Hailong Huang

List of Publications by Year
in descending order

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Version: 2024-02-01

88	1,739	257101 24	301761 39
papers	citations	h-index	g-index

89	89	89	1082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deployment of Unmanned Aerial Vehicle Base Stations for Optimal Quality of Coverage. IEEE Wireless Communications Letters, 2019, 8, 321-324.	3.2	111
2	Mobile robots in wireless sensor networks: A survey on tasks. Computer Networks, 2019, 148, 1-19.	3.2	78
3	A Method for Optimized Deployment of a Network of Surveillance Aerial Drones. IEEE Systems Journal, 2019, 13, 4474-4477.	2.9	77
4	An Algorithm of Reactive Collision Free 3-D Deployment of Networked Unmanned Aerial Vehicles for Surveillance and Monitoring. IEEE Transactions on Industrial Informatics, 2020, 16, 132-140.	7.2	76
5	Reliable Path Planning for Drone Delivery Using a Stochastic Time-Dependent Public Transportation Network. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4941-4950.	4.7	71
6	A Method for Optimized Deployment of Unmanned Aerial Vehicles for Maximum Coverage and Minimum Interference in Cellular Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 2638-2647.	7.2	66
7	Towards the Internet of Flying Robots: A Survey. Sensors, 2018, 18, 4038.	2.1	52
8	Personalized Trajectory Planning and Control of Lane-Change Maneuvers for Autonomous Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 5511-5523.	3.9	48
9	Decentralized Autonomous Navigation of a UAV Network for Road Traffic Monitoring. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2558-2564.	2.6	46
10	Viable path planning for data collection robots in a sensing field with obstacles. Computer Communications, 2017, 111, 84-96.	3.1	45
11	A Method of Optimized Deployment of Charging Stations for Drone Delivery. IEEE Transactions on Transportation Electrification, 2020, 6, 510-518.	5.3	45
12	An energy efficient approach for data collection in wireless sensor networks using public transportation vehicles. AEU - International Journal of Electronics and Communications, 2017, 75, 108-118.	1.7	44
13	Fault tolerant steer-by-wire systems: An overview. Annual Reviews in Control, 2019, 47, 98-111.	4.4	44
14	Proactive Deployment of Aerial Drones for Coverage over Very Uneven Terrains: A Version of the 3D Art Gallery Problem. Sensors, 2019, 19, 1438.	2.1	43
15	An Algorithm of Efficient Proactive Placement of Autonomous Drones for Maximum Coverage in Cellular Networks. IEEE Wireless Communications Letters, 2018, 7, 994-997.	3.2	42
16	Asymptotically Optimal Deployment of Drones for Surveillance and Monitoring. Sensors, 2019, 19, 2068.	2.1	42
17	Round Trip Routing for Energy-Efficient Drone Delivery Based on a Public Transportation Network. IEEE Transactions on Transportation Electrification, 2020, 6, 1368-1376.	5.3	39
18	Securing UAV Communication in the Presence of Stationary or Mobile Eavesdroppers via Online 3D Trajectory Planning. IEEE Wireless Communications Letters, 2020, 9, 1211-1215.	3.2	37

