

Yongcan Cao

List of Publications by Year in descending order

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88
papers

8,773
citations

147801

31
h-index

206112

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g-index

90
all docs

90
docs citations

90
times ranked

4428
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview of Recent Progress in the Study of Distributed Multi-Agent Coordination. IEEE Transactions on Industrial Informatics, 2013, 9, 427-438.	11.3	1,814
2	Distributed Coordination of Multi-agent Networks. Communications and Control Engineering, 2011, , .	1.6	630
3	Distributed containment control with multiple stationary or dynamic leaders in fixed and switching directed networks. Automatica, 2012, 48, 1586-1597.	5.0	494
4	Distributed Coordinated Tracking With Reduced Interaction via a Variable Structure Approach. IEEE Transactions on Automatic Control, 2012, 57, 33-48.	5.7	457
5	Distributed Containment Control for Multiple Autonomous Vehicles With Double-Integrator Dynamics: Algorithms and Experiments. IEEE Transactions on Control Systems Technology, 2011, 19, 929-938.	5.2	456
6	Leaderless and Leader-Following Consensus With Communication and Input Delays Under a Directed Network Topology. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 75-88.	5.0	384
7	Decentralized finite-time sliding mode estimators and their applications in decentralized finite-time formation tracking. Systems and Control Letters, 2010, 59, 522-529.	2.3	358
8	Autopilots for small unmanned aerial vehicles: A survey. International Journal of Control, Automation and Systems, 2010, 8, 36-44.	2.7	348
9	Decentralized event-triggered consensus with general linear dynamics. Automatica, 2014, 50, 2633-2640.	5.0	292
10	Optimal Linear-Consensus Algorithms: An LQR Perspective. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 819-830.	5.0	265
11	Distributed Coordination of Networked Fractional-Order Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 362-370.	5.0	242
12	Multi-vehicle coordination for double-integrator dynamics under fixed undirected/directed interaction in a sampled-data setting. International Journal of Robust and Nonlinear Control, 2010, 20, 987-1000.	3.7	229
13	Distributed Average Tracking of Multiple Time-Varying Reference Signals With Bounded Derivatives. IEEE Transactions on Automatic Control, 2012, 57, 3169-3174.	5.7	211
14	Decentralised event-triggered cooperative control with limited communication. International Journal of Control, 2013, 86, 1479-1488.	1.9	206
15	Finite-time consensus for multi-agent networks with unknown inherent nonlinear dynamics. Automatica, 2014, 50, 2648-2656.	5.0	165
16	Distributed discrete-time coordinated tracking with a time-varying reference state and limited communication. Automatica, 2009, 45, 1299-1305.	5.0	164
17	Periodic Event-Triggered Synchronization of Linear Multi-Agent Systems With Communication Delays. IEEE Transactions on Automatic Control, 2017, 62, 366-371.	5.7	158
18	Distributed formation control for fractional-order systems: Dynamic interaction and absolute/relative damping. Systems and Control Letters, 2010, 59, 233-240.	2.3	149

