

Hongyang Chen

List of Publications by Year in descending order

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117
papers

2,799
citations

201674

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214800

47
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118
all docs

118
docs citations

118
times ranked

2480
citing authors

#	ARTICLE	IF	CITATIONS
1	On Received-Signal-Strength Based Localization with Unknown Transmit Power and Path Loss Exponent. IEEE Wireless Communications Letters, 2012, 1, 536-539.	5.0	199
2	Distributed Wireless Sensor Network Localization Via Sequential Greedy Optimization Algorithm. IEEE Transactions on Signal Processing, 2010, 58, 3328-3340.	5.3	163
3	NLOS Error Mitigation for TOA-Based Localization via Convex Relaxation. IEEE Transactions on Wireless Communications, 2014, 13, 4119-4131.	9.2	140
4	Non-Line-of-Sight Node Localization Based on Semi-Definite Programming in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 108-116.	9.2	133
5	Mobile element assisted cooperative localization for wireless sensor networks with obstacles. IEEE Transactions on Wireless Communications, 2010, 9, 956-963.	9.2	124
6	Vehicular Task Offloading via Heat-Aware MEC Cooperation Using Game-Theoretic Method. IEEE Internet of Things Journal, 2020, 7, 2038-2052.	8.7	120
7	An Importance Sampling Method for TDOA-Based Source Localization. IEEE Transactions on Wireless Communications, 2011, 10, 1560-1568.	9.2	87
8	Distributed Angle Estimation for Localization in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2013, 12, 527-537.	9.2	83
9	Asymmetrical Round Trip Based Synchronization-Free Localization in Large-Scale Underwater Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3532-3542.	9.2	68
10	Mobility-Assisted Node Localization Based on TOA Measurements Without Time Synchronization in Wireless Sensor Networks. Mobile Networks and Applications, 2012, 17, 90-99.	3.3	68
11	Multi-User Two-Way Relay Networks with Distributed Beamforming. IEEE Transactions on Wireless Communications, 2011, 10, 3460-3471.	9.2	66
12	Robust MIMO radar target localization via nonconvex optimization. Signal Processing, 2016, 122, 33-38.	3.7	61
13	An improved DV-Hop localization algorithm for wireless sensor networks. , 2008, , .		59
14	System-level simulation methodology and platform for mobile cellular systems. , 2011, 49, 148-155.		58
15	An Improved DV-Hop Localization Algorithm with Reduced Node Location Error for Wireless Sensor Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 2232-2236.	0.3	56
16	L-shaped array-based elevation and azimuth direction finding in the presence of mutual coupling. Signal Processing, 2011, 91, 1319-1328.	3.7	53
17	Statin uses and mortality in colorectal cancer patients: An updated systematic review and meta-analysis. Cancer Medicine, 2019, 8, 3305-3313.	2.8	49
18	Understanding Private Car Aggregation Effect via Spatio-Temporal Analysis of Trajectory Data. IEEE Transactions on Cybernetics, 2023, 53, 2346-2357.	9.5	49

