

# Xiaohua Tian

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

1,315  
citations

430874

18  
h-index

434195

31  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving accuracy of automatic optical inspection with machine learning. <i>Frontiers of Computer Science</i> , 2022, 16, 1.	2.4	4
2	Online Spatial Crowdsensing With Expertise-Aware Truth Inference and Task Allocation. <i>IEEE Journal on Selected Areas in Communications</i> , 2022, 40, 412-427.	14.0	12
3	CSI Fingerprinting Localization With Low Human Efforts. <i>IEEE/ACM Transactions on Networking</i> , 2021, 29, 372-385.	3.8	32
4	Wi-Fi Localization Enabling Self-Calibration. <i>IEEE/ACM Transactions on Networking</i> , 2021, 29, 904-917.	3.8	19
5	Spectrum Analysis of 2.4 GHz Band Based on Successive Signal Detection. , 2021, , .		0
6	Location-Aware Crowdsensing: Dynamic Task Assignment and Truth Inference. <i>IEEE Transactions on Mobile Computing</i> , 2020, 19, 362-375.	5.8	34
7	RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. <i>IEEE Transactions on Mobile Computing</i> , 2020, 19, 450-465.	5.8	17
8	XORLoRa: LoRa Backscatter Communication with Commodity Devices. , 2020, , .		2
9	UniTag: Enabling Multi-Frequency Backscatter. , 2020, , .		1
10	Guest Editorial Special Issue on Enabling a Smart City: Internet of Things Meets AI. <i>IEEE Internet of Things Journal</i> , 2019, 6, 7469-7472.	8.7	4
11	Data Driven Resource Allocation for NFV-Based Internet of Things. <i>IEEE Internet of Things Journal</i> , 2019, 6, 8310-8322.	8.7	8
12	Calibration-Free Localization Based on Fingerprinting of Channel State Information. , 2019, , .		1
13	Deriving AP Position and Antenna Array Orientation for Wi-Fi Localization. , 2019, , .		3
14	iBlink: A Wearable Device Facilitating Facial Paralysis Patients to Blink. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 1789-1801.	5.8	8
15	Performance Analysis of Wi-Fi Indoor Localization with Channel State Information. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 1870-1884.	5.8	17
16	FineLoc: A Fine-Grained Self-Calibrating Wireless Indoor Localization System. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 2077-2090.	5.8	33
17	Seeking powerful information initial spreaders in online social networks: a dense group perspective. <i>Wireless Networks</i> , 2018, 24, 2973-2991.	3.0	3
18	Improve Accuracy of Fingerprinting Localization with Temporal Correlation of the RSS. <i>IEEE Transactions on Mobile Computing</i> , 2018, 17, 113-126.	5.8	31

#	ARTICLE	IF	CITATIONS
19	Optimization of Fingerprints Reporting Strategy for WLAN Indoor Localization. IEEE Transactions on Mobile Computing, 2018, 17, 390-403.	5.8	22
20	Dynamic Task Assignment in Crowdsensing with Location Awareness and Location Diversity. , 2018, , .		51
21	Large-scale Wireless Fingerprints Prediction for Cellular Network Positioning. , 2018, , .		1
22	Capacity Analysis of Frequency Shift Based Backscatter Communication System. , 2018, , .		3
23	Toward a Quality-Aware Online Pricing Mechanism for Crowdsensed Wireless Fingerprints. IEEE Transactions on Vehicular Technology, 2018, 67, 5953-5964.	6.3	10
24	Crowdsensing-Based Consensus Incident Report for Road Traffic Acquisition. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2536-2547.	8.0	44
25	Incentivize Multi-Class Crowd Labeling Under Budget Constraint. IEEE Journal on Selected Areas in Communications, 2017, 35, 893-905.	14.0	24
26	Performance Analysis of RSS Fingerprinting Based Indoor Localization. IEEE Transactions on Mobile Computing, 2017, 16, 2847-2861.	5.8	71
27	Incentivizing Crowdsensing With Location-Privacy Preserving. IEEE Transactions on Wireless Communications, 2017, 16, 6940-6952.	9.2	68
28	On the Greedy Resource Occupancy Threat in Dynamic Spectrum Access. IEEE Transactions on Vehicular Technology, 2017, 66, 11233-11248.	6.3	4
29	iBILL: Using iBeacon and Inertial Sensors for Accurate Indoor Localization in Large Open Areas. IEEE Access, 2017, 5, 14589-14599.	4.2	51
30	Gaussian process based radio map construction for LTE localization. , 2017, , .		7
31	A novel online incentive mechanism under budget constraint for crowdsourcing systems. , 2017, , .		2
32	Transmission Rate Analysis in Multi-Level Hierarchical Coded Caching. , 2017, , .		1
33	A shortest path routing algorithm based on virtual coordinate in NeLS. , 2016, , .		4
34	Squeeze More from Fingerprints Reporting Strategy for Indoor Localization. , 2016, , .		5
35	Network Connectivity With Inhomogeneous Correlated Mobility. IEEE Transactions on Wireless Communications, 2016, 15, 4307-4320.	9.2	6
36	Mobility Weakens the Distinction Between Multicast and Unicast. IEEE/ACM Transactions on Networking, 2016, 24, 1350-1363.	3.8	6

