

# Li Xiao

## List of Publications by Year in descending order

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102  
papers

2,397  
citations

361413

20  
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265206

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102  
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102  
docs citations

102  
times ranked

2004  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Mitigating Interference and Blockage Through Fingerprinting in Mmwave-Enabled HetNets. IEEE Transactions on Network Science and Engineering, 2022, 9, 3361-3372.	6.4	1
3	Learning-based blockage prediction for robust links in dynamic millimeter wave networks. Wireless Networks, 2021, 27, 4693-4714.	3.0	2
4	Inter-Femtocell Interference Identification and Resource Management. IEEE Transactions on Mobile Computing, 2020, 19, 116-129.	5.8	12
5	NCCC: NC-OFDM-based control channel establishment in cognitive radio networks using subcarrier pulses. Wireless Networks, 2020, 26, 2567-2583.	3.0	2
6	Learning-based Blockage Prediction for Robust Links in Dynamic Millimeter Wave Networks. , 2019, , .		7
7	Building $\epsilon$ -Protected Routes in Multi-Hop Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 976-989.	7.9	5
8	Multi-Objective Approach to Improve Load Balance and Blockage in Millimeter Wave Cellular Networks. , 2019, , .		1
9	Interference Precancellation for Resource Management in Heterogeneous Cellular Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 138-152.	7.9	7
10	Coalition-Based Cooperative Routing in Cognitive Radio Networks. , 2018, , .		0
11	HSNet: Energy Conservation in Heterogeneous Smartphone Ad Hoc Networks. , 2018, , .		2
12	Interference and Blockage Prediction in mmWave-Enabled HetNets. , 2018, , .		2
13	A Miniature Water Surface Jumping Robot. IEEE Robotics and Automation Letters, 2017, 2, 1272-1279.	5.1	20
14	Bid and Time Truthful Online Auctions in Dynamic Spectrum Markets. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 82-96.	7.9	11
15	SFAB: Spectrum Fragment Agile Broadcast in Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 628-642.	7.9	0
16	k-Protected Routing Protocol in Multi-hop Cognitive Radio Networks. , 2017, , .		1
17	A Protocol for Link Blockage Mitigation in mm-Wave Networks. , 2017, , .		8
18	RMIP: Resource management with interference precancellation in heterogeneous cellular networks. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	Truthful Online Double Auctions with Real-Time Stochastic Arrival of Demand and Supply. , 2016, , .		0
20	Efficient NC-OFDM-Based Control Channel Establishment in Cognitive Radio Networks. , 2016, , .		2
21	Interference Aware Reliable Cooperative Cognitive Networks for Real-Time Applications. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 53-67.	7.9	6
22	Cooperative Routing via Overlapping Coalition Formation Game in Cognitive Radio Networks. , 2016, , .		1
23	Exploiting Modulation Scheme Diversity in Multicarrier Wireless Networks. , 2016, , .		1
24	Dynamic Channel Bonding: Enabling Flexible Spectrum Aggregation. IEEE Transactions on Mobile Computing, 2016, 15, 3042-3056.	5.8	15
25	Towards a truthful online spectrum auction with dynamic demand and supply. , 2015, , .		4
26	MSU Tailbot: Controlling Aerial Maneuver of a Miniature-Tailed Jumping Robot. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2903-2914.	5.8	73
27	Efficient broadcast on fragmented spectrum in cognitive radio networks. , 2015, , .		5
28	RC-MAC: A Receiver-Centric MAC Protocol for Event-Driven Wireless Sensor Networks. IEEE Transactions on Computers, 2015, 64, 1149-1161.	3.4	36
29	Wireless Spectrum Occupancy Prediction Based on Partial Periodic Pattern Mining. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1925-1934.	5.6	37
30	A miniature 25 grams running and jumping robot. , 2014, , .		38
31	Multi-fusion Based Distributed Spectrum Sensing against Data Falsification Attacks and Byzantine Failures in CR-MANET. , 2014, , .		6
32	ARC: Adaptive Reputation based Clustering Against Spectrum Sensing Data Falsification Attacks. IEEE Transactions on Mobile Computing, 2014, 13, 1707-1719.	5.8	46
33	Channel Allocation and Routing in Hybrid Multichannel Multiradio Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2013, 12, 206-218.	5.8	59
34	Video On-Demand Streaming in Cognitive Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2013, 12, 412-423.	5.8	24
35	MSU Jumper: A Single-Motor-Actuated Miniature Steerable Jumping Robot. IEEE Transactions on Robotics, 2013, 29, 602-614.	10.3	131
36	The Evolution of MAC Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 101-120.	39.4	431

