

Yongcan Cao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	6,182 citations	30 h-index	78 g-index
90 ext. papers	7,709 ext. citations	3.7 avg, IF	6.39 L-index

#	Paper	IF	Citations
79	An Overview of Recent Progress in the Study of Distributed Multi-Agent Coordination. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 427-438	11.9	1279
78	Distributed Coordination of Multi-agent Networks. <i>Communications and Control Engineering</i> , 2011 ,	0.6	409
77	Distributed containment control with multiple stationary or dynamic leaders in fixed and switching directed networks. <i>Automatica</i> , 2012 , 48, 1586-1597	5.7	353
76	Distributed Coordinated Tracking With Reduced Interaction via a Variable Structure Approach. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 33-48	5.9	344
75	Distributed Containment Control for Multiple Autonomous Vehicles With Double-Integrator Dynamics: Algorithms and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 929-938	4.8	339
74	Leaderless and leader-following consensus with communication and input delays under a directed network topology. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 75-88		288
73	Decentralized finite-time sliding mode estimators and their applications in decentralized finite-time formation tracking. <i>Systems and Control Letters</i> , 2010 , 59, 522-529	2.4	277
72	Autopilots for small unmanned aerial vehicles: A survey. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 36-44	2.9	259
71	Decentralized event-triggered consensus with general linear dynamics. <i>Automatica</i> , 2014 , 50, 2633-2640	5.7	217
70	Distributed coordination of networked fractional-order systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 362-70		190
69	Optimal linear-consensus algorithms: an LQR perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 819-30		188
68	Multi-vehicle coordination for double-integrator dynamics under fixed undirected/directed interaction in a sampled-data setting. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 987-1000	3.6	181
67	Decentralised event-triggered cooperative control with limited communication. <i>International Journal of Control</i> , 2013 , 86, 1479-1488	1.5	158
66	Distributed Average Tracking of Multiple Time-Varying Reference Signals With Bounded Derivatives. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 3169-3174	5.9	137
65	Distributed discrete-time coordinated tracking with a time-varying reference state and limited communication. <i>Automatica</i> , 2009 , 45, 1299-1305	5.7	127
64	Finite-time consensus for multi-agent networks with unknown inherent nonlinear dynamics. <i>Automatica</i> , 2014 , 50, 2648-2656	5.7	126
63	Distributed formation control for fractional-order systems: Dynamic interaction and absolute/relative damping. <i>Systems and Control Letters</i> , 2010 , 59, 233-240	2.4	115

62	Sampled-data discrete-time coordination algorithms for double-integrator dynamics under dynamic directed interaction. <i>International Journal of Control</i> , 2010 , 83, 506-515	1.5	110
61	Periodic Event-Triggered Synchronization of Linear Multi-Agent Systems With Communication Delays. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 366-371	5.9	101
60	Containment control with multiple stationary or dynamic leaders under a directed interaction graph 2009 ,		87
59	Distributed adaptive fault-tolerant control of uncertain multi-agent systems. <i>Automatica</i> , 2018 , 87, 142-151	3.51	61
58	Finite-Time Connectivity-Preserving Consensus of Networked Nonlinear Agents With Unknown Lipschitz Terms. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1700-1705	5.9	56
57	Distributed discrete-time coupled harmonic oscillators with application to synchronised motion coordination. <i>IET Control Theory and Applications</i> , 2010 , 4, 806-816	2.5	56
56	Surrounding control in cooperative agent networks. <i>Systems and Control Letters</i> , 2010 , 59, 704-712	2.4	52
55	UAV circumnavigating an unknown target under a GPS-denied environment with range-only measurements. <i>Automatica</i> , 2015 , 55, 150-158	5.7	51
54	Autopilots for Small Fixed-Wing Unmanned Air Vehicles: A Survey 2007 ,		51
53	Exponential l_2 output tracking control for discrete-time switched system with time-varying delay. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1175-1194	3.6	43
52	Multi-Agent Consensus Using Both Current and Outdated States with Fixed and Undirected Interaction. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2010 , 58, 95-106	2.9	42
51	Band-reconfigurable Multi-UAV-based Cooperative Remote Sensing for Real-time Water Management and Distributed Irrigation Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 11744-11749		42
50	Convergence of sampled-data consensus algorithms for double-integrator dynamics 2008 ,		35
49	Distributed coordination algorithms for multiple fractional-order systems 2008 ,		23
48	Coordinate frame free Dubins vehicle circumnavigation using only range-based measurements. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 2937-2960	3.6	21
47	Stability and convergence analysis of multi-agent consensus with information reuse. <i>International Journal of Control</i> , 2010 , 83, 1081-1092	1.5	21
46	An event-triggered control approach for the leader-tracking problem with heterogeneous agents. <i>International Journal of Control</i> , 2018 , 91, 1209-1221	1.5	20
45	Decentralised event-triggered consensus of double integrator multi-agent systems with packet losses and communication delays. <i>IET Control Theory and Applications</i> , 2016 , 10, 1835-1843	2.5	20

