Ziyang Meng

List of Publications by Year
in descending order

69 papers	3,967 citations	218677 26 h-index	118850 62 g-index
70 all docs	70 docs citations	70 times ranked	2203 citing authors

#	Article	IF	Citations
1	Distributed finite-time attitude containment control for multiple rigid bodies. Automatica, 2010, 46, 2092-2099.	5.0	808
2	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
3	A survey of distributed optimization. Annual Reviews in Control, 2019, 47, 278-305.	7.9	427
4	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
5	Global consensus for discrete-time multi-agent systems with input saturation constraints. Automatica, 2014, 50, 499-506.	5.0	293
6	Behaviors of networks with antagonistic interactions and switching topologies. Automatica, 2016, 73, 110-116.	5.0	151
7	Robust cooperative tracking for multiple non-identical second-order nonlinear systems. Automatica, 2013, 49, 2363-2372.	5.0	143
8	Leaderâ€“follower swarm tracking for networked Lagrange systems. Systems and Control Letters, 2012, 61, 117-126.	2.3	106
9	Distributed Formation Control for Multiple Vertical Takeoff and Landing UAVs With Switching Topologies. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1750-1761.	5.8	84
10	Coordinated trajectory tracking of multiple vertical take-off and landing UAVs. Automatica, 2019, 99, 33-40.	5.0	59
11	Formation control with mismatched compasses. Automatica, 2016, 69, 232-241.	5.0	54
12	Stability of Positive Switched Linear Systems: Weak Excitation and Robustness to Time-Varying Delay. IEEE Transactions on Automatic Control, 2017, 62, 399-405.	5.7	54
13	Decentralised cooperative attitude tracking using modified Rodriguez parameters based on relative attitude information. International Journal of Control, 2010, 83, 2427-2439.	1.9	53
14	Distributed Time-Varying Convex Optimization for a Class of Nonlinear Multiagent Systems. IEEE Transactions on Automatic Control, 2020, 65, 801-808.	5.7	52
15	Network Synchronization With Nonlinear Dynamics and Switching Interactions. IEEE Transactions on Automatic Control, 2016, 61, 3103-3108.	5.7	51
16	Immersion and Invariance-Based Adaptive Controller for Quadrotor Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2288-2297.	9.3	51
17	Uniform convergence for signed networks under directed switching topologies. Automatica, 2018, 90, 8-15.	5.0	44
18	Velocity-Free Leaderâ€“Follower Cooperative Attitude Tracking of Multiple Rigid Bodies on SO(3). IEEE Transactions on Cybernetics, 2019, 49, 4078-4089.	9.5	41

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19	Synchronization of Coupled Dynamical Systems: Tolerance to Weak Connectivity and Arbitrarily Bounded Time-Varying Delays. IEEE Transactions on Automatic Control, 2018, 63, 1791-1797.	5.7	37
20	Adaptive distributed optimization algorithms for Eulerâ€“Lagrange systems. Automatica, 2020, 119, 109060.	5.0	37
21	Disagreement of Hierarchical Opinion Dynamics with Changing Antagonisms. SIAM Journal on Control and Optimization, 2019, 57, 718-742.	2.1	35
22	Bearing-Based Distributed Formation Control of Multiple Vertical Take-Off and Landing UAVs. IEEE Transactions on Control of Network Systems, 2021, 8, 1281-1292.	3.7	34
23	An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2041-2053.	9.3	29
24	Stability and convergence analysis of multi-agent consensus with information reuse. International Journal of Control, 2010, 83, 1081-1092.	1.9	28
25	Targeted agreement of multiple Lagrangian systems. Automatica, 2017, 84, 109-116.	5.0	28
26	Distributed Control Algorithm for Leaderâ€“Follower Formation Tracking of Multiple Quadrotors: Theory and Experiment. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1095-1105.	5.8	27
27	On exponential stability of switched homogeneous positive systems of degree one. Automatica, 2019, 103, 302-309.	5.0	26
28	Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7260-7268.	9.3	24
29	Attitude Coordinated Control of Multiple Underactuated Axisymmetric Spacecraft. IEEE Transactions on Control of Network Systems, 2017, 4, 816-825.	3.7	23
30	Coordinated Attitude Synchronization and Tracking Control of Multiple Spacecraft Over a Communication Network With a Switching Topology. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1148-1162.	4.7	23
31	A UPF-PS SLAM Algorithm for Indoor Mobile Robot With NonGaussian Detection Model. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1-11.	5.8	22
32	Distributed Localization and Circumnavigation Algorithms for a Multiagent System With Persistent and Intermittent Bearing Measurements. IEEE Transactions on Control Systems Technology, 2021, 29, 2092-2101.	5.2	20
33	Distributed Continuous-Time Algorithm for Constrained Optimization of Networked Eulerâ€“Lagrange Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 1034-1042.	3.7	19
34	Adaptive collision-free formation control for under-actuated spacecraft. Aerospace Science and Technology, 2018, 79, 223-232.	4.8	18
35	Distributed containment control for double-integrator dynamics: Algorithms and experiments. , 2010, , .		17
36	Continuous-time distributed Nash equilibrium seeking algorithms for non-cooperative constrained games. Automatica, 2021, 127, 109535.	5.0	17

