

Qi Hao

List of Publications by Year in descending order

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Version: 2024-02-01

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	A Survey on Software-Defined Network and OpenFlow: From Concept to Implementation. IEEE Communications Surveys and Tutorials, 2014, 16, 2181-2206.	39.4	559
2	Deep Learning for Intelligent Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2595-2621.	39.4	508
3	Dual-frequency pattern scheme for high-speed 3-D shape measurement. Optics Express, 2010, 18, 5229.	3.4	291
4	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
5	Human Tracking With Wireless Distributed Pyroelectric Sensors. IEEE Sensors Journal, 2006, 6, 1683-1696.	4.7	136
6	Robust Cyber-Physical Systems: Concept, models, and implementation. Future Generation Computer Systems, 2016, 56, 449-475.	7.5	136
7	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
8	Human-tracking systems using pyroelectric infrared detectors. Optical Engineering, 2006, 45, 106401.	1.0	113
9	Multiple Human Tracking and Identification With Wireless Distributed Pyroelectric Sensor Systems. IEEE Systems Journal, 2009, 3, 428-439.	4.6	110
10	Low-Power, Intelligent Sensor Hardware Interface for Medical Data Preprocessing. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 656-663.	3.2	92
11	Design, Implementation, and Evaluation of a Neural-Network-Based Quadcopter UAV System. IEEE Transactions on Industrial Electronics, 2020, 67, 2076-2085.	7.9	78
12	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
13	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
14	Feature selection based on brain storm optimization for data classification. Applied Soft Computing Journal, 2019, 80, 761-775.	7.2	68
15	Path-dependent human identification using a pyroelectric infrared sensor and fresnel lens arrays. Optics Express, 2006, 14, 609.	3.4	65
16	Development of UAV-Based Target Tracking and Recognition Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3409-3422.	8.0	63
17	Real-time human identification using a pyroelectric infrared detector array and hidden Markov models. Optics Express, 2006, 14, 6643.	3.4	61
18	Robust Active Stereo Vision Using Kullback-Leibler Divergence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 548-563.	13.9	58

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19	Bluetooth low energy for wearable sensor-based healthcare systems. , 2014, , .		47
20	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
21	Reinforcement Learned Distributed Multi-Robot Navigation With Reciprocal Velocity Obstacle Shaped Rewards. IEEE Robotics and Automation Letters, 2022, 7, 5896-5903.	5.1	36
22	A dual-stage control design for high track per inch hard disk drives. IEEE Transactions on Magnetics, 2001, 37, 860-865.	2.1	35
23	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
24	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
25	Distributed Dynamic Map Fusion via Federated Learning for Intelligent Networked Vehicles. , 2021, , .		30
26	Anomaly Detection and Condition Monitoring of UAV Motors and Propellers. , 2018, , .		29
27	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
28	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
29	Cooperative Multi-Robot Navigation in Dynamic Environment with Deep Reinforcement Learning. , 2020, , .		26
30	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
31	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
32	SUSTech POINTS: A Portable 3D Point Cloud Interactive Annotation Platform System. , 2020, , .		20
33	A reinforced fuzzy ARTMAP model for data classification. International Journal of Machine Learning and Cybernetics, 2019, 10, 1643-1655.	3.6	19
34	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
35	Edge Federated Learning via Unit-Modulus Over-The-Air Computation. IEEE Transactions on Communications, 2022, 70, 3141-3156.	7.8	16
36	Convolution neutral network enhanced binary sensor network for human activity recognition. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
37	Online Intelligent Calibration of Cameras and LiDARs for Autonomous Driving Systems. , 2019, , .		15
38	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
39	Space encoding based compressive multiple human tracking with distributed binary pyroelectric infrared sensor networks. , 2012, , .		14
40	Data acquisition and quality analysis of 3-dimensional fingerprints. , 2009, , .		13
41	Distributed multiple human tracking with wireless binary pyroelectric infrared (PIR) sensor networks. , 2010, , .		13
42	Non-Intrusive Human Motion Recognition Using Distributed Sparse Sensors and the Genetic Algorithm Based Neural Network. , 2018, , .		13
43	Learning Centric Wireless Resource Allocation for Edge Computing: Algorithm and Experiment. IEEE Transactions on Vehicular Technology, 2021, 70, 1035-1040.	6.3	12
44	Context awareness emergence for distributed binary pyroelectric sensors. , 2010, , .		11
45	Multi-agent based wireless pyroelectric infrared sensor networks for multi-human tracking and self-calibration. , 2013, , .		11
46	Multicamera phase measuring profilometry for accurate depth measurement. , 2007, , .		10
47	Binary Compressive Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1755-1768.	4.7	10
48	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
49	A gradient-based track-following controller optimization for hard disk drive. IEEE Transactions on Industrial Electronics, 2003, 50, 108-115.	7.9	8
50	1-bit walker recognition with distributed binary pyroelectric sensors. , 2010, , .		8
51	Adaptive flight control for quadrotor UAVs with dynamic inversion and neural networks. , 2016, , .		8
52	Action synchronization between human and UAV robotic arms for remote operation. , 2016, , .		8
53	Development of a Smart Floor for Target Localization with Bayesian Binary Sensing. , 2017, , .		8
54	Smart microphone array design for speech enhancement in financial VR and AR. , 2017, , .		8

