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	Aerial Surveillance in Cities: When UAVs Take Public Transportation Vehicles. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1069-1080.	3.4	7
2	Human-Machine Cooperative Trajectory Planning and Tracking for Safe Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12050-12063.	4.7	14
3	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
4	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
5	Asymptotically Optimal Path Planning for Ground Surveillance by a Team of UAVs. IEEE Systems Journal, 2022, 16, 3446-3449.	2.9	9
6	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
7	Robotic Herding of Farm Animals Using a Network of Barking Aerial Drones. Drones, 2022, 6, 29.	2.7	22
8	Optimized deployment of UAV base stations for providing wireless communication service in urban environments. , 2022, , 159-178.		0
9	Data collection in wireless sensor networks by ground robots with fixed trajectories. , 2022, , 83-101.		0
10	Wireless communication networks supported by autonomous UAVs: a survey. , 2022, , 37-55.		0
11	Data collection in wireless sensor networks by ground robots with full freedom. , 2022, , 57-81.		0
12	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
13	Multiobjective path planning of a solar-powered UAV for secure communication in urban environments with eavesdropping avoidance. , 2022, , 119-137.		0
14	Survey of approaches for wireless communication networks supported by ground robots. , 2022, , 9-36.		0
15	Reactive deployment of UAV base stations for providing wireless communication services. , 2022, , 139-157.		0
16	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
17	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
18	Energy-efficient path planning of solar-powered UAVs for communicating with mobile ground users in urban environments. , 2022, , 179-198.		0

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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	Autonomous Guidance of an Aerial Drone for Maintaining an Effective Wireless Communication Link with a Moving Node Using an Intelligent Reflecting Surface. , 2022, , .		4
21	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
22	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
23	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
24	Actuator fault tolerant control for steer-by-wire systems. International Journal of Control, 2021, 94, 3123-3134.	1.2	10
25	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
26	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
27	Path Planning for a Solar-Powered UAV Inspecting Mountain Sites for Safety and Rescue. Energies, 2021, 14, 1968.	1.6	6
28	Navigating UAVs for Optimal Monitoring of Groups of Moving Pedestrians or Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 3891-3896.	3.9	17
29	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
30	Personalized Trajectory Planning and Control of Lane-Change Maneuvers for Autonomous Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 5511-5523.	3.9	48
31	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
32	Optimal Deployment of Charging Stations for Aerial Surveillance by UAVs with the Assistance of Public Transportation Vehicles. Sensors, 2021, 21, 5320.	2.1	5
33	Occlusion-Aware UAV Path Planning for Reconnaissance and Surveillance. Drones, 2021, 5, 98.	2.7	18
34	Navigation of a UAV Team for Collaborative Eavesdropping on Multiple Ground Transmitters. IEEE Transactions on Vehicular Technology, 2021, 70, 10450-10460.	3.9	12
35	Wise Information Technology of Med: Human Pose Recognition in Elderly Care. Sensors, 2021, 21, 7130.	2.1	6
36	A 3D Vision Cone Based Method for Collision Free Navigation of a Quadcopter UAV among Moving Obstacles. Drones, 2021, 5, 134.	2.7	8

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37	A Path Planning Method for Video Camera Equipped UAVs Monitoring a Ground Area. , 2021, , .		0
38	Surveillance of Remote Targets by UAVs. , 2021, , .		2
39	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
40	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
41	Reactive Autonomous Navigation of UAVs for Dynamic Sensing Coverage of Mobile Ground Targets. Sensors, 2020, 20, 3720.	2.1	19
42	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
43	A Method for Covert Video Surveillance of a Car or a Pedestrian by an Autonomous Aerial Drone via Trajectory Planning. , 2020, , .		7
44	Energy-Efficient Autonomous Navigation of Solar-Powered UAVs for Surveillance of Mobile Ground Targets in Urban Environments. Energies, 2020, 13, 5563.	1.6	8
45	Autonomous Navigation of a Solar-Powered UAV for Secure Communication in Urban Environments with Eavesdropping Avoidance. Future Internet, 2020, 12, 170.	2.4	7
46	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
47	Autonomous Drone Shark Shield: A Novel Shark Repelling System for Protecting Swimmers and Surfers. , 2020, , .		1
48	A Method of Optimized Deployment of Charging Stations for Drone Delivery. IEEE Transactions on Transportation Electrification, 2020, 6, 510-518.	5.3	45
49	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
50	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
51	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
52	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
53	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
54	Scheduling of a Parcel Delivery System Consisting of an Aerial Drone Interacting with Public Transportation Vehicles. Sensors, 2020, 20, 2045.	2.1	24

