

Xiangke Wang

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.

56

papers

678

citations

16

h-index

24

g-index

66

ext. papers

974

ext. citations

3.3

avg, IF

4.83

L-index

#	Paper	IF	Citations
56	Implementation of UAV Coordination Based on a Hierarchical Multi-UAV Simulation Platform. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 5131-5143	0.2	1
55	Survivable Networks for Consensus. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	
54	A Novel Fixed-Time Sliding Mode Control of Quadrotor With Experiments and Comparisons 2022 , 6, 770-775		3
53	From Demonstration to Flight: Realization of Autonomous Aerobatic Maneuvers for Fast, Miniature Fixed-Wing UAVs. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5771-5778	4.2	0
52	Robust fixed-time sliding mode attitude control of tilt tri-rotor UAV in Helicopter mode. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
51	Distributed Control for Coordinated Tracking of Fixed-Wing Unmanned Aerial Vehicles under Model Uncertainty and Disturbances. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9830	2.6	2
50	Formation Reconfiguration for Fixed-Wing UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 102, 1	2.9	2
49	Coordinated path following control of fixed-wing unmanned aerial vehicles in wind. <i>ISA Transactions</i> , 2021 ,	5.5	2
48	Formation flight of fixed-wing UAV swarms: A group-based hierarchical approach. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 504-515	3.7	16
47	Distributed sliding mode control for leader-follower formation flight of fixed-wing unmanned aerial vehicles subject to velocity constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 2110-2125	3.6	11
46	Immersion and Invariance-based Sliding Mode Attitude Control of Tilt Tri-rotor UAV in Helicopter Mode. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 722-735	2.9	3
45	Rethinking the Mathematical Framework and Optimality of Set-Membership Filtering. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	
44	Coordinated Path-Following Control of Fixed-Wing Unmanned Aerial Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-15	7.3	11
43	Image-Based Visual Servo Tracking Control of a Ground Moving Target for a Fixed-Wing Unmanned Aerial Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 102, 1	2.9	3
42	Robust H2 Consensus for Multi-Agent Systems with Parametric Uncertainties. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	4
41	Cooperative Path Following Control of Fixed-wing Unmanned Aerial Vehicles with Collision Avoidance. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 100, 1569-1581	2.9	13
40	Cross-Drone Binocular Coordination for Ground Moving Target Tracking in Occlusion-Rich Scenarios. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 3161-3168	4.2	2

39	A Hierarchical Collision Avoidance Architecture for Multiple Fixed-Wing UAVs in an Integrated Airspace. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2477-2482	0.7	5
38	Cooperative Output Regulation of Heterogeneous Multi-Agent Systems With Adaptive Edge-Event-Triggered Strategies. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 2199-2203	3.5	16
37	A Nonlinear Robust Sliding Mode Controller with Auxiliary Dynamic System for the Hovering Flight of a Tilt Tri-Rotor UAV. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6551	2.6	3
36	Design and Implementation of a Hardware-in-the-Loop Simulation System for a Tilt Trirotor UAV. <i>Journal of Advanced Transportation</i> , 2020 , 2020, 1-17	1.9	2
35	Standard Formation Generation and Keeping of Unmanned Aerial Vehicles Through a Potential Functional Approach 2020 ,		1
34	Simulation verification of Flight Control of a tilt tri-rotor UAV Using X-plane 2020 ,		2
33	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-15	7.3	11
32	Convergence Analysis of Signed Nonlinear Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 189-200	4	6
31	Scalability Analysis of Algebraic Graph-Based Multi-UAVs Formation Control. <i>IEEE Access</i> , 2019 , 7, 1297193-129783	3.4	33
30	Leader-Follower Formation Control of Unmanned Aerial Vehicles Based on Active Disturbances Rejection Control 2019 ,		2
29	Coordinated flight control of miniature fixed-wing UAV swarms: methods and experiments. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	33
28	Systemic design of distributed multi-UAV cooperative decision-making for multi-target tracking. <i>Autonomous Agents and Multi-Agent Systems</i> , 2019 , 33, 132-158	2	17
27	An Optimized Image-Based Visual Servo Control for Fixed-Wing Unmanned Aerial Vehicle Target Tracking With Fixed Camera. <i>IEEE Access</i> , 2019 , 7, 68455-68468	3.5	6
26	Feature Selective Projection with Low-Rank Embedding and Dual Laplacian Regularization. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019 , 1-1	4.2	24
25	Bearing-only circumnavigation control of the multi-agent system around a moving target. <i>IET Control Theory and Applications</i> , 2019 , 13, 2747-2757	2.5	8
24	A Novel Collision Avoidance Method for Multiple Fixed-wing Unmanned Aerial Vehicles 2019 ,		1
23	2019 ,		3
22	Event-Triggered Consensus of Homogeneous and Heterogeneous Multiagent Systems With Jointly Connected Switching Topologies. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 4421-4430	10.2	48