#	ARTICLE	IF	CITATIONS
55	Linear Bayesian Filter Based Low-Cost UWB Systems for Indoor Mobile Robot Localization. , 2018, , .		8
56	Multiple human tracking with wireless distributed pyro-electric sensors. , 2008, , .		7
57	Low-power electroencephalography sensing data RF transmission. , 2009, , .		7
58	Buffon's needle model based walker recognition with distributed binary sensor networks. , 2012, , .		7
59	A Bayesian Approach for Targets Localization Using Binary Sensor Networks. , 2015, , .		7
60	Development of UAV based virtual reality systems. , 2016, , .		7
61	UAV based target tracking and recognition. , 2016, , .		7
62	Learning Centric Power Allocation for Edge Intelligence. , 2020, , .		7
63	TMR online optimization using quasi-Newton method for HDD servo systems. , 2000, , .		6
64	An optimal multirate control design with robustness specification for sampled-data HDD servo systems. , 0, , .		5
65	Multi-target tracking in distributed active sensor networks. , 2010, , .		5
66	Distributed binary geometric sensor arrays for low-data-throughput human gait biometrics. , 2012, , .		5
67	Space encoding based human activity modeling and situation perception. , 2013, , .		5
68	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
69	A Distributed Range-Only Collision Avoidance Approach for Low-cost Large-scale Multi-Robot Systems. , 2020, , .		5
70	Mobile targets region-of-interest via distributed pyroelectric sensor network: Towards a robust, real-time context reasoning. , 2010, , .		4
71	A compressive eletroencephalography (EEG) sensor design. , 2010, , .		4
72	Robotic Wireless Energy Transfer in Dynamic Environments: System Design and Experimental Validation. IEEE Communications Magazine, 2022, 60, 40-46.	6.1	4

#	ARTICLE	IF	CITATIONS
73	Runtime Safety Assurance for Learning-enabled Control of Autonomous Driving Vehicles. , 2022, , .		4
74	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
75	An integral and differential geometric approach to behavioral information acquisition and integration via binary sensor networks. , 2012, , .		3
76	Development of a virtual reality teleconference system using distributed depth sensors. , 2016, , .		3
77	Space Coding Schemes for Multiple Human Localization With Fiber-Optic Sensors. IEEE Sensors Journal, 2018, 18, 4643-4653.	4.7	3
78	Behavior and Interaction-aware Motion Planning for Autonomous Driving Vehicles based on Hierarchical Intention and Motion Prediction. , 2020, , .		3
79	A self-tuning robust track-following control of sampled-data hard disk drive servo-system. , 2001, , .		2
80	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
81	Quality and matching performance analysis of three-dimensional unraveled fingerprints. Optical Engineering, 2010, 49, 077202.	1.0	2
82	A reconfigurable hardware platform for cognitive sensor networks towards behavioral biometrics. , 2012, , .		2
83	Active sensing of indoor human scenarios through mobile pyroelectric infrared sensors. , 2013, , .		2
84	An integrated UAV navigation system based on geo-registered 3D point cloud. , 2017, , .		2
85	A Reinforcement Learning Based Design of Compressive Sensing Systems for Human Activity Recognition. , 2018, , .		2
86	Pavilion: Bridging Photo-Realism and Robotics. , 2019, , .		2
87	Visual Perception Based Situation Analysis of Traffic Scenes for Autonomous Driving Applications. , 2020, , .		2
88	Phase-SLAM: Mobile Structured Light Illumination for Full Body 3D Scanning. , 2021, , .		2
89	JST: Joint Self-training for Unsupervised Domain Adaptation on 2D&3D Object Detection. , 2022, , .		2
90	Multiple walker recognition using wireless distributed pyro-electric sensors. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
91	Design of compressive imaging masks for human activity perception based on binary convolutional neural network. , 2017, , .		1
92	Autonomous Driving Framework for Bus Transit Systems Towards Operation Safety and Robustness. , 2019, , .		1
93	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
94	Unit-Modulus Wireless Federated Learning Via Penalty Alternating Minimization. , 2021, , .		1
95	Access system requirement for high track per inch hard disk drives. , 0, , .		0
96	A hybrid approach for compressive neural activity detection with functional MR images. , 2009, 2009, 4787-90.		0
97	A wireless laser sensor web for human gait disorder recognition based on the Buffons needle model. , 2013, , .		0
98	Cognitive sensing for distributed behavioral biometrics. , 2013, , .		0
99	Binary sensing and perception for human behavior study. , 2015, , .		0
100	Dual-Resolution Friend Locator System With Privacy Enhancement Through Polygon Decomposition. IEEE Transactions on Vehicular Technology, 2016, 65, 837-847.	6.3	0
101	CS-Fnet: A Compressive Sampling Frequency Neural Network for Simultaneous Image Compression and Recognition. , 2021, , .		0
102	Compressive Detection for Camera Array Images. , 2021, , .		0