#	ARTICLE	IF	CITATIONS
19	Containment control with multiple stationary or dynamic leaders under a directed interaction graph. , 2009, , .		142
20	Sampled-data discrete-time coordination algorithms for double-integrator dynamics under dynamic directed interaction. International Journal of Control, 2010, 83, 506-515.	1.9	141
21	Distributed adaptive fault-tolerant control of uncertain multi-agent systems. Automatica, 2018, 87, 142-151.	5.0	115
22	UAV circumnavigating an unknown target under a GPS-denied environment with range-only measurements. Automatica, 2015, 55, 150-158.	5.0	92
23	Autopilots for Small Fixed-Wing Unmanned Air Vehicles: A Survey. , 2007, , .		87
24	Surrounding control in cooperative agent networks. Systems and Control Letters, 2010, 59, 704-712.	2.3	86
25	Finite-Time Connectivity-Preserving Consensus of Networked Nonlinear Agents With Unknown Lipschitz Terms. IEEE Transactions on Automatic Control, 2016, 61, 1700-1705.	5.7	73
26	Band-reconfigurable Multi-UAV-based Cooperative Remote Sensing for Real-time Water Management and Distributed Irrigation Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11744-11749.	0.4	70
27	Distributed discrete-time coupled harmonic oscillators with application to synchronised motion coordination. IET Control Theory and Applications, 2010, 4, 806-816.	2.1	70
28	Convergence of sampled-data consensus algorithms for double-integrator dynamics. , 2008, , .		58
29	Exponential $2\alpha^{\zeta}$ output tracking control for discrete-time switched system with time-varying delay. International Journal of Robust and Nonlinear Control, 2012, 22, 1175-1194.	3.7	58
30	Multi-Agent Consensus Using Both Current and Outdated States with Fixed and Undirected Interaction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 58, 95-106.	3.4	56
31	Distributed Fault-Tolerant Control of Multiagent Systems: An Adaptive Learning Approach. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 420-432.	11.3	45
32	Coordinate frame free Dubins vehicle circumnavigation using only range-based measurements. International Journal of Robust and Nonlinear Control, 2017, 27, 2937-2960.	3.7	39
33	Diversity-Based Cooperative Multivehicle Path Planning for Risk Management in Costmap Environments. IEEE Transactions on Industrial Electronics, 2019, 66, 6117-6127.	7.9	39
34	Distributed coordination algorithms for multiple fractional-order systems. , 2008, , .		35
35	Decentralised event-triggered consensus of double integrator multi-agent systems with packet losses and communication delays. IET Control Theory and Applications, 2016, 10, 1835-1843.	2.1	31
36	Distributed adaptive fault-tolerant leader-following formation control of nonlinear uncertain second-order multi-agent systems. International Journal of Robust and Nonlinear Control, 2018, 28, 4287-4308.	3.7	29

#	ARTICLE	IF	CITATIONS
37	Stability and convergence analysis of multi-agent consensus with information reuse. International Journal of Control, 2010, 83, 1081-1092.	1.9	28
38	Distributed Adaptive Fault-Tolerant Control of Uncertain Multi-Agent Systems. IFAC-PapersOnLine, 2015, 48, 66-71.	0.9	25
39	An event-triggered control approach for the leader-tracking problem with heterogeneous agents. International Journal of Control, 2018, 91, 1209-1221.	1.9	25
40	Distributed coordinated tracking via a variable structure approach - part II: Swarm tracking. , 2010, , .		24
41	Finite-time consensus for second-order multi-agent networks with inherent nonlinear dynamics under an undirected fixed graph. , 2011, , .		22
42	Decentralized event-triggered consensus of Linear Multi-agent Systems under Directed Graphs. , 2015, , .		21
43	Experiments in Consensus-based Distributed Cooperative Control of Multiple Mobile Robots. , 2007, , .		20
44	Cooperative control with general linear dynamics and limited communication: Centralized and decentralized event-triggered control strategies. , 2014, , .		20
45	Multi-Agent Consensus Using Both Current and Outdated States. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2874-2879.	0.4	19
46	Sampled-data formation control under dynamic directed interaction. , 2009, , .		17
47	Distributed containment control for double-integrator dynamics: Algorithms and experiments. , 2010, , .		17
48	Unmanned Aerial Vehicle Circumnavigation Using Noisy Range-Based Measurements Without Global Positioning System Information. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	17
49	LQR-based optimal linear consensus algorithms. , 2009, , .		16
50	GPS Denied UAV Routing with Communication Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 691-703.	3.4	15
51	UAV circumnavigating an unknown target using range measurement and estimated range rate. , 2014, , .		13
52	Event-triggered cooperative control with general linear dynamics and communication delays. , 2014, , .		13
53	Consensus of multi-agent systems with state constraints: a unified view of opinion dynamics and containment control. , 2015, , .		12
54	Simulation and Experimental Study of Consensus Algorithms for Multiple Mobile Robots with Information Feedback. Intelligent Automation and Soft Computing, 2008, 14, 73-87.	2.1	10

