Xiangke Wang

List of Publications by Citations

56	678	16	24
papers	citations	h-index	g-index
66	974	3.3	4.83
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
56	A Dual Quaternion Solution to Attitude and Position Control for Rigid-Body Coordination. *IEEE Transactions on Robotics*, **2012**, 28, 1162-1170	6.5	60
55	Multi-agent distributed coordination control: Developments and directions via graph viewpoint. *Neurocomputing*, **2016**, 199, 204-218	5.4	56
54	Event-Triggered Consensus of Homogeneous and Heterogeneous Multiagent Systems With Jointly Connected Switching Topologies. *IEEE Transactions on Cybernetics*, **2019**, 49, 4421-4430	10.2	48
53	Unit dual quaternion-based feedback linearization tracking problem for attitude and position dynamics. *Systems and Control Letters*, **2013**, 62, 225-233	2.4	44
52	The geometric structure of unit dual quaternion with application in kinematic control. *Journal of Mathematical Analysis and Applications*, **2012**, 389, 1352-1364	1.1	38
51	Coordinated flight control of miniature fixed-wing UAV swarms: methods and experiments. *Science China Information Sciences*, **2019**, 62, 1	3.4	33
50	On the Comparisons of Unit Dual Quaternion and Homogeneous Transformation Matrix. *Advances in Applied Clifford Algebras*, **2014**, 24, 213-229	1	27
49	ISS method for coordination control of nonlinear dynamical agents under directed topology. *IEEE Transactions on Cybernetics*, **2014**, 44, 1832-45	10.2	26
48	Feature Selective Projection with Low-Rank Embedding and Dual Laplacian Regularization. *IEEE Transactions on Knowledge and Data Engineering*, **2019**, 1-1	4.2	24
47	Convergence analysis using the edge Laplacian: Robust consensus of nonlinear multi-agent systems via ISS method. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 1051-1072	3.6	24
46	Curved Path Following Control for Fixed-wing Unmanned Aerial Vehicles with Control Constraint. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2018**, 89, 107-119	2.9	20
45	Feedback linearization regulator with coupled attitude and translation dynamics based on unit dual quaternion **2010**,		20
44	Vision-Based Detection and Tracking of a Mobile Ground Target Using a Fixed-Wing UAV. *International Journal of Advanced Robotic Systems*, **2014**, 11, 156	1.4	19
43	Systemic design of distributed multi-UAV cooperative decision-making for multi-target tracking. *Autonomous Agents and Multi-Agent Systems*, **2019**, 33, 132-158	2	17
42	Cooperative Output Regulation of Heterogeneous Multi-Agent Systems With Adaptive Edge-Event-Triggered Strategies. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 2199-2203	3.5	16
41	Formation flight of fixed-wing UAV swarms: A group-based hierarchical approach. *Chinese Journal of Aeronautics*, **2021**, 34, 504-515	3.7	16
40	Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 1-8	7.3	16

39	Cooperative Path Following Control of Fixed-wing Unmanned Aerial Vehicles with Collision Avoidance. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2020**, 100, 1569-1581	2.9	13
38	Edge agreement of multi-agent system with quantised measurements via the directed edge Laplacian. *IET Control Theory and Applications*, **2016**, 10, 1583-1589	2.5	13
37	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-15	7.3	11
36	Distributed sliding mode control for leader-follower formation flight of fixed-wing unmanned aerial vehicles subject to velocity constraints. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 2110-2125	3.6	11
35	Coordinated Path-Following Control of Fixed-Wing Unmanned Aerial Vehicles. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-15	7.3	11
34	Event-triggered encirclement control of multi-agent systems with bearing rigidity. *Science China Information Sciences*, **2017**, 60, 1	3.4	9
33	Vector Field Based Sliding Mode Control of Curved Path Following for Miniature Unmanned Aerial Vehicles in Winds. *Journal of Systems Science and Complexity*, **2018**, 31, 302-324	1	9
32	Bearing-only circumnavigation control of the multi-agent system around a moving target. *IET Control Theory and Applications*, **2019**, 13, 2747-2757	2.5	8
31	Robust fixed-time sliding mode attitude control of tilt tri-rotor UAV in Helicopter mode. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	7
30	Scalability Analysis of Algebraic Graph-Based Multi-UAVs Formation Control. *IEEE Access*, **2019**, 7, 129719-129733	3.9	7
29	An Optimized Image-Based Visual Servo Control for Fixed-Wing Unmanned Aerial Vehicle Target Tracking With Fixed Camera. *IEEE Access*, **2019**, 7, 68455-68468	3.5	6
28	Convergence Analysis of Signed Nonlinear Networks. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 189-200	4	6
27	Model-Free Fuzzy Adaptive Control of the Heading Angle of Fixed-Wing Unmanned Aerial Vehicles. *Journal of Aerospace Engineering*, **2017**, 30, 04017019	1.4	5
26	A Hierarchical Collision Avoidance Architecture for Multiple Fixed-Wing UAVs in an Integrated Airspace. *IFAC-PapersOnLine*, **2020**, 53, 2477-2482	0.7	5
25	Distributed encirclement control with arbitrary spacing for multiple anonymous mobile robots **2017**,		4
24	Robust H2 Consensus for Multi-Agent Systems with Parametric Uncertainties. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	4
23	Dual-Quaternion-Based Variable Structure Control: A New Approach and Application. *Lecture Notes in Computer Science*, **2010**, 75-86	0.9	3
22	A Nonlinear Robust Sliding Mode Controller with Auxiliary Dynamic System for the Hovering Flight of a Tilt Tri-Rotor UAV. *Applied Sciences (Switzerland)*, **2020**, 10, 6551	2.6	3

