

# Xiaohua Tian

## List of Publications by Year in descending order

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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	Quality-Driven Auction-Based Incentive Mechanism for Mobile Crowd Sensing. IEEE Transactions on Vehicular Technology, 2015, 64, 4203-4214.	6.3	165
2	Interference Exploitation in D2D-enabled Cellular Networks: A Secrecy Perspective. IEEE Transactions on Communications, 2014, , 1-1.	7.8	106
3	Fundamental limits of RSS fingerprinting based indoor localization. , 2015, , .		85
4	Incentivize crowd labeling under budget constraint. , 2015, , .		81
5	Performance Analysis of RSS Fingerprinting Based Indoor Localization. IEEE Transactions on Mobile Computing, 2017, 16, 2847-2861.	5.8	71
6	Incentivizing Crowdsensing With Location-Privacy Preserving. IEEE Transactions on Wireless Communications, 2017, 16, 6940-6952.	9.2	68
7	iBILL: Using iBeacon and Inertial Sensors for Accurate Indoor Localization in Large Open Areas. IEEE Access, 2017, 5, 14589-14599.	4.2	51
8	Dynamic Task Assignment in Crowdsensing with Location Awareness and Location Diversity. , 2018, , .		51
9	Multicast Capacity for VANETs with Directional Antenna and Delay Constraint. IEEE Journal on Selected Areas in Communications, 2012, 30, 818-833.	14.0	45
10	Crowdsensing-Based Consensus Incident Report for Road Traffic Acquisition. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2536-2547.	8.0	44
11	Sociality-aware resource allocation for device-to-device communications in cellular networks. IET Communications, 2015, 9, 342-349.	2.2	41
12	Location-Aware Crowdsensing: Dynamic Task Assignment and Truth Inference. IEEE Transactions on Mobile Computing, 2020, 19, 362-375.	5.8	34
13	FineLoc: A Fine-Grained Self-Calibrating Wireless Indoor Localization System. IEEE Transactions on Mobile Computing, 2019, 18, 2077-2090.	5.8	33
14	CSI Fingerprinting Localization With Low Human Efforts. IEEE/ACM Transactions on Networking, 2021, 29, 372-385.	3.8	32
15	Improve Accuracy of Fingerprinting Localization with Temporal Correlation of the RSS. IEEE Transactions on Mobile Computing, 2018, 17, 113-126.	5.8	31
16	Two-Dimensional Route Switching in Cognitive Radio Networks: A Game-Theoretical Framework. IEEE/ACM Transactions on Networking, 2015, 23, 1053-1066.	3.8	24
17	Incentivize Multi-Class Crowd Labeling Under Budget Constraint. IEEE Journal on Selected Areas in Communications, 2017, 35, 893-905.	14.0	24
18	Optimization of Fingerprints Reporting Strategy for WLAN Indoor Localization. IEEE Transactions on Mobile Computing, 2018, 17, 390-403.	5.8	22

#	ARTICLE	IF	CITATIONS
19	Two Dimension Spectrum Allocation for Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1410-1423.	9.2	20
20	Optimal Multicast Capacity and Delay Tradeoffs in MANETs. IEEE Transactions on Mobile Computing, 2014, 13, 1104-1117.	5.8	19
21	Wi-Fi Localization Enabling Self-Calibration. IEEE/ACM Transactions on Networking, 2021, 29, 904-917.	3.8	19
22	Performance Analysis of Wi-Fi Indoor Localization with Channel State Information. IEEE Transactions on Mobile Computing, 2019, 18, 1870-1884.	5.8	17
23	RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. IEEE Transactions on Mobile Computing, 2020, 19, 450-465.	5.8	17
24	Percolation Degree of Secondary Users in Cognitive Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1994-2005.	14.0	14
25	Online Spatial Crowdsensing With Expertise-Aware Truth Inference and Task Allocation. IEEE Journal on Selected Areas in Communications, 2022, 40, 412-427.	14.0	12
26	Exploiting the unexploited of coded caching for wireless content distribution. , 2015, , .		11
27	Loop mitigation in bloom filter based multicast: A destination-oriented approach. , 2012, , .		10
28	Toward a Quality-Aware Online Pricing Mechanism for Crowdsensed Wireless Fingerprints. IEEE Transactions on Vehicular Technology, 2018, 67, 5953-5964.	6.3	10
29	A generic framework for throughput-optimal control in MR-MC wireless networks. , 2012, , .		9
30	Data Driven Resource Allocation for NFV-Based Internet of Things. IEEE Internet of Things Journal, 2019, 6, 8310-8322.	8.7	8
31	iBlink: A Wearable Device Facilitating Facial Paralysis Patients to Blink. IEEE Transactions on Mobile Computing, 2019, 18, 1789-1801.	5.8	8
32	Cooperative relaying schemes for device-to-device communication underlying cellular networks. , 2013, , .		7
33	Gaussian process based radio map construction for LTE localization. , 2017, , .		7
34	Energy and latency analysis for in-network computation with compressive sensing in wireless sensor networks. , 2012, , .		6
35	Relieving hotspots in data center networks with wireless neighborways. , 2014, , .		6
36	Analysis of Random Walk Mobility Models with Location Heterogeneity. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2657-2670.	5.6	6

