, , .		25
62	Consensus for constrained multiâ€agent systems with input saturation. International Journal of Robust and Nonlinear Control, 2016, 26, 2977-2993.	3.7	23
63	Second-order consensus with unknown dynamics via cyclic-small-gain method. IET Control Theory and Applications, 2012, 6, 2748-2756.	2.1	22
64	Robust Pinning Constrained Control and Adaptive Regulation of Coupled Chuaâ€™s Circuit Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3928-3940.	5.4	22
65	Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation. IEEE Transactions on Smart Grid, 2020, 11, 3827-3836.	9.0	22
66	On Group Synchronization for Clusters of Agents with Collectively Acyclic Intercluster Couplings. IEEE Transactions on Industrial Electronics, 2017, 64, 9560-9568.	7.9	21
67	Convergence analysis for multiple agents with double-integrator dynamics in a sampled-data setting. IET Control Theory and Applications, 2011, 5, 2089-2097.	2.1	20
68	Event-based leader-follower consensus for multiple Euler-Lagrange systems with parametric uncertainties. , 2016, , .		20
69	High-order Intuitionistic Fuzzy Cognitive Map Based on Evidential Reasoning Theory. IEEE Transactions on Fuzzy Systems, 2019, 27, 16-30.	9.8	20
70	Distributed Coordination Control and Industrial Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 4967-4971.	7.9	19
71	Adaptive finite-time consensus of a class of disturbed multi-agent systems. Journal of the Franklin Institute, 2018, 355, 4644-4664.	3.4	19
72	Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. IEEE Transactions on Power Systems, 2020, 35, 516-526.	6.5	19

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73	Multiplayer Stackelbergâ€“Nash Game for Nonlinear System via Value Iteration-Based Integral Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1429-1440.	11.3	19
74	Resilient consensusâ€based distributed optimization under deception attacks. International Journal of Robust and Nonlinear Control, 2021, 31, 1803-1816.	3.7	16
75	Hierarchical Optimal Synchronization for Linear Systems via Reinforcement Learning: A Stackelbergâ€“Nash Game Perspective. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1600-1611.	11.3	15
76	Multi-agent DRL-based data-driven approach for PEVs charging/discharging scheduling in smart grid. Journal of the Franklin Institute, 2022, 359, 1747-1767.	3.4	15
77	Output Group Synchronization for Networks of Heterogeneous Linear Systems Under Internal Model Principle. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1684-1695.	5.4	14
78	Dynamics of opinions with social biases. Automatica, 2019, 106, 374-383.	5.0	14
79	Interval consensus over random networks. Automatica, 2020, 111, 108603.	5.0	14
80	Reachability Analysis for Linear Discrete-Time Systems Under Stealthy Cyber Attacks. IEEE Transactions on Automatic Control, 2021, 66, 4444-4451.	5.7	14
81	Boundary Gap Based Reactive Navigation in Unknown Environments. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 468-477.	13.1	13
82	A Novel Location Strategy for Minimizing Monitors in Vehicle Emission Remote Sensing System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 500-510.	9.3	12
83	Distributed time-varying group formation control for generic linear systems with observer-based protocols. Neurocomputing, 2020, 397, 244-252.	5.9	12
84	Sampled-data consensus for multiple agents with discrete second-order dynamics. , 2010, , .		11
85	Synchronising second-order multi-agent systems under dynamic topology via reference model-based algorithm. Journal of Control and Decision, 2014, 1, 214-225.	1.6	11
86	Privacy-Preserving Optimal Energy Management for Smart Grid With Cloud-Edge Computing. IEEE Transactions on Industrial Informatics, 2022, 18, 4029-4038.	11.3	11
87	A Deep RL-Based Algorithm for Coordinated Charging of Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18774-18784.	8.0	9
88	Second-order consensus for networks of agents with fixed and switching topology. , 2009, , .		8
89	Event-based multi-agent cooperative control with quantized relative state measurements. , 2016, , .		8
90	Coverage Control of Unicycle Agents under Constant Speed Constraints * *The work of Q. Liu, M. Ye and C. Yu was supported by the Australian Research Council (ARC) under the ARC grants DP-130103610 and DP-160104500, by the National Natural Science Foundation of China (grant 61375072), by Data61-CSIRO (formerly NICTA) and a China Scholarship Council PhD scholarship. The work of J. Qin was supported in part by the National natural Science Foundation of China under Grant 61473269 and in part by the Youth Innova. IFAC-PapersOnLine, 2017, 50, 2471-2476.	0.9	8

