

Jun-Yan Hu

List of Publications by Year in descending order

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24
papers

961
citations

567281

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times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Voronoi-Based Multi-Robot Autonomous Exploration in Unknown Environments via Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 14413-14423.	6.3	190
2	Cooperative Control of Heterogeneous Connected Vehicle Platoons: An Adaptive Leader-Following Approach. IEEE Robotics and Automation Letters, 2020, 5, 977-984.	5.1	124
3	Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. IEEE Transactions on Control of Network Systems, 2020, 7, 140-150.	3.7	108
4	Distributed Finite-Time Consensus Control for Heterogeneous Battery Energy Storage Systems in Droop-Controlled Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 4751-4761.	9.0	59
5	A consensus-based robust secondary voltage and frequency control scheme for islanded microgrids. International Journal of Electrical Power and Energy Systems, 2020, 116, 105575.	5.5	59
6	Fault-tolerant cooperative navigation of networked UAV swarms for forest fire monitoring. Aerospace Science and Technology, 2022, 123, 107494.	4.8	57
7	An innovative tri-rotor drone and associated distributed aerial drone swarm control. Robotics and Autonomous Systems, 2018, 103, 162-174.	5.1	51
8	A Decentralized Cluster Formation Containment Framework for Multirobot Systems. IEEE Transactions on Robotics, 2021, 37, 1936-1955.	10.3	47
9	Group Coordinated Control of Networked Mobile Robots With Applications to Object Transportation. IEEE Transactions on Vehicular Technology, 2021, 70, 8269-8274.	6.3	39
10	Distributed Motion Planning for Safe Autonomous Vehicle Overtaking via Artificial Potential Field. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21531-21547.	8.0	36
11	Robust formation control for networked robotic systems using Negative Imaginary dynamics. Automatica, 2022, 140, 110235.	5.0	32
12	Finite-Time Bearing-Only Formation Tracking of Heterogeneous Mobile Robots With Collision Avoidance. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3316-3320.	3.0	28
13	Occlusion-Based Coordination Protocol Design for Autonomous Robotic Shepherding Tasks. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 126-135.	3.8	25
14	Two-layer distributed formation containment control strategy for linear swarm systems: Algorithm and experiments. International Journal of Robust and Nonlinear Control, 2020, 30, 6433-6453.	3.7	22
15	Robust Formation Coordination of Robot Swarms With Nonlinear Dynamics and Unknown Disturbances: Design and Experiments. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 114-118.	3.0	17
16	Hysteresis Modelling and Feedforward Control of Piezoelectric Actuator Based on Simplified Interval Type-2 Fuzzy System. Sensors, 2020, 20, 2587.	3.8	13
17	Cooperative Control of Integrator Negative Imaginary Systems with Application to Rendezvous Multiple Mobile Robots. , 2019, , .		12
18	Self-Organised Collision-Free Flocking Mechanism in Heterogeneous Robot Swarms. Mobile Networks and Applications, 2021, 26, 2461-2471.	3.3	12

#	ARTICLE	IF	CITATIONS
19	SDP-Based Robust Formation-Containment Coordination of Swarm Robotic Systems with Input Saturation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	10
20	Cooperative Adaptive Time-Varying Formation Tracking for Multi-Agent Systems with LQR Performance Index and Switching Directed Topologies. , 2018, , .		8
21	Cooperative Control of Innovative Tri-Rotor Drones Using Robust Feedback Linearization. , 2018, , .		5
22	Omnipotent Virtual Giant for Remote Human-“Swarm Interaction. , 2021, , .		3
23	Collaborative Coverage for a Network of Vacuum Cleaner Robots. Lecture Notes in Computer Science, 2021, , 112-115.	1.3	2
24	Collaborative Overtaking of Multi-Vehicle Systems in Dynamic Environments: A Distributed Artificial Potential Field Approach. , 2021, , .		2