#	ARTICLE	IF	CITATIONS
19	Novel Centroid Localization Algorithm for Three-Dimensional Wireless Sensor Networks. , 2008, , .		48
20	Accurate and Efficient Node Localization for Mobile Sensor Networks. Mobile Networks and Applications, 2013, 18, 141-147.	3.3	46
21	Stop-and-Wait: Discover Aggregation Effect Based on Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3623-3633.	8.0	45
22	Hyperspectral Image Classification Based on Deep Attention Graph Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	44
23	Double Coded Caching in Ultra Dense Networks: Caching and Multicast Scheduling via Deep Reinforcement Learning. IEEE Transactions on Communications, 2020, 68, 1071-1086.	7.8	42
24	Two-Level Cluster Based Routing Scheme for 5G V2X Communication. IEEE Access, 2019, 7, 16194-16205.	4.2	41
25	Computation Efficiency Maximization and QoE-Provisioning in UAV-Enabled MEC Communication Systems. IEEE Transactions on Network Science and Engineering, 2021, 8, 1630-1645.	6.4	41
26	Tensor Decompositions in Wireless Communications and MIMO Radar. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 438-453.	10.8	40
27	Energy-Efficient Relay-Selection-Based Dynamic Routing Algorithm for IoT-Oriented Software-Defined WSNs. IEEE Internet of Things Journal, 2020, 7, 9050-9065.	8.7	38
28	SGF. ACM Transactions on Sensor Networks, 2009, 5, 1-25.	3.6	37
29	Robust Chinese Remainder Theorem Ranging Method Based on Dual-Frequency Measurements. IEEE Transactions on Vehicular Technology, 2011, 60, 4094-4099.	6.3	32
30	A Channel Quality Metric in Opportunistic Selection With Outdated CSI Over Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 1427-1432.	6.3	31
31	RC-MAC: A receiver-centric medium access control protocol for wireless sensor networks. , 2010, , .		23
32	On Extracting Regular Travel Behavior of Private Cars Based on Trajectory Data Analysis. IEEE Transactions on Vehicular Technology, 2020, 69, 14537-14549.	6.3	23
33	Sparsity-aware SSAF algorithm with individual weighting factors: Performance analysis and improvements in acoustic echo cancellation. Signal Processing, 2021, 178, 107806.	3.7	22
34	Robust RSS-Based Source Localization With Unknown Model Parameters in Mixed LOS/NLOS Environments. IEEE Transactions on Vehicular Technology, 2021, 70, 3926-3931.	6.3	22
35	Advanced self-correcting time synchronization in wireless sensor networks. IEEE Communications Letters, 2010, 14, 309-311.	4.1	18
36	Blockchain-Based Task Offloading for Edge Computing on Low-Quality Data via Distributed Learning in the Internet of Energy. IEEE Journal on Selected Areas in Communications, 2022, 40, 657-676.	14.0	18

#	ARTICLE	IF	CITATIONS
37	A Novel Localization Scheme Based on RSS Data for Wireless Sensor Networks. Lecture Notes in Computer Science, 2006, , 315-320.	1.3	17
38	Cooperative Node Localization for Mobile Sensor Networks. , 2008, , .		17
39	A Framework of Virtual War Room and Matrix Sketch-Based Streaming Anomaly Detection for Microservice Systems. IEEE Access, 2020, 8, 43413-43426.	4.2	17
40	Machine Learning in Real-Time Internet of Things (IoT) Systems: A Survey. IEEE Internet of Things Journal, 2022, 9, 8364-8386.	8.7	15
41	Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. IEEE Internet of Things Journal, 2021, 8, 8557-8569.	8.7	14
42	OTMCL: Orientation tracking-based Monte Carlo localization for mobile sensor networks. , 2009, , .		13
43	Internode Distance-Based Redundancy Reliable Transport in Underwater Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	13
44	Towards an Optimal Sink Placement in Wireless Sensor Networks. , 2010, , .		13
45	Robust Differential Received Signal Strength Based Localization With Model Parameter Errors. IEEE Signal Processing Letters, 2018, 25, 1740-1744.	3.6	13
46	Mitigating Intended Jamming in mmWave MIMO by Hybrid Beamforming. IEEE Wireless Communications Letters, 2019, 8, 1617-1620.	5.0	13
47	Risk Assessment of Private Information Inference for Motion Sensor Embedded IoT Devices. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 265-275.	4.9	13
48	Enhanced User Grouping and Power Allocation for Hybrid mmWave MIMO-NOMA Systems. IEEE Transactions on Wireless Communications, 2022, 21, 2034-2050.	9.2	13
49	Sensor Selection for TDOA-Based Source Localization Using Angle and Range Information. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2597-2604.	4.7	13
50	The study of establishment of an <i>in vivo</i> tumor model by three-dimensional cells culture systems methods and evaluation of antitumor effect of biotin-conjugated pullulan acetate nanoparticles. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 123-131.	2.8	12
51	Context-Aware Quantification for VANET Security: A Markov Chain-Based Scheme. IEEE Access, 2020, 8, 173618-173626.	4.2	12
52	Differential radio map-based robust indoor localization. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	11
53	On the Content Delivery Efficiency of NOMA Assisted Vehicular Communication Networks With Delay Constraints. IEEE Wireless Communications Letters, 2020, 9, 847-850.	5.0	11
54	Hybrid Analog-Digital Precoder Design for Securing Cognitive Millimeter Wave Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 4019-4034.	6.9	11