#	Article	IF	Citations
19	Deployment of Heterogeneous UAV Base Stations for Optimal Quality of Coverage. IEEE Internet of Things Journal, 2022, 9, 16429-16437.	5.5	33
20	Shared control of highly automated vehicles using steer-by-wire systems. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 410-423.	8.5	32
21	Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. IEEE Systems Journal, 2020, 14, 4746-4749.	2.9	32
22	Optimal Aircraft Planar Navigation in Static Threat Environments. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2413-2426.	2.6	31
23	Drone Routing in a Time-Dependent Network: Toward Low-Cost and Large-Range Parcel Delivery. IEEE Transactions on Industrial Informatics, 2021, 17, 1526-1534.	7.2	31
24	Optimized deployment of drone base station to improve user experience in cellular networks. Journal of Network and Computer Applications, 2019, 144, 49-58.	5.8	25
25	Reactive 3D deployment of a flying robotic network for surveillance of mobile targets. Computer Networks, 2019, 161, 172-182.	3.2	25
26	Online UAV Trajectory Planning for Covert Video Surveillance of Mobile Targets. IEEE Transactions on Automation Science and Engineering, 2022, 19, 735-746.	3.4	25
27	Scheduling of a Parcel Delivery System Consisting of an Aerial Drone Interacting with Public Transportation Vehicles. Sensors, 2020, 20, 2045.	2.1	24
28	Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4606-4610.	5.9	24
29	Navigation of a UAV Network for Optimal Surveillance of a Group of Ground Targets Moving Along a Road. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9281-9285.	4.7	24
30	A New Parcel Delivery System with Drones and a Public Train. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1341-1354.	2.0	22
31	Robotic Herding of Farm Animals Using a Network of Barking Aerial Drones. Drones, 2022, 6, 29.	2.7	22
32	Sensor-Network-Based Navigation of a Mobile Robot for Extremum Seeking Using a Topology Map. IEEE Transactions on Industrial Informatics, 2019, 15, 3962-3972.	7.2	21
33	Energy-Efficient 3D Navigation of a Solar-Powered UAV for Secure Communication in the Presence of Eavesdroppers and No-Fly Zones. Energies, 2020, 13, 1445.	1.6	21
34	Reactive Autonomous Navigation of UAVs for Dynamic Sensing Coverage of Mobile Ground Targets. Sensors, 2020, 20, 3720.	2.1	19
35	I-UMDPC: The Improved-Unusual Message Delivery Path Construction for Wireless Sensor Networks With Mobile Sinks. IEEE Internet of Things Journal, 2017, 4, 1528-1536.	5.5	18
36	Occlusion-Aware UAV Path Planning for Reconnaissance and Surveillance. Drones, 2021, 5, 98.	2.7	18

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37	Navigating UAVs for Optimal Monitoring of Groups of Moving Pedestrians or Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 3891-3896.	3.9	17
38	Bioinspired Bearing Only Motion Camouflage UAV Guidance for Covert Video Surveillance of a Moving Target. IEEE Systems Journal, 2021, 15, 5379-5382.	2.9	16
39	Energy-efficient decentralized navigation of a team of solar-powered UAVs for collaborative eavesdropping on a mobile ground target in urban environments. Ad Hoc Networks, 2021, 117, 102485.	3.4	16
40	The cluster based compressive data collection for wireless sensor networks with a mobile sink. AEU - International Journal of Electronics and Communications, 2019, 108, 206-214.	1.7	15
41	Human-Machine Cooperative Trajectory Planning and Tracking for Safe Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12050-12063.	4.7	14
42	Optimal path planning for a vehicle collecting data in a Wireless Sensor Network. , 2016, , .		13
43	Navigation of a UAV Team for Collaborative Eavesdropping on Multiple Ground Transmitters. IEEE Transactions on Vehicular Technology, 2021, 70, 10450-10460.	3.9	12
44	Deployment of Charging Stations for Drone Delivery Assisted by Public Transportation Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15043-15054.	4.7	12
45	Observerâ€based robust preview tracking control for a class of nonâ€linear systems. IET Control Theory and Applications, 2020, 14, 991-998.	1.2	10
46	Actuator fault tolerant control for steer-by-wire systems. International Journal of Control, 2021, 94, 3123-3134.	1.2	10
47	Review on human-machine shared control system of automated vehicles. , 2019, , .		9
48	When Drones Take Public Transport: Towards Low Cost and Large Range Parcel Delivery. , 2019, , .		9
49	Asymptotically Optimal Path Planning for Ground Surveillance by a Team of UAVs. IEEE Systems Journal, 2022, 16, 3446-3449.	2.9	9
50	A method for deploying the minimal number of UAV base stations in cellular networks. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 559-567.	8.5	8
51	Energy-Efficient Autonomous Navigation of Solar-Powered UAVs for Surveillance of Mobile Ground Targets in Urban Environments. Energies, 2020, 13, 5563.	1.6	8
52	A Novel Method for Protecting Swimmers and Surfers From Shark Attacks Using Communicating Autonomous Drones. IEEE Internet of Things Journal, 2020, 7, 9884-9894.	5.5	8
53	A 3D Vision Cone Based Method for Collision Free Navigation of a Quadcopter UAV among Moving Obstacles. Drones, 2021, 5, 134.	2.7	8
54	Control of a Novel Parcel Delivery System Consisting of a UAV and a Public Train. , 2019, , .		7

