Qi Hao

List of Publications by Year
in descending order

102 papers	3,605 citations	236925 25 h-index	265206 42 g-index
102 all docs	102 docs citations	102 times ranked	3367 citing authors

#	Article	IF	Citations
1	Edge Federated Learning via Unit-Modulus Over-The-Air Computation. IEEE Transactions on Communications, 2022, 70, 3141-3156.	7.8	16
2	Phase-SLAM: Phase Based Simultaneous Localization and Mapping for Mobile Structured Light Illumination Systems. IEEE Robotics and Automation Letters, 2022, 7, 6203-6210.	5.1	1
3	Robotic Wireless Energy Transfer in Dynamic Environments: System Design and Experimental Validation. IEEE Communications Magazine, 2022, 60, 40-46.	6.1	4
4	Reinforcement Learned Distributed Multi-Robot Navigation With Reciprocal Velocity Obstacle Shaped Rewards. IEEE Robotics and Automation Letters, 2022, 7, 5896-5903.	5.1	36
5	Runtime Safety Assurance for Learning-enabled Control of Autonomous Driving Vehicles. , 2022, , .		4
6	JST: Joint Self-training for Unsupervised Domain Adaptation on 2D&3D Object Detection. , 2022, , .		2
7	A Template-Based 3D Reconstruction of Colon Structures and Textures From Stereo Colonoscopic Images. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 85-95.	3.2	15
8	Learning Centric Wireless Resource Allocation for Edge Computing: Algorithm and Experiment. IEEE Transactions on Vehicular Technology, 2021, 70, 1035-1040.	6.3	12
9	Distributed Dynamic Map Fusion via Federated Learning for Intelligent Networked Vehicles. , 2021, , .		30
10	CS-Fnet: A Compressive Sampling Frequency Neural Network for Simultaneous Image Compression and Recognition. , 2021, , .		0
11	Phase-SLAM: Mobile Structured Light Illumination for Full Body 3D Scanning. , 2021, , .		2
12	Compressive Detection for Camera Array Images. , 2021, , .		0
13	Unit-Modulus Wireless Federated Learning Via Penalty Alternating Minimization. , 2021, , .		1
14	Design, Implementation, and Evaluation of a Neural-Network-Based Quadcopter UAV System. IEEE Transactions on Industrial Electronics, 2020, 67, 2076-2085.	7.9	78
15	Development of UAV-Based Target Tracking and Recognition Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3409-3422.	8.0	63
16	Enabling Cognitive Pyroelectric Infrared Sensing: From Reconfigurable Signal Conditioning to Sensor Mask Design. IEEE Transactions on Industrial Informatics, 2020, 16, 4436-4446.	11.3	5
17	Learning Centric Power Allocation for Edge Intelligence. , 2020, , .		7
18	Angle Aware User Cooperation for Secure Massive MIMO in Rician Fading Channel. IEEE Journal on Selected Areas in Communications, 2020, 38, 2182-2196.	14.0	10

#	Article	IF	Citations
19	Cooperative Multi-Robot Navigation in Dynamic Environment with Deep Reinforcement Learning. , 2020, , .		26
20	Behavior and Interaction-aware Motion Planning for Autonomous Driving Vehicles based on Hierarchical Intention and Motion Prediction. , 2020, , .		3
21	Visual Perception Based Situation Analysis of Traffic Scenes for Autonomous Driving Applications. , 2020, , .		2
22	A Distributed Range-Only Collision Avoidance Approach for Low-cost Large-scale Multi-Robot Systems. , 2020, , .		5
23	SUSTech POINTS: A Portable 3D Point Cloud Interactive Annotation Platform System. , 2020, , .		20
24	A reinforced fuzzy ARTMAP model for data classification. International Journal of Machine Learning and Cybernetics, 2019, 10, 1643-1655.	3.6	19
25	Pavilion: Bridging Photo-Realism and Robotics. , 2019, , .		2
26	Feature selection based on brain storm optimization for data classification. Applied Soft Computing Journal, 2019, 80, 761-775.	7.2	68
27	Online Intelligent Calibration of Cameras and LiDARs for Autonomous Driving Systems. , 2019, , .		15
28	Autonomous Driving Framework for Bus Transit Systems Towards Operation Safety and Robustness. , 2019, , .		1
29	Space Coding Schemes for Multiple Human Localization With Fiber-Optic Sensors. IEEE Sensors Journal, 2018, 18, 4643-4653.	4.7	3
30	Anomaly Detection and Condition Monitoring of UAV Motors and Propellers. , 2018, , .		29
31	A Reinforcement Learning Based Design of Compressive Sensing Systems for Human Activity Recognition. , 2018, , .		2
32	Non-Intrusive Human Motion Recognition Using Distributed Sparse Sensors and the Genetic Algorithm Based Neural Network. , 2018, , .		13
33	Linear Bayesian Filter Based Low-Cost UWB Systems for Indoor Mobile Robot Localization. , 2018, , .		8
34	Deep Learning for Intelligent Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2595-2621.	39.4	508
35	Active Compressive Sensing via Pyroelectric Infrared Sensor for Human Situation Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 3340-3350.	9.3	26
36	Binary Compressive Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1755-1768.	4.7	10