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55	Computationally Attractive and Location Robust Estimator for IoT Device Positioning. IEEE Internet of Things Journal, 2022, 9, 10891-10907.	8.7	11
56	Power Allocation between Pilot and Data Symbols for MIMO Systems with MMSE Detection under MMSE Channel Estimation. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	9
57	Internal Threats Avoiding Based Forwarding Protocol in Social Selfish Delay Tolerant Networks. , 2011, , .		9
58	Distributed Target Tracking Algorithm for Wireless Sensor Networks. , 2011, , .		9
59	Toward Opportunistic Compression and Transmission for Private Car Trajectory Data Collection. IEEE Sensors Journal, 2019, 19, 1925-1935.	4.7	9
60	Angle-range-polarization-dependent beamforming for polarization sensitive frequency diverse array. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.7	9
61	Mobile anchor assisted node localization for wireless sensor networks. , 2009, , .		8
62	Tree Cover Based Geographic Routing with Guaranteed Delivery. , 2010, , .		8
63	Range-Free Localization with the Radical Line. , 2010, , .		8
64	New Reference Signal Design for URLLC and eMBB Multiplexing in New Radio Wireless Communications. , 2018, , .		8
65	Exploring Human Mobility Patterns and Travel Behavior: A Focus on Private Cars. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 129-146.	3.8	8
66	Frequency-Domain Diffusion Adaptation Over Networks. IEEE Transactions on Signal Processing, 2021, 69, 5419-5430.	5.3	8
67	<i>SenseMag</i>: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. IEEE Internet of Things Journal, 2021, 8, 16666-16679.	8.7	8
68	Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. IEEE Internet of Things Journal, 2021, 8, 13024-13038.	8.7	8
69	User Fairness Aware Power Allocation for NOMA-Assisted Video Transmission With Adaptive Quality Adjustment. IEEE Transactions on Vehicular Technology, 2022, 71, 1054-1059.	6.3	8
70	Exploiting Spatiotemporal Correlations of Arrive-Stay-Leave Behaviors for Private Car Flow Prediction. IEEE Transactions on Network Science and Engineering, 2022, 9, 834-847.	6.4	8
71	Residual Time Aware Forwarding for Randomly Duty-Cycled Wireless Sensor Networks. , 2009, , .		7
72	mPEG- <i>g</i> -CS-Modified PLGA Nanoparticle Carrier for the Codelivery of Paclitaxel and Epirubicin for Breast Cancer Synergistic Therapy. ACS Biomaterials Science and Engineering, 2018, 4, 1651-1660.	5.2	7

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73	Diffusion Bayesian Subband Adaptive Filters for Distributed Estimation Over Sensor Networks. IEEE Transactions on Communications, 2021, 69, 6909-6925.	7.8	7
74	Residual-Energy Aware Modeling and Analysis of Time-Varying Wireless Sensor Networks. IEEE Communications Letters, 2021, 25, 2082-2086.	4.1	7
75	Adaptive Channel Sensing for Asynchronous Cooperative Spectrum Sensing Scheme. IEICE Transactions on Communications, 2013, E96.B, 918-922.	0.7	7
76	A Precoding Approach for Dual-Functional Radar-Communication System With One-Bit DACs. IEEE Journal on Selected Areas in Communications, 2022, 40, 1965-1977.	14.0	7
77	Location Prediction for Individual Vehicles via Exploiting Travel Regularity and Preference. IEEE Transactions on Vehicular Technology, 2022, 71, 4718-4732.	6.3	7
78	Key Pre-Distribution Schemes for Large-Scale Wireless Sensor Networks Using Hexagon Partition. , 2010, , .		6
79	Soft-output MMSE V-BLAST receiver with MMSE channel estimation under correlated Rician fading MIMO channels. Wireless Communications and Mobile Computing, 2012, 12, 1363-1370.	1.2	6
80	Understanding Urban Area Attractiveness Based on Private Car Trajectory Data Using a Deep Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12343-12352.	8.0	6
81	Trajectory Data Acquisition via Private Car Positioning Based on Tightly-coupled GPS/OBD Integration in Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9680-9691.	8.0	6
82	Effect of Correlations on the Performance of GLRT Detector in Cognitive Radios. IEICE Transactions on Communications, 2011, E94-B, 1089-1093.	0.7	6
83	Sieve: Attention-based Sampling of End-to-End Trace Data in Distributed Microservice Systems. , 2021, , .		6
84	Cooperative contention-based forwarding for wireless sensor networks. , 2010, , .		5
85	Distributed Transmit Beamforming Based on Frequency Scanning. , 2011, , .		5
86	Probabilistic Neural Network for RSS-Based Collaborative Localization. , 2012, , .		5
87	Robust tracking algorithm for wireless sensor networks based on improved particle filter. Wireless Communications and Mobile Computing, 2012, 12, 891-900.	1.2	5
88	Deep matrix factorization with knowledge transfer for lifelong clustering and semi-supervised clustering. Information Sciences, 2021, 570, 795-814.	6.9	5
89	Foreseeing private car transfer between urban regions with multiple graph-based generative adversarial networks. World Wide Web, 2022, 25, 2515-2534.	4.0	5
90	Mobility-assisted cooperative localization scheme for wireless sensor networks. , 2008, , .		4

