

# Li Xiao

## List of Publications by Year in descending order

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102  
papers

2,397  
citations

361413

20  
h-index

265206

42  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2004  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Evolution of MAC Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 101-120.	39.4	431
2	Location awareness in unstructured peer-to-peer systems. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 163-174.	5.6	142
3	MSU Jumper: A Single-Motor-Actuated Miniature Steerable Jumping Robot. IEEE Transactions on Robotics, 2013, 29, 602-614.	10.3	131
4	SADV: Static-Node-Assisted Adaptive Data Dissemination in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 2445-2455.	6.3	103
5	Efficient Multicast Algorithms for Multichannel Wireless Mesh Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 86-99.	5.6	101
6	Building a Scalable Bipartite P2P Overlay Network. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1296-1306.	5.6	94
7	Multicast Algorithms for Multi-Channel Wireless Mesh Networks. , 2007, , .		85
8	Dynamic layer management in superpeer architectures. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 1078-1091.	5.6	80
9	MSU Tailbot: Controlling Aerial Maneuver of a Miniature-Tailed Jumping Robot. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2903-2914.	5.8	73
10	Location-aware topology matching in P2P systems. , 0, , .		70
11	Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 1720-1733.	5.8	70
12	Channel Allocation and Routing in Hybrid Multichannel Multiradio Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2013, 12, 206-218.	5.8	59
13	ARC: Adaptive Reputation based Clustering Against Spectrum Sensing Data Falsification Attacks. IEEE Transactions on Mobile Computing, 2014, 13, 1707-1719.	5.8	46
14	Channel allocation in multi-channel wireless mesh networks. Computer Communications, 2011, 34, 803-815.	5.1	45
15	Low-cost and reliable mutual anonymity protocols in peer-to-peer networks. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 829-840.	5.6	38
16	A miniature 25 grams running and jumping robot. , 2014, , .		38
17	Wireless Spectrum Occupancy Prediction Based on Partial Periodic Pattern Mining. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1925-1934.	5.6	37
18	RC-MAC: A Receiver-Centric MAC Protocol for Event-Driven Wireless Sensor Networks. IEEE Transactions on Computers, 2015, 64, 1149-1161.	3.4	36

#	ARTICLE	IF	CITATIONS
19	Development of a controllable and continuous jumping robot. , 2011, , .		31
20	Improving End-to-End Routing Performance of Greedy Forwarding in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 556-563.	5.6	31
21	Channel assignment with partially overlapping channels in wireless mesh networks. , 2008, , .		31
22	Parallel network RAM: effectively utilizing global cluster memory for large data-intensive parallel programs. , 2004, , .		28
23	An Effective P2P Search Scheme to Exploit File Sharing Heterogeneity. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 145-157.	5.6	27
24	Fast and low-cost search schemes by exploiting localities in P2P networks. Journal of Parallel and Distributed Computing, 2005, 65, 729-742.	4.1	26
25	Using mobile beacons to locate sensors in obstructed environments. Journal of Parallel and Distributed Computing, 2010, 70, 644-656.	4.1	26
26	Video On-Demand Streaming in Cognitive Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2013, 12, 412-423.	5.8	24
27	RC-MAC: A receiver-centric medium access control protocol for wireless sensor networks. , 2010, , .		23
28	WiFi-BA: Choosing arbitration over backoff in high speed multicarrier wireless networks. , 2013, , .		23
29	Securing Sensor Nodes Against Side Channel Attacks. , 2008, , .		21
30	A Miniature Water Surface Jumping Robot. IEEE Robotics and Automation Letters, 2017, 2, 1272-1279.	5.1	20
31	Multi-path routing and rate allocation for multi-source video on-demand streaming in wireless mesh networks. , 2011, , .		19
32	Maintaining source privacy under eavesdropping and node compromise attacks. , 2011, , .		19
33	Adaptive memory allocations in clusters to handle unexpectedly large data-intensive jobs. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 577-592.	5.6	18
34	AOTO: adaptive overlay topology optimization in unstructured P2P systems. , 0, , .		17
35	Controlling aerial maneuvering of a miniature jumping robot using its tail. , 2013, , .		17
36	Hybrid Periodical Flooding in Unstructured Peer-to-Peer Networks. , 2006, , 573-591.		15

