Yongcan Cao

List of Publications by Year in Descending Order

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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	Graph Based Multi-Layer K-Means++ (G-MLKM) for Sensory Pattern Analysis in Constrained Spaces. *Sensors*, **2021**, 21,	3.8	1
78	Human-Guided Robot Behavior Learning: A GAN-Assisted Preference-Based Reinforcement Learning Approach. *IEEE Robotics and Automation Letters*, **2021**, 6, 3545-3552	4.2	2
77	Resilient Learning of Computational Models With Noisy Labels. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2021**, 5, 351-360	4.1	0
76	Deep Model Compression via Two-Stage Deep Reinforcement Learning. *Lecture Notes in Computer Science*, **2021**, 238-254	0.9	1
75	Distributed Fault-Tolerant Control of Multiagent Systems: An Adaptive Learning Approach. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 420-432	10.3	19
74	An Iterative Multilayer Unsupervised Learning Approach for Sensory Data Reliability Evaluation. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 2199-2209	11.9	2
73	. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 6117-6127	8.9	20
72	Decentralized Event-Triggered Consensus of Autonomous Agents over Unreliable Communication Networks **2018**,		1
71	An event-triggered control approach for the leader-tracking problem with heterogeneous agents. *International Journal of Control*, **2018**, 91, 1209-1221	1.5	20
70	Distributed adaptive fault-tolerant control of uncertain multi-agent systems. *Automatica*, **2018**, 87, 142-151	3.1	61
69	Distributed Fault-Tolerant Control of High-Order Input-Output Multi-Agent Systems. *IFAC-PapersOnLine*, **2018**, 51, 453-458	0.7	1
68	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	3.6	15
67	Periodic Event-Triggered Synchronization of Linear Multi-Agent Systems With Communication Delays. *IEEE Transactions on Automatic Control*, **2017**, 62, 366-371	5.9	101
66	Distributed Multi-Agent Coordination with Uncertain Interactions: A Probabilistic Perspective **2017**, 237-264		1
65	Coordinate frame free Dubins vehicle circumnavigation using only range-based measurements. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 2937-2960	3.6	21
64	An event-triggered consensus approach for distributed clock synchronization **2017**,		9
63	Multi-objective cooperative search of spatially diverse routes in uncertain environments **2017**,		1

62	Distributed adaptive fault-tolerant control of a class of high-order nonlinear uncertain multi-agent systems **2017**,		3
61	Finite-Time Connectivity-Preserving Consensus of Networked Nonlinear Agents With Unknown Lipschitz Terms. *IEEE Transactions on Automatic Control*, **2016**, 61, 1700-1705	5.9	56
60	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	2.5	20
59	Collective Circular Motion and Cooperative Circumnavigation for Nonholonomic Mobile Robots Using Range-based Measurements **2016**,		2
58	GPS Denied UAV Routing with Communication Constraints. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2016**, 84, 691-703	2.9	8
57	UAV circumnavigating an unknown target under a GPS-denied environment with range-only measurements. *Automatica*, **2015**, 55, 150-158	5.7	51
56	Fully bayesian learning and spatial reasoning with flexible human sensor networks **2015**,		2
55	Consensus of multi-agent systems with state constraints: a unified view of opinion dynamics and containment control **2015**,		9
54	Distributed Adaptive Fault-Tolerant Control of Uncertain Multi-Agent Systems. *IFAC-PapersOnLine*, **2015**, 48, 66-71	0.7	18
53	Average Bridge Consensus: Dealing With Active-Passive Sensors **2015**,		10
52	Bayesian hidden Markov models for UAV-enabled target localization on road networks with soft-hard data **2015**,		3
51	Distributed adaptive fault-tolerant control of nonlinear uncertain second-order multi-agent systems **2015**,		6
50	Decentralized event-triggered consensus of Linear Multi-agent Systems under Directed Graphs **2015**,		19
49	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	14
48	UAV circumnavigation of an unknown target without location information using noisy range-based measurements **2014**,		4
47	Cooperative control with general linear dynamics and limited communication: Centralized and decentralized event-triggered control strategies **2014**,		13
46	UAV circumnavigating an unknown target using range measurement and estimated range rate **2014**,		12
45	Finite-time consensus for multi-agent networks with unknown inherent nonlinear dynamics. *Automatica*, **2014**, 50, 2648-2656	5.7	126