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37	Boundary Constraints for Minimum Cost Control of Directed Networks. IEEE Transactions on Cybernetics, 2017, 47, 4196-4207.	9.5	16
38	Online Temporal Calibration Based on Modified Projection Model for Visual-Inertial Odometry. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5197-5207.	4.7	15
39	Visual SLAM With Drift-Free Rotation Estimation in Manhattan World. IEEE Robotics and Automation Letters, 2020, 5, 6512-6519.	5.1	14
40	Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5174-5188.	9.3	13
41	Distributed hierarchical control for multiple vertical takeoff and landing UAVs with a distanceâ€based network topology. International Journal of Robust and Nonlinear Control, 2019, 29, 2573-2588.	3.7	12
42	Targeted Bipartite Consensus of Opinion Dynamics in Social Networks With Credibility Intervals. IEEE Transactions on Cybernetics, 2022, 52, 372-383.	9.5	11
43	Fully Distributed Event-Triggered Optimal Coordinated Control for Multiple Eulerâ€“Lagrangian Systems. IEEE Transactions on Cybernetics, 2022, 52, 9120-9131.	9.5	11
44	Rotation-matrix-based attitude synchronization of multiple spacecraft without velocity measurements. , 2017, , .		9
45	Stationary target localization and circumnavigation by a nonâ€holonomic differentially driven mobile robot: Algorithms and experiments. International Journal of Robust and Nonlinear Control, 2021, 31, 2061-2081.	3.7	9
46	Distributed continuousâ€time constrained convex optimization with general timeâ€varying cost functions. International Journal of Robust and Nonlinear Control, 2021, 31, 2222-2236.	3.7	9
47	Global Distributed Attitude Tracking Control of Multiple Rigid Bodies via Quaternion-Based Hybrid Feedback. IEEE Transactions on Control of Network Systems, 2021, 8, 367-378.	3.7	8
48	Distributed Nonlinear Placement for Multicluster Systems: A Time-Varying Nash Equilibrium-Seeking Approach. IEEE Transactions on Cybernetics, 2022, 52, 11614-11623.	9.5	8
49	A robust visual SLAM system in dynamic man-made environments. Science China Technological Sciences, 2020, 63, 1628-1636.	4.0	7
50	Efficient Probabilistic Approach to Range-Only SLAM With a Novel Likelihood Model. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	6
51	A Switching-Coupled Backend for Simultaneous Localization and Dynamic Object Tracking. IEEE Robotics and Automation Letters, 2021, 6, 1296-1303.	5.1	6
52	On 3-D Formation Control With Mismatched Coordinates. IEEE Transactions on Control of Network Systems, 2018, 5, 1492-1502.	3.7	5
53	Cooperative Set Aggregation of Second-Order Multiagent Systems: Approximate Projection and Prescribed Performance. IEEE Transactions on Cybernetics, 2020, 50, 957-970.	9.5	5
54	Velocityâ€free coordinated attitude synchronisation and tracking control of multiple spacecraft. IET Control Theory and Applications, 2020, 14, 461-469.	2.1	5

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55	Distributed economic dispatch for power generation with timeâ€varying loads and external disturbances. IET Control Theory and Applications, 2021, 15, 88-95.	2.1	5
56	A SINS/SAR/GPS Fusion Positioning System Based on Sensor Credibility Evaluations. Remote Sensing, 2021, 13, 4463.	4.0	5
57	Distributed Optimization for Second-Order Discrete-Time Multiagent Systems With Set Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5629-5639.	11.3	5
58	Decentralized finite-time sliding mode estimators with applications to formation tracking. , 2010, , .		4
59	Leader-follower formation control of multiple vertical takeoff and landing UAVs: Distributed estimator design and accurate trajectory tracking. , 2017, , .		4
60	Optimization on matrix manifold based on gradient information and its applications in network control. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 481-500.	2.6	4
61	Distributed Nonlinear Placement for a Class of Multicluster Eulerâ€“Lagrange Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6418-6425.	9.3	4
62	Distributed Time-Varying Economic Dispatch via a Prediction-Correction Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4215-4224.	5.4	4
63	Distributed quadratic optimisation for linear multiâ€agent systems over jointly connected networks. IET Control Theory and Applications, 2019, 13, 2811-2816.	2.1	3
64	Finite-Time Distributed Set-Point Attitude Tracking Control of Multi-Spacecraft Using Relative Measurements. , 2020, , .		3
65	Visual Localization and Mapping Leveraging the Constraints of Local Ground Manifolds. IEEE Robotics and Automation Letters, 2022, 7, 4196-4203.	5.1	3
66	Consensus of cooperativeâ€“antagonistic multi-agent networks with asynchronous three-option decision mechanism. Automatica, 2022, 140, 110258.	5.0	2
67	Attitude Maneuver and Stability Control of Hyper-Agile Satellite Using Reconfigurable Control Moment Gyros. Aerospace, 2022, 9, 303.	2.2	2
68	Point Cloud Registration Leveraging Structural Regularity in Manhattan World. IEEE Robotics and Automation Letters, 2022, 7, 7888-7895.	5.1	1
69	Modulus Consensus. Systems and Control: Foundations and Applications, 2021, , 71-82.	0.3	0