#	ARTICLE	IF	CITATIONS
37	Dynamic Channel Bonding: Enabling Flexible Spectrum Aggregation. IEEE Transactions on Mobile Computing, 2016, 15, 3042-3056.	5.8	15
38	Hybrid multi-channel multi-radio wireless mesh networks. , 2009, , .		14
39	Leveraging Height in a Jumping Sensor Network to Extend Network Coverage. IEEE Transactions on Wireless Communications, 2012, 11, 1840-1849.	9.2	13
40	SOLONet: Sub-optimal location-aided overlay network for MANETs. Wireless Networks, 2008, 14, 415-433.	3.0	12
41	Inter-Femtocell Interference Identification and Resource Management. IEEE Transactions on Mobile Computing, 2020, 19, 116-129.	5.8	12
42	Efficient link-heterogeneous multicast for wireless mesh networks. Wireless Networks, 2012, 18, 605-620.	3.0	11
43	A Fully Distributed Method to Detect and Reduce Cut Vertices in Large-Scale Overlay Networks. IEEE Transactions on Computers, 2012, 61, 969-985.	3.4	11
44	Bid and Time Truthful Online Auctions in Dynamic Spectrum Markets. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 82-96.	7.9	11
45	Design and testing of a controllable miniature jumping robot. , 2010, , .		10
46	Multisource Video On-Demand Streaming in Wireless Mesh Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1800-1813.	3.8	10
47	Improving Query Response Delivery Quality in Peer-to-Peer Systems. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1335-1347.	5.6	9
48	hiREP: Hierarchical Reputation Management for Peer-to-Peer Systems. , 0, , .		8
49	Routing and spectrum allocation for video on-demand streaming in cognitive wireless mesh networks. , 2010, , .		8
50	A Protocol for Link Blockage Mitigation in mm-Wave Networks. , 2017, , .		8
51	Virtual Ruler: Mobile Beacon Based Distance Measurements for Indoor Sensor Localization. , 2006, , .		7
52	Learning-based Blockage Prediction for Robust Links in Dynamic Millimeter Wave Networks. , 2019, , .		7
53	Interference Precancellation for Resource Management in Heterogeneous Cellular Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 138-152.	7.9	7
54	Resource Allocation Using Multiple Edge-Sharing Multicast Trees. IEEE Transactions on Vehicular Technology, 2008, 57, 3178-3186.	6.3	6