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37	Development of a Smart Floor for Target Localization with Bayesian Binary Sensing. , 2017, , .		8
38	An integrated UAV navigation system based on geo-registered 3D point cloud. , 2017, , .		2
39	Smart microphone array design for speech enhancement in financial VR and AR. , 2017, , .		8
40	Design of compressive imaging masks for human activity perception based on binary convolutional neural network. , 2017, , .		1
41	Development of a virtual reality teleconference system using distributed depth sensors. , 2016, , .		3
42	Adaptive flight control for quadrotor UAVs with dynamic inversion and neural networks. , 2016, , .		8
43	Development of UAV based virtual reality systems. , 2016, , .		7
44	UAV based target tracking and recognition. , 2016, , .		7
45	Convolution neutral network enhanced binary sensor network for human activity recognition. , 2016, , .		15
46	Action synchronization between human and UAV robotic arms for remote operation. , 2016, , .		8
47	Cyberphysical System With Virtual Reality for Intelligent Motion Recognition and Training. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-17.	9.3	23
48	Preprocessing Design in Pyroelectric Infrared Sensor-Based Human-Tracking System: On Sensor Selection and Calibration. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-13.	9.3	31
49	Robust Cyber–Physical Systems: Concept, models, and implementation. Future Generation Computer Systems, 2016, 56, 449-475.	7.5	136
50	Dual-Resolution Friend Locator System With Privacy Enhancement Through Polygon Decomposition. IEEE Transactions on Vehicular Technology, 2016, 65, 837-847.	6.3	0
51	A Bayesian Approach for Targets Localization Using Binary Sensor Networks. , 2015, , .		7
52	Binary sensing and perception for human behavior study. , 2015, , .		0
53	Bluetooth low energy for wearable sensor-based healthcare systems. , 2014, , .		47
54	A Survey on Software-Defined Network and OpenFlow: From Concept to Implementation. IEEE Communications Surveys and Tutorials, 2014, 16, 2181-2206.	39.4	559

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55	Human Movement Modeling and Activity Perception Based on Fiber-Optic Sensing System. IEEE Transactions on Human-Machine Systems, 2014, 44, 743-754.	3.5	25
56	Mobile Target Scenario Recognition Via Low-Cost Pyroelectric Sensing System: Toward a Context-Enhanced Accurate Identification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 375-384.	9.3	42
57	Space encoding based human activity modeling and situation perception. , 2013, , .		5
58	Active sensing of indoor human scenarios through mobile pyroelectric infrared sensors. , 2013, , .		2
59	A wireless laser sensor web for human gait disorder recognition based on the Buffons needle model. , 2013, , .		0
60	Cognitive sensing for distributed behavioral biometrics. , 2013, , .		0
61	Multi-agent based wireless pyroelectric infrared sensor networks for multi-human tracking and self-calibration. , 2013, , .		11
62	A Multi-Agent-Based Intelligent Sensor and Actuator Network Design for Smart House and Home Automation. Journal of Sensor and Actuator Networks, 2013, 2, 557-588.	3.9	72
63	An integral and differential geometric approach to behavioral information acquisition and integration via binary sensor networks. , 2012, , .		3
64	Buffon's needle model based walker recognition with distributed binary sensor networks. , 2012, , .		7
65	A reconfigurable hardware platform for cognitive sensor networks towards behavioral biometrics. , 2012, , .		2
66	Space encoding based compressive multiple human tracking with distributed binary pyroelectric infrared sensor networks. , 2012, , .		14
67	Distributed binary geometric sensor arrays for low-data-throughput human gait biometrics. , 2012, , .		5
68	Robust Active Stereo Vision Using Kullback-Leibler Divergence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 548-563.	13.9	58
69	Period Coded Phase Shifting Strategy for Real–time 3-D Structured Light Illumination. IEEE Transactions on Image Processing, 2011, 20, 3001-3013.	9.8	77
70	Compressive neural activity detection with fMR images using Graphical Model Inference. International Journal of Computational Biology and Drug Design, 2010, 3, 187.	0.3	2
71	Multi-target tracking in distributed active sensor networks. , 2010, , .		5
72	Trustworthy Data Collection From Implantable Medical Devices Via High-Speed Security Implementation Based on IEEE 1363. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1397-1404.	3.2	16