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55	A Method for Covert Video Surveillance of a Car or a Pedestrian by an Autonomous Aerial Drone via Trajectory Planning. , 2020, , .		7
56	Autonomous Navigation of a Solar-Powered UAV for Secure Communication in Urban Environments with Eavesdropping Avoidance. Future Internet, 2020, 12, 170.	2.4	7
57	Aerial Surveillance in Cities: When UAVs Take Public Transportation Vehicles. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1069-1080.	3.4	7
58	Path planning algorithms for a mobile robot collecting data in a wireless sensor network deployed in a region with obstacles. , 2016, , .		6
59	Path Planning for a Solar-Powered UAV Inspecting Mountain Sites for Safety and Rescue. Energies, 2021, 14, 1968.	1.6	6
60	Wise Information Technology of Med: Human Pose Recognition in Elderly Care. Sensors, 2021, 21, 7130.	2.1	6
61	The problem of minimum risk path planning for flying robots in dangerous environments. , 2016, , .		5
62	Optimal Deployment of Charging Stations for Aerial Surveillance by UAVs with the Assistance of Public Transportation Vehicles. Sensors, 2021, 21, 5320.	2.1	5
63	Decentralized Navigation of a UAV Team for Collaborative Covert Eavesdropping on a Group of Mobile Ground Nodes. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3932-3941.	3.4	5
64	Autonomous Navigation of an Aerial Drone to Observe a Group of Wild Animals With Reduced Visual Disturbance. IEEE Systems Journal, 2022, 16, 3339-3348.	2.9	5
65	On the Problem of Flying Robots Deployment to Improve Cellular User Experience. , 2018, , .		4
66	Optimal Control of a Hybrid UAV/Train Parcel Delivery System. , 2019, , .		4
67	Autonomous Guidance of an Aerial Drone for Maintaining an Effective Wireless Communication Link with a Moving Node Using an Intelligent Reflecting Surface. , 2022, , .		4
68	Reactive Deployment of Flying Robot Base Station over Disaster Areas. , 2018, , .		3
69	Data Collection in Nonuniformly Deployed Wireless Sensor Networks by Public Transportation Vehicles. , 2017, , .		2
70	A Convolutional Neural Network Method for Self-Driving Cars. , 2020, , .		2
71	Surveillance of Remote Targets by UAVs. , 2021, , .		2
72	Delay-aware data collection in wireless sensor networks with mobile nodes. , 2017, , .		1

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73	Disturbance observer based generalized wind/solar/battery consistent control strategy for <scp>AC</scp> microgrids. International Transactions on Electrical Energy Systems, 2021, 31, e12539.	1.2	1
74	Autonomous Drone Shark Shield: A Novel Shark Repelling System for Protecting Swimmers and Surfers. , 2020, , .		1
75	Use of A UAV Base Station for Searching and Bio-inspired Covert Video Surveillance of Tagged Wild Animals. , 2020, , .		1
76	Steering Angle Prediction for Autonomous Cars Based on Deep Neural Network Method*. , 2020, , .		1
77	Control of Flying Robots for Monitoring of Moving Objects. , 2019, , .		0
78	LMI-based Nonlinear State Observer for Vehicle Motion Tracking in Lane Change Manoeuvre. , 2020, , .		0
79	A Path Planning Method for Video Camera Equipped UAVs Monitoring a Ground Area. , 2021, , .		0
80	Optimized deployment of UAV base stations for providing wireless communication service in urban environments. , 2022, , 159-178.		0
81	Data collection in wireless sensor networks by ground robots with fixed trajectories. , 2022, , 83-101.		0
82	Wireless communication networks supported by autonomous UAVs: a survey. , 2022, , 37-55.		0
83	Data collection in wireless sensor networks by ground robots with full freedom. , 2022, , 57-81.		0
84	Energy-efficient path planning of a solar-powered UAV for secure communication in the presence of eavesdroppers and no-fly zones. , 2022, , 103-117.		0
85	Multiobjective path planning of a solar-powered UAV for secure communication in urban environments with eavesdropping avoidance. , 2022, , 119-137.		0
86	Survey of approaches for wireless communication networks supported by ground robots. , 2022, , 9-36.		0
87	Reactive deployment of UAV base stations for providing wireless communication services. , 2022, , 139-157.		0
88	Energy-efficient path planning of solar-powered UAVs for communicating with mobile ground users in urban environments. , 2022, , 179-198.		0