#	ARTICLE	IF	CITATIONS
55	A single motor actuated miniature steerable jumping robot. , 2012, , .		6
56	Wireless Spectrum Occupancy Prediction Based on Partial Periodic Pattern Mining. , 2012, , .		6
57	Multi-fusion Based Distributed Spectrum Sensing against Data Falsification Attacks and Byzantine Failures in CR-MANET. , 2014, , .		6
58	Interference Aware Reliable Cooperative Cognitive Networks for Real-Time Applications. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 53-67.	7.9	6
59	Mutual anonymity protocols for hybrid peer-to-peer systems. , 0, , .		5
60	Adaptively Routing P2P Queries Using Association Analysis. , 2006, , .		5
61	Energy Balancing Hopping Sensor Network Model to Maximize Coverage. , 2009, , .		5
62	Dynamic channel bonding in multicarrier wireless networks. , 2013, , .		5
63	TAS-MAC: A traffic-adaptive synchronous MAC protocol for wireless sensor networks. , 2013, , .		5
64	Efficient broadcast on fragmented spectrum in cognitive radio networks. , 2015, , .		5
65	Building $\epsilon$ -Protected Routes in Multi-Hop Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 976-989.	7.9	5
66	Multi-Objective Approach for User Association to Improve Load Balancing and Blockage in Millimeter Wave Cellular Networks. IEEE Transactions on Mobile Computing, 2023, 22, 2818-2836.	5.8	5
67	Defending P2Ps from Overlay Flooding-based DDoS. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	4
68	Efficient Opportunistic Multicast via Tree Backbone for Wireless Mesh Networks. , 2011, , .		4
69	Towards a truthful online spectrum auction with dynamic demand and supply. , 2015, , .		4
70	A design of overlay anonymous multicast protocol. , 2006, , .		3
71	CENDA: Camouflage Event Based Malicious Node Detection Architecture. , 2009, , .		3
72	Exploiting cooperation for delay optimization in cognitive networks. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
73	RMIP: Resource management with interference precancellation in heterogeneous cellular networks. , 2016, , .		3
74	Auto-FCD: efficiently parallelizing CFD applications on clusters. , 2003, , .		2
75	Resource allocation using multiple edgesharing multicast trees. , 0, , .		2
76	Anonymous Content Sharing in Ad Hoc Networks. , 0, , .		2
77	Improving Routing Quality of Greedy Forwarding in Wireless Networks. IEEE International Workshop on Quality of Service, 2007, , .	0.0	2
78	Inbound Traffic Load Balancing in BGP Multi-homed Stub Networks. , 2008, , .		2
79	ILBO: Balance Inbound Traffic Dynamically in Multihomed Stub Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1561-1572.	5.6	2
80	Routing for minimum length schedule in multi-channel TDMA based wireless mesh networks. , 2010, , .		2
81	Efficient NC-OFDM-Based Control Channel Establishment in Cognitive Radio Networks. , 2016, , .		2
82	HSNet: Energy Conservation in Heterogeneous Smartphone Ad Hoc Networks. , 2018, , .		2
83	Interference and Blockage Prediction in mmWave-Enabled HetNets. , 2018, , .		2
84	NCCC: NC-OFDM-based control channel establishment in cognitive radio networks using subcarrier pulses. Wireless Networks, 2020, 26, 2567-2583.	3.0	2
85	Learning-based blockage prediction for robust links in dynamic millimeter wave networks. Wireless Networks, 2021, 27, 4693-4714.	3.0	2
86	Building Efficient Overlays. Journal of Grid Computing, 2004, 2, 183-192.	3.9	1
87	Dynamic layer management in super-peer architectures. , 2004, , .		1
88	Approaching Optimal Peer-to-Peer Overlays. , 0, , .		1
89	Distributed learning approach for channel selection in Cognitive Radio Networks. , 2011, , .		1
90	Mining frequent partial periodic patterns in spectrum usage data. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
91	DBLA: Distributed block learning algorithm for channel selection in Cognitive Radio Networks. , 2012, , .		1
92	Cooperative Routing via Overlapping Coalition Formation Game in Cognitive Radio Networks. , 2016, , .		1
93	Exploiting Modulation Scheme Diversity in Multicarrier Wireless Networks. , 2016, , .		1
94	k-Protected Routing Protocol in Multi-hop Cognitive Radio Networks. , 2017, , .		1
95	Multi-Objective Approach to Improve Load Balance and Blockage in Millimeter Wave Cellular Networks. , 2019, , .		1
96	Mitigating Interference and Blockage Through Fingerprinting in Mmwave-Enabled HetNets. IEEE Transactions on Network Science and Engineering, 2022, 9, 3361-3372.	6.4	1
97	Auto-CFD-NOW: A pre-compiler for effectively parallelizing CFD applications on networks of workstations. Journal of Supercomputing, 2006, 38, 189-217.	3.6	0
98	Efficient multicast for link-heterogeneous wireless mesh networks. , 2009, , .		0
99	Recursive validation and clustering for distributed spectrum sensing in CR-MANET. , 2013, , .		0
100	Truthful Online Double Auctions with Real-Time Stochastic Arrival of Demand and Supply. , 2016, , .		0
101	SFAB: Spectrum Fragment Agile Broadcast in Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 628-642.	7.9	0
102	Coalition-Based Cooperative Routing in Cognitive Radio Networks. , 2018, , .		0