#	ARTICLE	IF	CITATIONS
37	Recursive validation and clustering for distributed spectrum sensing in CR-MANET. , 2013, , .		0
38	WiFi-BA: Choosing arbitration over backoff in high speed multicarrier wireless networks. , 2013, , .		23
39	Dynamic channel bonding in multicarrier wireless networks. , 2013, , .		5
40	TAS-MAC: A traffic-adaptive synchronous MAC protocol for wireless sensor networks. , 2013, , .		5
41	Controlling aerial maneuvering of a miniature jumping robot using its tail. , 2013, , .		17
42	A single motor actuated miniature steerable jumping robot. , 2012, , .		6
43	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
44	Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 1720-1733.	5.8	70
45	Multisource Video On-Demand Streaming in Wireless Mesh Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1800-1813.	3.8	10
46	Mining frequent partial periodic patterns in spectrum usage data. , 2012, , .		1
47	DBLA: Distributed block learning algorithm for channel selection in Cognitive Radio Networks. , 2012, , .		1
48	Wireless Spectrum Occupancy Prediction Based on Partial Periodic Pattern Mining. , 2012, , .		6
49	Leveraging Height in a Jumping Sensor Network to Extend Network Coverage. IEEE Transactions on Wireless Communications, 2012, 11, 1840-1849.	9.2	13
50	Exploiting cooperation for delay optimization in cognitive networks. , 2012, , .		3
51	Efficient link-heterogeneous multicast for wireless mesh networks. Wireless Networks, 2012, 18, 605-620.	3.0	11
52	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
53	Distributed learning approach for channel selection in Cognitive Radio Networks. , 2011, , .		1
54	Efficient Opportunistic Multicast via Tree Backbone for Wireless Mesh Networks. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
55	Multi-path routing and rate allocation for multi-source video on-demand streaming in wireless mesh networks. , 2011, , .		19
56	Channel allocation in multi-channel wireless mesh networks. Computer Communications, 2011, 34, 803-815.	5.1	45
57	Maintaining source privacy under eavesdropping and node compromise attacks. , 2011, , .		19
58	Development of a controllable and continuous jumping robot. , 2011, , .		31
59	SADV: Static-Node-Assisted Adaptive Data Dissemination in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 2445-2455.	6.3	103
60	Using mobile beacons to locate sensors in obstructed environments. Journal of Parallel and Distributed Computing, 2010, 70, 644-656.	4.1	26
61	ILBO: Balance Inbound Traffic Dynamically in Multihomed Stub Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1561-1572.	5.6	2
62	Design and testing of a controllable miniature jumping robot. , 2010, , .		10
63	Routing and spectrum allocation for video on-demand streaming in cognitive wireless mesh networks. , 2010, , .		8
64	Routing for minimum length schedule in multi-channel TDMA based wireless mesh networks. , 2010, , .		2
65	Efficient Multicast Algorithms for Multichannel Wireless Mesh Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 86-99.	5.6	101
66	RC-MAC: A receiver-centric medium access control protocol for wireless sensor networks. , 2010, , .		23
67	Hybrid multi-channel multi-radio wireless mesh networks. , 2009, , .		14
68	Efficient multicast for link-heterogeneous wireless mesh networks. , 2009, , .		0
69	CENDA: Camouflage Event Based Malicious Node Detection Architecture. , 2009, , .		3
70	Energy Balancing Hopping Sensor Network Model to Maximize Coverage. , 2009, , .		5
71	SOLONet: Sub-optimal location-aided overlay network for MANETs. Wireless Networks, 2008, 14, 415-433.	3.0	12
72	Resource Allocation Using Multiple Edge-Sharing Multicast Trees. IEEE Transactions on Vehicular Technology, 2008, 57, 3178-3186.	6.3	6

#	ARTICLE	IF	CITATIONS
73	Inbound Traffic Load Balancing in BGP Multi-homed Stub Networks. , 2008, , .		2
74	Securing Sensor Nodes Against Side Channel Attacks. , 2008, , .		21
75	Channel assignment with partially overlapping channels in wireless mesh networks. , 2008, , .		31
76	Defending P2Ps from Overlay Flooding-based DDoS. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	4
77	Multicast Algorithms for Multi-Channel Wireless Mesh Networks. , 2007, , .		85
78	An Effective P2P Search Scheme to Exploit File Sharing Heterogeneity. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 145-157.	5.6	27
79	Improving Routing Quality of Greedy Forwarding in Wireless Networks. IEEE International Workshop on Quality of Service, 2007, , .	0.0	2
80	Building a Scalable Bipartite P2P Overlay Network. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1296-1306.	5.6	94
81	A design of overlay anonymous multicast protocol. , 2006, , .		3
82	Virtual Ruler: Mobile Beacon Based Distance Measurements for Indoor Sensor Localization. , 2006, , .		7
83	Hybrid Periodical Flooding in Unstructured Peer-to-Peer Networks. , 2006, , 573-591.		15
84	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
85	Adaptively Routing P2P Queries Using Association Analysis. , 2006, , .		5
86	Improving Query Response Delivery Quality in Peer-to-Peer Systems. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1335-1347.	5.6	9
87	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
88	Location awareness in unstructured peer-to-peer systems. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 163-174.	5.6	142
89	Dynamic layer management in superpeer architectures. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 1078-1091.	5.6	80
90	Building Efficient Overlays. Journal of Grid Computing, 2004, 2, 183-192.	3.9	1

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91	Dynamic layer management in super-peer architectures. , 2004, , .		1
92	Parallel network RAM: effectively utilizing global cluster memory for large data-intensive parallel programs. , 2004, , .		28
93	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
94	Auto-FCD: efficiently parallelizing CFD applications on clusters. , 2003, , .		2
95	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
96	AOTO: adaptive overlay topology optimization in unstructured P2P systems. , 0, , .		17
97	Mutual anonymity protocols for hybrid peer-to-peer systems. , 0, , .		5
98	Location-aware topology matching in P2P systems. , 0, , .		70
99	Approaching Optimal Peer-to-Peer Overlays. , 0, , .		1
100	Resource allocation using multiple edgesharing multicast trees. , 0, , .		2
101	Anonymous Content Sharing in Ad Hoc Networks. , 0, , .		2
102	hiREP: Hierarchical Reputation Management for Peer-to-Peer Systems. , 0, , .		8