

# Xiang-Yang Li

## List of Publications by Year in descending order

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57  
papers

4,578  
citations

346980

22  
h-index

406436

35  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3755  
citing authors

#	ARTICLE	IF	CITATIONS
1	SCsec: A Secure Near Field Communication System via Screen Camera Communication. IEEE Transactions on Mobile Computing, 2019, , 1-1.	3.9	10
2	Diamond: Nesting the Data Center Network With Wireless Rings in 3-D Space. IEEE/ACM Transactions on Networking, 2018, 26, 145-160.	2.6	20
3	One More Tag Enables Fine-Grained RFID Localization and Tracking. IEEE/ACM Transactions on Networking, 2018, 26, 161-174.	2.6	159
4	S2M: A Lightweight Acoustic Fingerprints-Based Wireless Device Authentication Protocol. IEEE Internet of Things Journal, 2017, 4, 88-100.	5.5	144
5	Principles of the Complete Voronoi Diagram Localization. IEEE Transactions on Mobile Computing, 2016, 15, 2048-2063.	3.9	4
6	Weighted Connected Dominating Set. , 2016, , 2359-2363.		1
7	Beyond one-dollar mouse: A battery-free device for 3D human-computer interaction via RFID tags. , 2015, , .		33
8	Swadloon: Direction Finding and Indoor Localization Using Acoustic Signal by Shaking Smartphones. IEEE Transactions on Mobile Computing, 2015, 14, 2145-2157.	3.9	49
9	Wireless Device Authentication Using Acoustic Hardware Fingerprints. Lecture Notes in Computer Science, 2015, , 193-204.	1.0	8
10	GasNet: Efficient Residential Building Gas Leak Monitoring via Opportunistic Networking. , 2014, , .		0
11	How to crowdsource tasks truthfully without sacrificing utility: Online incentive mechanisms with budget constraint. , 2014, , .		298
12	Privacy-preserving high-quality map generation with participatory sensing. , 2014, , .		41
13	Electronic frog eye: Counting crowd using WiFi. , 2014, , .		292
14	Tagoram. , 2014, , .		616
15	In-Network Estimation with Delay Constraints in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 368-380.	4.0	15
16	Localization of Wireless Sensor Networks in the Wild: Pursuit of Ranging Quality. IEEE/ACM Transactions on Networking, 2013, 21, 311-323.	2.6	100
17	Finding Best and Worst k-Coverage Paths in Multihop Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 2396-2406.	4.0	26
18	Efficient Aggregation Scheduling in Multihop Wireless Sensor Networks with SINR Constraints. IEEE Transactions on Mobile Computing, 2013, 12, 2518-2528.	3.9	26

#	ARTICLE	IF	CITATIONS
19	SmartLoc. , 2013, , .		40
20	Rejecting the attack: Source authentication for Wi-Fi management frames using CSI Information. , 2013, , .		73
21	WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. IEEE Transactions on Mobile Computing, 2012, 11, 1692-1705.	3.9	23
22	Efficient Scheduling for Periodic Aggregation Queries in Multihop Sensor Networks. IEEE/ACM Transactions on Networking, 2012, 20, 690-698.	2.6	54
23	Providing and finding k-road-coverage efficiently in wireless sensor networks. Wireless Communications and Mobile Computing, 2012, 12, 1053-1065.	0.8	7
24	Energy-Efficient Opportunistic Routing in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1934-1942.	4.0	173
25	A Delay-Efficient Algorithm for Data Aggregation in Multihop Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 163-175.	4.0	182
26	Complexity of Data Collection, Aggregation, and Selection for Wireless Sensor Networks. IEEE Transactions on Computers, 2011, 60, 386-399.	2.4	65
27	Multicast Capacity of Wireless Ad Hoc Networks. IEEE/ACM Transactions on Networking, 2009, 17, 950-961.	2.6	110
28	Optimal k-support coverage paths in wireless sensor networks. , 2009, , .		0
29	Canopy closure estimates with GreenOrbs. , 2009, , .		254
30	Gateway Placement for Throughput Optimization in Wireless Mesh Networks. Mobile Networks and Applications, 2008, 13, 198-211.	2.2	82
31	Interference-Aware Joint Routing and TDMA Link Scheduling for Static Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1709-1726.	4.0	76
32	Efficient Algorithms for p-Self-Protection Problem in Static Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1426-1438.	4.0	18
33	Weighted Connected Dominating Set. , 2008, , 1020-1023.		0
34	Efficient self protection algorithms for static wireless sensor networks. , 2007, , .		3
35	Efficient Delaunay-based localized routing for wireless sensor networks. International Journal of Communication Systems, 2007, 20, 767-789.	1.6	25
36	Efficient interference-aware TDMA link scheduling for static wireless networks. , 2006, , .		181

#	ARTICLE	IF	CITATIONS
37	Efficient distributed low-cost backbone formation for wireless networks. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 681-693.	4.0	54
38	Localized Construction of Bounded Degree and Planar Spanner for Wireless Ad Hoc Networks. Mobile Networks and Applications, 2006, 11, 161-175.	2.2	51
39	Localized Construction of Low Weighted Structure and Its Applications in Wireless Ad Hoc Networks. Wireless Networks, 2005, 11, 697-708.	2.0	7
40	Localized Algorithms for Energy Efficient Topology in Wireless Ad Hoc Networks. Mobile Networks and Applications, 2005, 10, 911-923.	2.2	19
41	Distributed low-cost backbone formation for wireless ad hoc networks. , 2005, , .		77
42	Interference-aware topology control for wireless sensor networks. , 2005, , .		23
43	Theoretically Good Distributed CDMA/OVSF Code Assignment for Wireless Ad Hoc Networks. Lecture Notes in Computer Science, 2005, , 126-135.	1.0	12
44	Localized algorithms for energy efficient topology in wireless ad hoc networks. , 2004, , .		75
45	EFFICIENT CONSTRUCTION OF LOW WEIGHTED BOUNDED DEGREE PLANAR SPANNER. International Journal of Computational Geometry and Applications, 2004, 14, 69-84.	0.3	31
46	Fault tolerant deployment and topology control in wireless ad hoc networks. Wireless Communications and Mobile Computing, 2004, 4, 109-125.	0.8	26
47	Applications of $k$ -local MST for topology control and broadcasting in wireless ad hoc networks. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 1057-1069.	4.0	55
48	Coverage in wireless ad hoc sensor networks. IEEE Transactions on Computers, 2003, 52, 753-763.	2.4	379
49	Localized Delaunay triangulation with application in ad hoc wireless networks. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 1035-1047.	4.0	170
50	DISTRIBUTED SPANNERS WITH BOUNDED DEGREE FOR WIRELESS AD HOC NETWORKS. International Journal of Foundations of Computer Science, 2003, 14, 183-200.	0.8	43
51	Fault tolerant deployment and topology control in wireless networks. , 2003, , .		127
52	Localized construction of bounded degree and planar spanner for wireless ad hoc networks. , 2003, , .		63
53	Approximate MST for UDG Locally. Lecture Notes in Computer Science, 2003, , 364-373.	1.0	22
54	Efficient Construction of Low Weight Bounded Degree Planar Spanner. Lecture Notes in Computer Science, 2003, , 374-384.	1.0	14

#	ARTICLE	IF	CITATIONS
55	Simple heuristics and PTASs for intersection graphs in wireless ad hoc networks. , 2002, , .		13
56	Distributed spanner with bounded degree for wireless ad hoc networks. , 2002, , .		22
57	Distributed construction of a planar spanner and routing for ad hoc wireless networks. , 0, , .		87