

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.

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|-------------------|-------------------------|----------------|-----------------|
| 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. <i>Sensors</i> , 2021 , 21, | 3.8 | 1 |
| 78 | 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 |
| 77 | 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 |
| 76 | Deep Model Compression via Two-Stage Deep Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 238-254 | 0.9 | 1 |
| 75 | 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 |
| 74 | 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 |
| 73 | . <i>IEEE Transactions on Industrial Electronics</i> , 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. <i>International Journal of Control</i> , 2018 , 91, 1209-1221 | 1.5 | 20 |
| 70 | Distributed adaptive fault-tolerant control of uncertain multi-agent systems. <i>Automatica</i> , 2018 , 87, 142-151 | 3.7 | 61 |
| 69 | Distributed Fault-Tolerant Control of High-Order Input-Output Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 453-458 | 0.7 | 1 |
| 68 | 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, 4287-4301 | 3.6 | 15 |
| 67 | 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 |
| 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. <i>International Journal of Robust and Nonlinear Control</i> , 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 |

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| 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. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1700-1705 | 5.9 | 56 |
| 60 | 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 |
| 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. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 84, 691-703 | 2.9 | 8 |
| 57 | UAV circumnavigating an unknown target under a GPS-denied environment with range-only measurements. <i>Automatica</i> , 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. <i>IFAC-PapersOnLine</i> , 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. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 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. <i>Automatica</i> , 2014 , 50, 2648-2656 | 5.7 | 126 |

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| 44 | Decentralized event-triggered consensus with general linear dynamics. <i>Automatica</i> , 2014 , 50, 2633-2640 | 5.7 | 217 |
| 43 | 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 |
| 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. <i>International Journal of Control</i> , 2013 , 86, 1479-1488 | 1.5 | 158 |
| 37 | 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 |
| 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. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 3169-3174 | 5.9 | 137 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 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. <i>Communications and Control Engineering</i> , 2011 , | 0.6 | 409 |
| 29 | 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 |
| 28 | 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 |
| 27 | Distributed multi-agent coordination: A comparison lemma based approach 2011 , | | 1 |

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| 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. <i>IET Control Theory and Applications</i> , 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. <i>International Journal of Control</i> , 2010 , 83, 1081-1092 | 1.5 | 21 |
| 22 | 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 |
| 21 | Distributed coordination of networked fractional-order systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 362-70 | | 190 |
| 20 | Optimal linear-consensus algorithms: an LQR perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 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. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 36-44 | 2.9 | 259 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | Surrounding control in cooperative agent networks. <i>Systems and Control Letters</i> , 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. <i>International Journal of Robust and Nonlinear Control</i> , 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 |

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| 8 | Distributed discrete-time coordinated tracking with a time-varying reference state and limited communication. <i>Automatica</i> , 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. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 11744-11749 | | 42 |
| 4 | 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 |
| 3 | 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 |
| 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 |