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37	QoS demands splitting for RAT selection in heterogeneous networks. , 2015, , .		1
38	Profit maximization for secondary users in dynamic spectrum auction of cognitive radio networks. Wireless Communications and Mobile Computing, 2015, 15, 1331-1341.	1.2	1
39	Socially-aware resource allocation for device-to-device communications in cellular networks. IET Communications, 2015, 9, 342-349.	2.2	41
40	Two-Dimensional Route Switching in Cognitive Radio Networks: A Game-Theoretical Framework. IEEE/ACM Transactions on Networking, 2015, 23, 1053-1066.	3.8	24
41	Content Delivery in Converged Network: Reward Sharing or Not?. , 2015, , .		0
42	Incentivize crowd labeling under budget constraint. , 2015, , .		81
43	Analysis of Random Walk Mobility Models with Location Heterogeneity. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2657-2670.	5.6	6
44	Markov approximation for Multi-RAT selection. , 2015, , .		6
45	Exploiting the unexploited of coded caching for wireless content distribution. , 2015, , .		11
46	Quality-Driven Auction-Based Incentive Mechanism for Mobile Crowd Sensing. IEEE Transactions on Vehicular Technology, 2015, 64, 4203-4214.	6.3	165
47	The collocation of measurement points in large open indoor environment. , 2015, , .		6
48	Fundamental limits of RSS fingerprinting based indoor localization. , 2015, , .		85
49	Interference Exploitation in D2D-enabled Cellular Networks: A Secrecy Perspective. IEEE Transactions on Communications, 2014, , 1-1.	7.8	106
50	Relieving hotspots in data center networks with wireless neighborways. , 2014, , .		6
51	Are we still friends: Kernel multivariate survival analysis. , 2014, , .		0
52	Data offloading in two-tier networks: A contract design approach. , 2014, , .		5
53	A predictive methodology for truthful double spectrum auctions in cognitive radio networks. , 2014, , .		1
54	Multi-class labeling with BCH codes for mobile crowdsensing. , 2014, , .		1

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55	Answer inference for crowdsourcing based scoring. , 2014, , .		1
56	Two Dimension Spectrum Allocation for Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1410-1423.	9.2	20
57	Optimal Multicast Capacity and DelayTradeoffs in MANETs. IEEE Transactions on Mobile Computing, 2014, 13, 1104-1117.	5.8	19
58	Scaling laws for heterogeneous cognitive radio networks with cooperative secondary users. , 2014, , .		3
59	A Scalable Destination-Oriented MulticastProtocol with Incremental Deployability. IEEE Transactions on Computers, 2014, 63, 793-806.	3.4	1
60	Content Delivery in Converged Network: Reward Sharing or Not?. , 2014, , .		0
61	Hybrid channel assignment in multi-hop multi-radio cognitive ad hoc network. , 2013, , .		5
62	Joint design of relay precoding and artificial noise with presence of an eavesdropper. , 2013, , .		1
63	Correlation and capacity evaluation for dual polarized MIMO system based on an extended 3-D geometry-based stochastic channel model. , 2013, , .		1
64	A generic simulation framework for energy consumption in data center networks. , 2013, , .		0
65	Cooperative relaying schemes for device-to-device communication underlying cellular networks. , 2013, , .		7
66	A theoretical framework for mitigating delay in 3D wireless data center networks. , 2013, , .		0
67	EESM-based fingerprint algorithm for Wi-Fi indoor positioning system. , 2013, , .		3
68	Multicast capacity of wireless ad hoc networks with infrastructure support. , 2012, , .		1
69	Efficient wireless sensor networks scheduling scheme: Game theoretic analysis and algorithm. , 2012, , .		4
70	Near-optimal spectrum allocation for cognitive radios: A frequency-time auction perspective. , 2012, , .		3
71	Loop mitigation in bloom filter based multicast: A destination-oriented approach. , 2012, , .		10
72	Energy and latency analysis for in-network computation with compressive sensing in wireless sensor networks. , 2012, , .		6

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73	Capacity in arbitrary wireless ad hoc networks with MIMO and power constraint. , 2012, , .		0
74	Percolation Degree of Secondary Users in Cognitive Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1994-2005.	14.0	14
75	A generic framework for throughput-optimal control in MR-MC wireless networks. , 2012, , .		9
76	Incrementally deploying the Bloom filter-based scalable multicast protocol. , 2012, , .		0
77	Cognitive transmission based on data priority classification in WSNs for Smart Grid. , 2012, , .		3
78	Multicast Capacity for VANETs with Directional Antenna and Delay Constraint. IEEE Journal on Selected Areas in Communications, 2012, 30, 818-833.	14.0	45
79	A Distributed Relay Selection Algorithm Using Game on Real-Time Testbed. , 2011, , .		1
80	On the Capacity and Delay of Data Gathering with Compressive Sensing in Wireless Sensor Networks. , 2011, , .		3