21	Vector Field Based Sliding Mode Control of Curved Path Following for Miniature Unmanned Aerial Vehicles in Winds. <i>Journal of Systems Science and Complexity</i> , 2018 , 31, 302-324	1	9
20	Curved Path Following Control for Fixed-wing Unmanned Aerial Vehicles with Control Constraint. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 89, 107-119	2.9	20
19	Information geometry-based action decision-making for target tracking by fixed-wing unmanned aerial vehicle: From algorithm design to theory analysis. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141878706	1.4	3
18	A liquid sphere-inspired physicomimetics approach for multiagent formation control. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4565	3.6	1
17	Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 1-8	7.3	16
16	Model-Free Fuzzy Adaptive Control of the Heading Angle of Fixed-Wing Unmanned Aerial Vehicles. <i>Journal of Aerospace Engineering</i> , 2017 , 30, 04017019	1.4	5
15	Event-triggered encirclement control of multi-agent systems with bearing rigidity. <i>Science China Information Sciences</i> , 2017 , 60, 1	3.4	9
14	Digraph-based anti-communication-destroying topology design for multi-UAV formation 2017 ,		2
13	Distributed encirclement control with arbitrary spacing for multiple anonymous mobile robots 2017 ,		4
12	Edge agreement of multi-agent system with quantised measurements via the directed edge Laplacian. <i>IET Control Theory and Applications</i> , 2016 , 10, 1583-1589	2.5	13
11	Convergence analysis using the edge Laplacian: Robust consensus of nonlinear multi-agent systems via ISS method. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1051-1072	3.6	24
10	Multi-agent distributed coordination control: Developments and directions via graph viewpoint. <i>Neurocomputing</i> , 2016 , 199, 204-218	5.4	56
9	On the Comparisons of Unit Dual Quaternion and Homogeneous Transformation Matrix. <i>Advances in Applied Clifford Algebras</i> , 2014 , 24, 213-229	1	27
8	ISS method for coordination control of nonlinear dynamical agents under directed topology. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1832-45	10.2	26
7	Vision-Based Detection and Tracking of a Mobile Ground Target Using a Fixed-Wing UAV. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 156	1.4	19
6	Unit dual quaternion-based feedback linearization tracking problem for attitude and position dynamics. <i>Systems and Control Letters</i> , 2013 , 62, 225-233	2.4	44
5	The geometric structure of unit dual quaternion with application in kinematic control. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 389, 1352-1364	1.1	38
4	A Dual Quaternion Solution to Attitude and Position Control for Rigid-Body Coordination. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1162-1170	6.5	60

3	Feedback linearization regulator with coupled attitude and translation dynamics based on unit dual quaternion 2010 ,		20
2	Dual-Quaternion-Based Variable Structure Control: A New Approach and Application. <i>Lecture Notes in Computer Science</i> , 2010 , 75-86	0.9	3
1	Affine formation tracking control of unmanned aerial vehicles. <i>Frontiers of Information Technology and Electronic Engineering</i> ,1	2.2	0