44	Decentralized event-triggered consensus with general linear dynamics. *Automatica*, **2014**, 50, 2633-2640	5.7	217
43	Model-based event-triggered multi-vehicle coordinated tracking control using reduced order models. *Journal of the Franklin Institute*, **2014**, 351, 4271-4286	4	5
42	Event-triggered cooperative control with general linear dynamics and communication delays **2014**,		10
41	Decentralized Sub-Optimal Minimum-Time Consensus **2014**,		1
40	Cooperative control with general linear dynamics and limited communication: Periodic updates **2014**,		4
39	Coordinate frame free Dubins vehicle circumnavigation **2014**,		5
38	Decentralised event-triggered cooperative control with limited communication. *International Journal of Control*, **2013**, 86, 1479-1488	1.5	158
37	An Overview of Recent Progress in the Study of Distributed Multi-Agent Coordination. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 427-438	11.9	1279
36	Circumnavigation of an unknown target using UAVs with range and range rate measurements **2013**,		1
35	Distributed Average Tracking of Multiple Time-Varying Reference Signals With Bounded Derivatives. *IEEE Transactions on Automatic Control*, **2012**, 57, 3169-3174	5.9	137
34	Distributed Coordinated Tracking With Reduced Interaction via a Variable Structure Approach. *IEEE Transactions on Automatic Control*, **2012**, 57, 33-48	5.9	344
33	Distributed containment control with multiple stationary or dynamic leaders in fixed and switching directed networks. *Automatica*, **2012**, 48, 1586-1597	5.7	353
32	Exponential l2-l∞ output tracking control for discrete-time switched system with time-varying delay. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 1175-1194	3.6	43
31	Finite-time consensus for second-order systems with unknown inherent nonlinear dynamics under an undirected switching graph **2012**,		1
30	Distributed Coordination of Multi-agent Networks. *Communications and Control Engineering*, **2011**,	0.6	409
29	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		288
28	Distributed Containment Control for Multiple Autonomous Vehicles With Double-Integrator Dynamics: Algorithms and Experiments. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 929-938	4.8	339
27	Distributed multi-agent coordination: A comparison lemma based approach **2011**,		1

26	Finite-time consensus for second-order multi-agent networks with inherent nonlinear dynamics under an undirected fixed graph **2011**,		17
25	Distributed discrete-time coupled harmonic oscillators with application to synchronised motion coordination. *IET Control Theory and Applications*, **2010**, 4, 806-816	2.5	56
24	Distributed coordinated tracking via a variable structure approach - part II: Swarm tracking **2010**,		1
23	Stability and convergence analysis of multi-agent consensus with information reuse. *International Journal of Control*, **2010**, 83, 1081-1092	1.5	21
22	Sampled-data discrete-time coordination algorithms for double-integrator dynamics under dynamic directed interaction. *International Journal of Control*, **2010**, 83, 506-515	1.5	110
21	Distributed coordination of networked fractional-order systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 362-70		190
20	Optimal linear-consensus algorithms: an LQR perspective. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 819-30		188
19	Distributed coordinated tracking via a variable structure approach - part I: Consensus tracking **2010**,		1
18	Autopilots for small unmanned aerial vehicles: A survey. *International Journal of Control, Automation and Systems*, **2010**, 8, 36-44	2.9	259
17	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	2.9	42
16	Distributed formation control for fractional-order systems: Dynamic interaction and absolute/relative damping. *Systems and Control Letters*, **2010**, 59, 233-240	2.4	115
15	Decentralized finite-time sliding mode estimators and their applications in decentralized finite-time formation tracking. *Systems and Control Letters*, **2010**, 59, 522-529	2.4	277
14	Surrounding control in cooperative agent networks. *Systems and Control Letters*, **2010**, 59, 704-712	2.4	52
13	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	3.6	181
12	Distributed coordination of fractional-order systems with extensions to directed dynamic networks and absolute/relative damping **2009**,		4
11	LQR-based optimal linear consensus algorithms **2009**,		11
10	Containment control with multiple stationary or dynamic leaders under a directed interaction graph **2009**,		87
9	Sampled-data formation control under dynamic directed interaction **2009**,		11

8	Distributed discrete-time coordinated tracking with a time-varying reference state and limited communication. *Automatica*, **2009**, 45, 1299-1305	5.7	127
7	Distributed coordination algorithms for multiple fractional-order systems **2008**,		23
6	Convergence of sampled-data consensus algorithms for double-integrator dynamics **2008**,		35
5	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		42
4	Simulation and Experimental Study of Consensus Algorithms for Multiple Mobile Robots with Information Feedback. *Intelligent Automation and Soft Computing*, **2008**, 14, 73-87	2.6	8
3	Multi-Agent Consensus Using Both Current and Outdated States. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 2874-2879		9
2	Experiments in Consensus-based Distributed Cooperative Control of Multiple Mobile Robots **2007**,		14
1	Autopilots for Small Fixed-Wing Unmanned Air Vehicles: A Survey **2007**,		51