21	**2019**,		3
20	Immersion and Invariance-based Sliding Mode Attitude Control of Tilt Tri-rotor UAV in Helicopter Mode. *International Journal of Control, Automation and Systems*, **2021**, 19, 722-735	2.9	3
19	Information geometry-based action decision-making for target tracking by fixed-wing unmanned aerial vehicle: From algorithm design to theory analysis. *International Journal of Advanced Robotic Systems*, **2018**, 15, 172988141878706	1.4	3
18	Image-Based Visual Servo Tracking Control of a Ground Moving Target for a Fixed-Wing Unmanned Aerial Vehicle. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2021**, 102, 1	2.9	3
17	A Novel Fixed-Time Sliding Mode Control of Quadrotor With Experiments and Comparisons **2022**, 6, 770-775		3
16	Leader-Follower Formation Control of Unmanned Aerial Vehicles Based on Active Disturbances Rejection Control **2019**,		2
15	Cross-Drone Binocular Coordination for Ground Moving Target Tracking in Occlusion-Rich Scenarios. *IEEE Robotics and Automation Letters*, **2020**, 5, 3161-3168	4.2	2
14	Digraph-based anti-communication-destroying topology design for multi-UAV formation **2017**,		2
13	Distributed Control for Coordinated Tracking of Fixed-Wing Unmanned Aerial Vehicles under Model Uncertainty and Disturbances. *Applied Sciences (Switzerland)*, **2021**, 11, 9830	2.6	2
12	Design and Implementation of a Hardware-in-the-Loop Simulation System for a Tilt Trirotor UAV. *Journal of Advanced Transportation*, **2020**, 2020, 1-17	1.9	2
11	Simulation verification of Flight Control of a tilt tri-rotor UAV Using X-plane **2020**,		2
10	Formation Reconfiguration for Fixed-Wing UAVs. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2021**, 102, 1	2.9	2
9	Coordinated path following control of fixed-wing unmanned aerial vehicles in wind. *ISA Transactions*, **2021**,	5.5	2
8	Implementation of UAV Coordination Based on a Hierarchical Multi-UAV Simulation Platform. *Lecture Notes in Electrical Engineering*, **2022**, 5131-5143	0.2	1
7	Standard Formation Generation and Keeping of Unmanned Aerial Vehicles Through a Potential Functional Approach **2020**,		1
6	A Novel Collision Avoidance Method for Multiple Fixed-wing Unmanned Aerial Vehicles **2019**,		1
5	A liquid sphere-inspired physicomimetics approach for multiagent formation control. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 4565	3.6	1
4	Affine formation tracking control of unmanned aerial vehicles. *Frontiers of Information Technology and Electronic Engineering*,1	2.2	0

3	From Demonstration to Flight: Realization of Autonomous Aerobatic Maneuvers for Fast, Miniature Fixed-Wing UAVs. *IEEE Robotics and Automation Letters*, **2022**, 7, 5771-5778	4.2	0
2	Survivable Networks for Consensus. *IEEE Transactions on Control of Network Systems*, **2022**, 1-1	4	
1	Rethinking the Mathematical Framework and Optimality of Set-Membership Filtering. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	