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37	Markov approximation for Multi-RAT selection. , 2015, , .		6
38	The collocation of measurement points in large open indoor environment. , 2015, , .		6
39	Network Connectivity With Inhomogeneous Correlated Mobility. IEEE Transactions on Wireless Communications, 2016, 15, 4307-4320.	9.2	6
40	Mobility Weakens the Distinction Between Multicast and Unicast. IEEE/ACM Transactions on Networking, 2016, 24, 1350-1363.	3.8	6
41	Hybrid channel assignment in multi-hop multi-radio cognitive ad hoc network. , 2013, , .		5
42	Data offloading in two-tier networks: A contract design approach. , 2014, , .		5
43	Squeeze More from Fingerprints Reporting Strategy for Indoor Localization. , 2016, , .		5
44	Efficient wireless sensor networks scheduling scheme: Game theoretic analysis and algorithm. , 2012, , .		4
45	A shortest path routing algorithm based on virtual coordinate in NeLS. , 2016, , .		4
46	On the Greedy Resource Occupancy Threat in Dynamic Spectrum Access. IEEE Transactions on Vehicular Technology, 2017, 66, 11233-11248.	6.3	4
47	Guest Editorial Special Issue on Enabling a Smart City: Internet of Things Meets AI. IEEE Internet of Things Journal, 2019, 6, 7469-7472.	8.7	4
48	Improving accuracy of automatic optical inspection with machine learning. Frontiers of Computer Science, 2022, 16, 1.	2.4	4
49	On the Capacity and Delay of Data Gathering with Compressive Sensing in Wireless Sensor Networks. , 2011, , .		3
50	Near-optimal spectrum allocation for cognitive radios: A frequency-time auction perspective. , 2012, , .		3
51	Cognitive transmission based on data priority classification in WSNs for Smart Grid. , 2012, , .		3
52	EESM-based fingerprint algorithm for Wi-Fi indoor positioning system. , 2013, , .		3
53	Scaling laws for heterogeneous cognitive radio networks with cooperative secondary users. , 2014, , .		3
54	Seeking powerful information initial spreaders in online social networks: a dense group perspective. Wireless Networks, 2018, 24, 2973-2991.	3.0	3

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55	Capacity Analysis of Frequency Shift Based Backscatter Communication System. , 2018, , .		3
56	Deriving AP Position and Antenna Array Orientation for Wi-Fi Localization. , 2019, , .		3
57	A novel online incentive mechanism under budget constraint for crowdsourcing systems. , 2017, , .		2
58	XORLoRa: LoRa Backscatter Communication with Commodity Devices. , 2020, , .		2
59	A Distributed Relay Selection Algorithm Using Game on Real-Time Testbed. , 2011, , .		1
60	Multicast capacity of wireless ad hoc networks with infrastructure support. , 2012, , .		1
61	Joint design of relay precoding and artificial noise with presence of an eavesdropper. , 2013, , .		1
62	Correlation and capacity evaluation for dual polarized MIMO system based on an extended 3-D geometry-based stochastic channel model. , 2013, , .		1
63	A predictive methodology for truthful double spectrum auctions in cognitive radio networks. , 2014, , .		1
64	Multi-class labeling with BCH codes for mobile crowdsensing. , 2014, , .		1
65	Answer inference for crowdsourcing based scoring. , 2014, , .		1
66	A Scalable Destination-Oriented Multicast Protocol with Incremental Deployability. IEEE Transactions on Computers, 2014, 63, 793-806.	3.4	1
67	QoS demands splitting for RAT selection in heterogeneous networks. , 2015, , .		1
68	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
69	Transmission Rate Analysis in Multi-Level Hierarchical Coded Caching. , 2017, , .		1
70	Large-scale Wireless Fingerprints Prediction for Cellular Network Positioning. , 2018, , .		1
71	Calibration-Free Localization Based on Fingerprinting of Channel State Information. , 2019, , .		1
72	UniTag: Enabling Multi-Frequency Backscatter. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
73	Capacity in arbitrary wireless ad hoc networks with MIMO and power constraint. , 2012, , .		0
74	Incrementally deploying the Bloom filter-based scalable multicast protocol. , 2012, , .		0
75	A generic simulation framework for energy consumption in data center networks. , 2013, , .		0
76	A theoretical framework for mitigating delay in 3D wireless data center networks. , 2013, , .		0
77	Are we still friends: Kernel multivariate survival analysis. , 2014, , .		0
78	Content Delivery in Converged Network: Reward Sharing or Not?. , 2014, , .		0
79	Content Delivery in Converged Network: Reward Sharing or Not?. , 2015, , .		0
80	Spectrum Analysis of 2.4 GHz Band Based on Successive Signal Detection. , 2021, , .		0