44	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6117-6127	8.9	20
43	Decentralized event-triggered consensus of Linear Multi-agent Systems under Directed Graphs 2015 ,		19
42	Distributed Fault-Tolerant Control of Multiagent Systems: An Adaptive Learning Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 420-432	10.3	19
41	Distributed Adaptive Fault-Tolerant Control of Uncertain Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 66-71	0.7	18
40	Finite-time consensus for second-order multi-agent networks with inherent nonlinear dynamics under an undirected fixed graph 2011 ,		17
39	Distributed adaptive fault-tolerant leader-following formation control of nonlinear uncertain second-order multi-agent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4287 ^{3.6}		15
38	Unmanned Aerial Vehicle Circumnavigation Using Noisy Range-Based Measurements Without Global Positioning System Information. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	14
37	Experiments in Consensus-based Distributed Cooperative Control of Multiple Mobile Robots 2007 ,		14
36	Cooperative control with general linear dynamics and limited communication: Centralized and decentralized event-triggered control strategies 2014 ,		13
35	UAV circumnavigating an unknown target using range measurement and estimated range rate 2014 ,		12
34	LQR-based optimal linear consensus algorithms 2009 ,		11
33	Sampled-data formation control under dynamic directed interaction 2009 ,		11
32	Event-triggered cooperative control with general linear dynamics and communication delays 2014 ,		10
31	Average Bridge Consensus: Dealing With Active-Passive Sensors 2015 ,		10
30	Consensus of multi-agent systems with state constraints: a unified view of opinion dynamics and containment control 2015 ,		9
29	An event-triggered consensus approach for distributed clock synchronization 2017 ,		9
28	Multi-Agent Consensus Using Both Current and Outdated States. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 2874-2879		9
27	GPS Denied UAV Routing with Communication Constraints. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 84, 691-703	2.9	8

26	Simulation and Experimental Study of Consensus Algorithms for Multiple Mobile Robots with Information Feedback. <i>Intelligent Automation and Soft Computing</i> , 2008 , 14, 73-87	2.6	8
25	Distributed adaptive fault-tolerant control of nonlinear uncertain second-order multi-agent systems 2015 ,		6
24	Model-based event-triggered multi-vehicle coordinated tracking control using reduced order models. <i>Journal of the Franklin Institute</i> , 2014 , 351, 4271-4286	4	5
23	Coordinate frame free Dubins vehicle circumnavigation 2014 ,		5
22	UAV circumnavigation of an unknown target without location information using noisy range-based measurements 2014 ,		4
21	Cooperative control with general linear dynamics and limited communication: Periodic updates 2014 ,		4
20	Distributed coordination of fractional-order systems with extensions to directed dynamic networks and absolute/relative damping 2009 ,		4
19	Distributed adaptive fault-tolerant control of a class of high-order nonlinear uncertain multi-agent systems 2017 ,		3
18	Bayesian hidden Markov models for UAV-enabled target localization on road networks with soft-hard data 2015 ,		3
17	Fully bayesian learning and spatial reasoning with flexible human sensor networks 2015 ,		2
16	Collective Circular Motion and Cooperative Circumnavigation for Nonholonomic Mobile Robots Using Range-based Measurements 2016 ,		2
15	An Iterative Multilayer Unsupervised Learning Approach for Sensory Data Reliability Evaluation. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2199-2209	11.9	2
14	Human-Guided Robot Behavior Learning: A GAN-Assisted Preference-Based Reinforcement Learning Approach. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3545-3552	4.2	2
13	Distributed Multi-Agent Coordination with Uncertain Interactions: A Probabilistic Perspective 2017 , 237-264		1
12	Multi-objective cooperative search of spatially diverse routes in uncertain environments 2017 ,		1
11	Decentralized Event-Triggered Consensus of Autonomous Agents over Unreliable Communication Networks 2018 ,		1
10	Decentralized Sub-Optimal Minimum-Time Consensus 2014 ,		1
9	Circumnavigation of an unknown target using UAVs with range and range rate measurements 2013 ,		1

8	Distributed coordinated tracking via a variable structure approach - part II: Swarm tracking 2010 ,		1
7	Distributed coordinated tracking via a variable structure approach - part I: Consensus tracking 2010 ,		1
6	Distributed multi-agent coordination: A comparison lemma based approach 2011 ,		1
5	Finite-time consensus for second-order systems with unknown inherent nonlinear dynamics under an undirected switching graph 2012 ,		1
4	Graph Based Multi-Layer K-Means++ (G-MLKM) for Sensory Pattern Analysis in Constrained Spaces. <i>Sensors</i> , 2021 , 21,	3.8	1
3	Deep Model Compression via Two-Stage Deep Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 238-254	0.9	1
2	Distributed Fault-Tolerant Control of High-Order Input-Output Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 453-458	0.7	1
1	Resilient Learning of Computational Models With Noisy Labels. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 5, 351-360	4.1	0