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91	Towards intelligent contention-based geographic forwarding in wireless sensor networks. IET Communications, 2011, 5, 1711-1719.	2.2	4
92	Robust DOA Estimation for Uncorrelated and Coherent Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2035-2038.	0.3	4
93	Scheduling Sinks in Wireless Sensor Networks: Theoretic Analysis and an Optimal Algorithm. , 2011, , .		4
94	Mobility-Assisted Position Estimation in Wireless Sensor Networks. , 2008, , .		3
95	ROME: Rateless Online MDS Code for Wireless Data Broadcasting. , 2010, , .		3
96	Optimality of beamforming condition for multiple antenna systems with mean feedback. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	3
97	Distributed Angle Estimation for Wireless Sensor Network Localization with Multipath Fading. , 2011, , .		3
98	A space-time coding design for continuous phase modulation over the frequency selective fading channel. , 2012, , .		3
99	Target tracking by lightweight blind particle filter in wireless sensor networks. Wireless Communications and Mobile Computing, 2014, 14, 210-220.	1.2	3
100	A Novel Interference Suppression Method in Wireless Relay Networks. , 2018, , .		3
101	Achieving Reliable Intervehicle Positioning Based on Redheffer Weighted Least Squares Model Under Multi-GNSS Outages. IEEE Transactions on Cybernetics, 2023, 53, 1039-1050.	9.5	3
102	Statistical CSI Based Hybrid mmWave MIMO-NOMA with Max-Min Fairness. , 2021, , .		3
103	Machine Learning-based Signal Detection for PMH Signals in Load-modulated MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 4452-4464.	9.2	3
104	Partial Target Coverage Problem in Surveillance Sensor Networks. , 2010, , .		2
105	The Effect of Multipath Propagation on Performance Limit of mmWave MIMO-Based Position, Orientation and Channel Estimation. IEEE Transactions on Vehicular Technology, 2022, 71, 3851-3867.	6.3	2
106	SEP of general rectangular QAM signal with MRC diversity over Nakagami-q (Hoyt) fading channels. , 2008, , .		1
107	An effective power allocation scheme for MMSE MIMO channel estimation with MMSE detection. , 2010, , .		1
108	Space-Time Coding Scheme for Time-Frequency Asynchronous Two-Way Relay Networks. , 2011, , .		1

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109	Trajectory Optimization of Packet Ferries in Sparse Mobile Social Networks. , 2011, , .		1
110	Stochastic Delay Guarantee of Wireless Dual-Hop Networks With Interference-Limited Relay. IEEE Wireless Communications Letters, 2021, 10, 68-71.	5.0	1
111	Ball-Tree-Based Signal Detection for LMA MIMO Systems. IEEE Communications Letters, 2022, 26, 602-606.	4.1	1
112	Adaptive Detector For FDA-Based Ambient Backscatter Communications. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	1
113	Sequential Greedy Localization in Wireless Sensor Networks With Inaccurate Anchor Positions. , 2009, , .		0
114	Low Altitude Target Tracking Algorithm with Acoustic Wireless Sensor Network. , 2010, , .		0
115	Blind Carrier Frequency Offset Estimation for MIMO OFDMA Uplink. , 2011, , .		0
116	Towards accurate and robust map-aid indoor human tracking. , 2012, , .		0
117	Introduction to the Special Issue on Tensor Decomposition for Signal Processing and Machine Learning. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 433-437.	10.8	0