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91	Optimal sensor scheduling for two linear dynamical systems under limited resources in sensor networks. Neurocomputing, 2018, 273, 101-110.	5.9	8
92	Discretization-based stabilization for a class of switched linear systems with communication delays. ISA Transactions, 2018, 80, 1-11.	5.7	8
93	Exponential Consensus of Linear Systems Over Switching Network: A Subspace Method to Establish Necessity and Sufficiency. IEEE Transactions on Cybernetics, 2022, 52, 1565-1574.	9.5	8
94	Adaptive perturbation rejection control and driving voltage circuit designs of wheeled mobile robots. Journal of the Franklin Institute, 2021, 358, 1185-1213.	3.4	8
95	Distributed Clustering Algorithm in Sensor Networks via Normalized Information Measures. IEEE Transactions on Signal Processing, 2020, 68, 3266-3279.	5.3	7
96	Distributed Bayesian Inference Over Sensor Networks. IEEE Transactions on Cybernetics, 2023, 53, 1587-1597.	9.5	7
97	On distributed cluster consensus for multiple double-integrator agents. , 2013, , .		6
98	Model-free design of stochastic LQR controller from a primalâ€“dual optimization perspective. Automatica, 2022, 140, 110253.	5.0	6
99	On Necessary and Sufficient Conditions for Exponential Consensus in Dynamic Networks via Uniform Complete Observability Theory. IEEE Transactions on Automatic Control, 2021, 66, 4975-4981.	5.7	5
100	Synchronization for interacting clusters of generic linear agents and nonlinear oscillators: a unified analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1965-1970.	0.4	4
101	Extended evidential cognitive maps and its applications. Journal of the Franklin Institute, 2018, 355, 381-405.	3.4	4
102	On Containment for Linear Systems With Switching Topologies: A Novel State Transition Matrix Perspective. IEEE Transactions on Cybernetics, 2022, 52, 1061-1072.	9.5	4
103	Output synchronization for heterogeneous system via semi-Markov switching scheme with mode-switching delay. Information Sciences, 2021, 556, 194-208.	6.9	4
104	Containment for double-integrator multi-agent systems in heterogeneous networks. , 2014, , .		3
105	H<inf>âˆž</inf> group consensus for clusters of agents with model uncertainty and external disturbance. , 2015, , .		3
106	Distributed event-triggered bipartite consensus for multiple agents over signed graph topology. , 2015, , .		3
107	Event-based agreement protocols for complex networks with time delays under pinning control. Journal of the Franklin Institute, 2016, 353, 3999-4015.	3.4	3
108	Edge-event-based multi-agent consensus with Zeno-free triggers under synchronized/unsynchronized clocks. , 2017, , .		3

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109	Circular motion of multiple nonholonomic robots under switching topology with ordinal ranking. Journal of the Franklin Institute, 2020, 357, 10737-10756.	3.4	3
110	Group consensus of multiple integrator agents under general topology. , 2013, , .		2
111	Leaderless synchronization of linear multi-agent systems under directed switching topologies: An invariance approach. , 2013, , .		2
112	Consensus control of linear multi-agent systems under directed dynamic topology. , 2013, , .		2
113	Adaptive Neural Network Control for Consensus of Nonlinear Multi-Agent Systems with Actuator Faults. , 2018, , .		2
114	Bio-Inspired Dynamic Collective Choice in Large-Population Systems: A Robust Mean-Field Game Perspective. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1914-1924.	11.3	2
115	Distributedly solving network linear equations with eventâ€based algorithms. IET Control Theory and Applications, 2019, 13, 2738-2746.	2.1	2
116	ULODNet: A Unified Lane and Obstacle Detection Network Towards Drivable Area Understanding in Autonomous Navigation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	3.4	2
117	A new result on average consensus for multiple agents with switching topology and communication delay. , 2009, , .		1
118	TRIANGLE-Y EXCHANGES ON INTRINSIC KNOTTING OF ALMOST COMPLETE AND COMPLETE PARTITE GRAPHS. Journal of Knot Theory and Its Ramifications, 2012, 21, 1250034.	0.3	1
119	A novel result on cluster consensus control of multiple generic linear agents. , 2012, , .		1
120	An examination of coordination for homogeneous linear agents under arbitrary network topology. , 2013, , .		1
121	Finite-time consensus for multi-agent systems without velocity measurements and with input constraints. , 2014, , .		1
122	Coordination control for generic linear multi-agent systems with time delay: A semi-discretization approach. , 2015, , .		1
123	Synchronization of interconnected embedded systems via timer interrupts. , 2016, , .		1
124	Cluster synchronization for networks of generic linear systems and nonlinear oscillators via intermittent pinning control. , 2016, , .		1
125	On cluster synchronization of heterogeneous systems using contraction analysis. Neurocomputing, 2018, 282, 167-173.	5.9	1
126	A Fast Approximation Method for Partially Observable Markov Decision Processes. Journal of Systems Science and Complexity, 2018, 31, 1423-1436.	2.8	1

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127	A Task Alignment Framework for Low Cost Distributed Systems targeting Synchronized Monitoring and Control. IFAC-PapersOnLine, 2019, 52, 340-345.	0.9	1
128	A study of synchronization of complex networks via pinning control. , 2011, , .		0
129	Cluster synchronization in networks of partial-state coupled linear systems via pinning control technique* *The work of J. Qin was supported in part by Australian Federal and Canberra State Governments and the Australian Research Council through the ICT Centre of Excellence program, National ICT Australia (NICTA). The work of C. Yu was supported by the Australian Research Council through DP-130103610 and a Queen Elizabeth II Fellowship under DP-110100538, and the Overseas Expert Program of Shandong Province. IFAC Postprint Volumes IPPV / International Federation of Automatic	0.4	0
130	Convergence analysis for dynamic synchronization of second-order multi-agent systems via reference model based algorithm. , 2014, , .		0
131	Fault-tolerant consensus for a group of double-integrator agents communicating over directed topology. , 2016, , .		0
132	Exponential synchronization of partial-state coupled linear systems via contraction analysis. , 2016, , .		0
133	On the delay bound for coordination of multiple generic linear agents under arbitrary topology with time delay. Neurocomputing, 2018, 314, 267-274.	5.9	0
134	Observer-Based Distributed Time-Varying Group Formation Control for Heterogeneous Linear Systems under Directed Topology. , 2019, , .		0
135	Adaptive Perturbation Rejection Control for a Class of Converter Systems With Circuit Realization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4740-4750.	9.3	0
136	ç°¿æ€§äºŒæ¬¡äººStackelberg åšå¼ˆè¡ç‚,¹æ±,è§£ï¼šä¸€ç§Q å¦ä¹æ–¹æ³•. Scientia Sinica Informationis, 2021, 51.		0
137	On Discrete-Time Convergence for General Linear Multi-agent Systems Under Dynamic Topology. , 2019, , 1-19.		0