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55	LMI-based Nonlinear State Observer for Vehicle Motion Tracking in Lane Change Manoeuvre. , 2020, , .		0
56	Use of A UAV Base Station for Searching and Bio-inspired Covert Video Surveillance of Tagged Wild Animals. , 2020, , .		1
57	Steering Angle Prediction for Autonomous Cars Based on Deep Neural Network Method*. , 2020, , .		1
58	A Convolutional Neural Network Method for Self-Driving Cars. , 2020, , .		2
59	Review on human-machine shared control system of automated vehicles. , 2019, , .		9
60	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
61	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
62	Reactive 3D deployment of a flying robotic network for surveillance of mobile targets. Computer Networks, 2019, 161, 172-182.	3.2	25
63	Asymptotically Optimal Deployment of Drones for Surveillance and Monitoring. Sensors, 2019, 19, 2068.	2.1	42
64	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
65	A Method for Optimized Deployment of a Network of Surveillance Aerial Drones. IEEE Systems Journal, 2019, 13, 4474-4477.	2.9	77
66	Shared control of highly automated vehicles using steer-by-wire systems. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 410-423.	8.5	32
67	Fault tolerant steer-by-wire systems: An overview. Annual Reviews in Control, 2019, 47, 98-111.	4.4	44
68	Control of a Novel Parcel Delivery System Consisting of a UAV and a Public Train. , 2019, , .		7
69	When Drones Take Public Transport: Towards Low Cost and Large Range Parcel Delivery. , 2019, , .		9
70	Control of Flying Robots for Monitoring of Moving Objects. , 2019, , .		0
71	Optimal Control of a Hybrid UAV/Train Parcel Delivery System. , 2019, , .		4
72	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

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73	Mobile robots in wireless sensor networks: A survey on tasks. Computer Networks, 2019, 148, 1-19.	3.2	78
74	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
75	Deployment of Unmanned Aerial Vehicle Base Stations for Optimal Quality of Coverage. IEEE Wireless Communications Letters, 2019, 8, 321-324.	3.2	111
76	Reactive Deployment of Flying Robot Base Station over Disaster Areas. , 2018, , .		3
77	On the Problem of Flying Robots Deployment to Improve Cellular User Experience. , 2018, , .		4
78	Towards the Internet of Flying Robots: A Survey. Sensors, 2018, 18, 4038.	2.1	52
79	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
80	Optimal Aircraft Planar Navigation in Static Threat Environments. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2413-2426.	2.6	31
81	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
82	Delay-aware data collection in wireless sensor networks with mobile nodes. , 2017, , .		1
83	Viable path planning for data collection robots in a sensing field with obstacles. Computer Communications, 2017, 111, 84-96.	3.1	45
84	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
85	Data Collection in Nonuniformly Deployed Wireless Sensor Networks by Public Transportation Vehicles. , 2017, , .		2
86	The problem of minimum risk path planning for flying robots in dangerous environments. , 2016, , .		5
87	Path planning algorithms for a mobile robot collecting data in a wireless sensor network deployed in a region with obstacles. , 2016, , .		6
88	Optimal path planning for a vehicle collecting data in a Wireless Sensor Network. , 2016, , .		13