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73	Quality and matching performance analysis of three-dimensional unraveled fingerprints. Optical Engineering, 2010, 49, 077202.	1.0	2
74	Mobile targets region-of-interest via distributed pyroelectric sensor network: Towards a robust, real-time context reasoning. , 2010, , .		4
75	Distributed multiple human tracking with wireless binary pyroelectric infrared (PIR) sensor networks. , 2010, , .		13
76	Dual-frequency pattern scheme for high-speed 3-D shape measurement. Optics Express, 2010, 18, 5229.	3.4	291
77	Gamma model and its analysis for phase measuring profilometry. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 553.	1.5	155
78	Maximum SNR pattern strategy for phase shifting methods in structured light illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1962.	1.5	30
79	A compressive eletroencephalography (EEG) sensor design. , 2010, , .		4
80	1-bit walker recognition with distributed binary pyroelectric sensors. , 2010, , .		8
81	Context awareness emergence for distributed binary pyroelectric sensors. , 2010, , .		11
82	Low-power electroencephalography sensing data RF transmission. , 2009, , .		7
83	Low-Power, Intelligent Sensor Hardware Interface for Medical Data Preprocessing. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 656-663.	3.2	92
84	Multiple Human Tracking and Identification With Wireless Distributed Pyroelectric Sensor Systems. IEEE Systems Journal, 2009, 3, 428-439.	4.6	110
85	A hybrid approach for compressive neural activity detection with functional MR images. , 2009, 2009, 4787-90.		0
86	Data acquisition and quality analysis of 3-dimensional fingerprints. , 2009, , .		13
87	Congestion-aware, loss-resilient bio-monitoring sensor networking for mobile health applications. IEEE Journal on Selected Areas in Communications, 2009, 27, 450-465.	14.0	123
88	Multiple human tracking with wireless distributed pyro-electric sensors. , 2008, , .		7
89	Multiple walker recognition using wireless distributed pyro-electric sensors. , 2008, , .		1
90	Multicamera phase measuring profilometry for accurate depth measurement. , 2007, , .		10

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91	A pyroelectric infrared biometric system for real-time walker recognition by use of a maximum likelihood principal components estimation (MLPCE) method. Optics Express, 2007, 15, 3271.	3.4	28
92	Human Tracking With Wireless Distributed Pyroelectric Sensors. IEEE Sensors Journal, 2006, 6, 1683-1696.	4.7	136
93	Path-dependent human identification using a pyroelectric infrared sensor and fresnel lens arrays. Optics Express, 2006, 14, 609.	3.4	65
94	Real-time human identification using a pyroelectric infrared detector array and hidden Markov models. Optics Express, 2006, 14, 6643.	3.4	61
95	Human-tracking systems using pyroelectric infrared detectors. Optical Engineering, 2006, 45, 106401.	1.0	113
96	A gradient-based track-following controller optimization for hard disk drive. IEEE Transactions on Industrial Electronics, 2003, 50, 108-115.	7.9	8
97	A dual-stage control design for high track per inch hard disk drives. IEEE Transactions on Magnetics, 2001, 37, 860-865.	2.1	35
98	A self-tuning robust track-following control of sampled-data hard disk drive servo-system. , 2001, , .		2
99	TMR online optimization using quasi-Newton method for HDD servo systems. , 2000, , .		6
100	A Genetic Algorithm with Tabu List and Sharing Scheme for Optimal Design of Electrical Machines. Electric Power Components and Systems, 1999, 27, 543-552.	0.1	3
101	An optimal multirate control design with robustness specification for sampled-data HDD servo systems. , 0, , .		5
102	Access system requirement for high track per inch hard disk drives. , 0, , .		0