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55	Average Bridge Consensus: Dealing With Active-Passive Sensors. , 2015, , .		10
56	An event-triggered consensus approach for distributed clock synchronization. , 2017, , .		10
57	Human-Guided Robot Behavior Learning: A GAN-Assisted Preference-Based Reinforcement Learning Approach. IEEE Robotics and Automation Letters, 2021, 6, 3545-3552.	5.1	9
58	Circumnavigation of an unknown target using UAVs with range and range rate measurements. , 2013, , .		8
59	Coordinate frame free Dubins vehicle circumnavigation. , 2014, , .		8
60	Distributed adaptive fault-tolerant control of nonlinear uncertain second-order multi-agent systems. , 2015, , .		8
61	Collective Circular Motion and Cooperative Circumnavigation for Nonholonomic Mobile Robots Using Range-based Measurements. , 2016, , .		8
62	UAV circumnavigation of an unknown target without location information using noisy range-based measurements. , 2014, , .		7
63	Cooperative control with general linear dynamics and limited communication: Periodic updates. , 2014, , .		6
64	Model-based event-triggered multi-vehicle coordinated tracking control using reduced order models. Journal of the Franklin Institute, 2014, 351, 4271-4286.	3.4	6
65	Fully bayesian learning and spatial reasoning with flexible human sensor networks. , 2015, , .		6
66	Finite-time consensus of multi-agent networks with inherent nonlinear dynamics under an undirected interaction graph. , 2011, , .		5
67	Distributed multi-agent coordination: A comparison lemma based approach. , 2011, , .		5
68	Finite-time consensus for second-order systems with unknown inherent nonlinear dynamics under an undirected switching graph. , 2012, , .		5
69	Deep Model Compression via Two-Stage Deep Reinforcement Learning. Lecture Notes in Computer Science, 2021, , 238-254.	1.3	5
70	Distributed coordination of fractional-order systems with extensions to directed dynamic networks and absolute/relative damping. , 2009, , .		4
71	Decentralized finite-time sliding mode estimators with applications to formation tracking. , 2010, , .		4
72	Finite-time consensus of networked Lipschitz nonlinear agents under communication constraints. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
73	Distributed adaptive fault-tolerant control of a class of high-order nonlinear uncertain multi-agent systems. , 2017, , .		4
74	An Iterative Multilayer Unsupervised Learning Approach for Sensory Data Reliability Evaluation. IEEE Transactions on Industrial Informatics, 2019, 15, 2199-2209.	11.3	4
75	Some stability and boundedness conditions for second-order leaderless and leader-following consensus with communication and input delays. , 2010, , .		3
76	Finite-time consensus for single-integrator kinematics with unknown inherent nonlinear dynamics under a directed interaction graph. , 2012, , .		3
77	Bayesian hidden Markov models for UAV-enabled target localization on road networks with soft-hard data. Proceedings of SPIE, 2015, , .	0.8	3
78	Adaptive Communication and Control Co-design For Multi-agent Coordination with Second-order Dynamics. , 2019, , .		3
79	Multi-objective cooperative search of spatially diverse routes in uncertain environments. , 2017, , .		2
80	Decentralized Event-Triggered Consensus of Autonomous Agents over Unreliable Communication Networks. , 2018, , .		2
81	Resilient Learning of Computational Models With Noisy Labels. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 351-360.	4.9	2
82	Distributed coordinated tracking via a variable structure approach - part I: Consensus tracking. , 2010, , .		1
83	Decentralized Sub-Optimal Minimum-Time Consensus. , 2014, , .		1
84	Distributed Fault-Tolerant Control of High-Order Input-Output Multi-Agent Systems. IFAC-PapersOnLine, 2018, 51, 453-458.	0.9	1
85	Graph Based Multi-Layer K-Means++ (G-MLKM) for Sensory Pattern Analysis in Constrained Spaces. Sensors, 2021, 21, 2069.	3.8	1
86	Analysis and control of complex cyber-physical networks. Asian Journal of Control, 2022, 24, 495-497.	3.0	1
87	UAV Circumnavigation under a GPS-denied Environment: Algorithms and Experiments. , 2015, , .		0
88	Towards energy-efficient communication management in the distributed control of networked cyber-physical systems. , 2017, , .		0