Bin Xiao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171 papers	3,340 citations	28 h-index	50 g-index
199 ext. papers	4,154 ext. citations	4.2 avg, IF	5.85 L-index

#	Paper	IF	Citations
171	Multi-objective Optimization for Joint Task Offloading, Power Assignment, and Resource Allocation in Mobile Edge Computing. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	3
170	Pistis: Issuing Trusted and Authorized Certificates With Distributed Ledger and TEE. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 1-1	3.7	1
169	B-DNS: A Secure and Efficient DNS Based on the Blockchain Technology. *IEEE Transactions on Network Science and Engineering*, **2021**, 8, 1674-1686	4.9	4
168	Robust Computation Offloading and Resource Scheduling in Cloudlet-Based Mobile Cloud Computing. *IEEE Transactions on Mobile Computing*, **2021**, 20, 2025-2040	4.6	18
167	Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *IEEE Internet of Things Journal*, **2021**, 8, 12782-12791	10.7	2
166	Blockchain-Enabled Trustworthy Group Communications in UAV Networks. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 4118-4130	6.1	16
165	A Utility Model for Photo Selection in Mobile Crowdsensing. *IEEE Transactions on Mobile Computing*, **2021**, 20, 48-62	4.6	8
164	Resource Allocation and Consensus of Blockchains in Pervasive Edge Computing Environments. *IEEE Transactions on Mobile Computing*, **2021**, 1-1	4.6	6
163	Deep Learning-based Physical-Layer Secret Key Generation for FDD Systems. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	3
162	VQL: Efficient and Verifiable Cloud Query Services for Blockchain Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 1-1	3.7	13
161	. *IEEE/ACM Transactions on Networking*, **2020**, 28, 1419-1433	3.8	16
160	Time-Efficient Target Tags Information Collection in Large-Scale RFID Systems. *IEEE Transactions on Mobile Computing*, **2020**, 1-1	4.6	17
159	A Survey of IoT Applications in Blockchain Systems. *ACM Computing Surveys*, **2020**, 53, 1-32	13.4	91
158	Beam-Domain Secret Key Generation for Multi-User Massive MIMO Networks **2020**,		1
157	G-PBFT: A Location-based and Scalable Consensus Protocol for IoT-Blockchain Applications **2020**,		17
156	RLLL: Accurate Relative Localization of RFID Tags with Low Latency **2020**,		3
155	Time Efficient Tag Searching in Large-scale RFID Systems: A Compact Exclusive Validation Method. *IEEE Transactions on Mobile Computing*, **2020**, 1-1	4.6	9

154	Towards a Stable and Truthful Incentive Mechanism for Task Delegation in Hierarchical Crowdsensing **2020**,		1
153	ClickGuard: Exposing Hidden Click Fraud via Mobile Sensor Side-channel Analysis **2020**,		3
152	. *IEEE Wireless Communications*, **2020**, 27, 155-161	13.4	4
151	Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 2638-2649	7.3	8
150	. *IEEE Transactions on Mobile Computing*, **2020**, 19, 2344-2357	4.6	3
149	Multi-User Offloading Game Strategy in OFDMA Mobile Cloud Computing System. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 12190-12201	6.8	19
148	Power Control Identification: A Novel Sybil Attack Detection Scheme in VANETs Using RSSI. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 2588-2602	14.2	18
147	DS-Cache: A Refined Directory Entry Lookup Cache with Prefix-Awareness for Mobile Devices **2019**,		1
146	Physical Layer Key Generation in 5G and Beyond Wireless Communications: Challenges and Opportunities. *Entropy*, **2019**, 21,	2.8	29
145	. *IEEE/ACM Transactions on Networking*, **2019**, 27, 948-961	3.8	14
144	Energy-Efficient Dynamic Computation Offloading and Cooperative Task Scheduling in Mobile Cloud Computing. *IEEE Transactions on Mobile Computing*, **2019**, 18, 319-333	4.6	165
143	Multi-Channel Based Sybil Attack Detection in Vehicular Ad Hoc Networks Using RSSI. *IEEE Transactions on Mobile Computing*, **2019**, 18, 362-375	4.6	39
142	. *IEEE Transactions on Mobile Computing*, **2019**, 1-1	4.6	4
141	VQL: Providing Query Efficiency and Data Authenticity in Blockchain Systems **2019**,		14
140	SDN-based Traffic Matrix Estimation in Data Center Networks Through Large Size Flow Identification. *IEEE Transactions on Cloud Computing*, **2019**, 1-1	3.3	5
139	Resource Allocation and Consensus on Edge Blockchain in Pervasive Edge Computing Environments **2019**,		21
138	Power Adjusting and Bribery Racing **2019**,		22
137	When Urban Safety Index Inference Meets Location-Based Data. *IEEE Transactions on Mobile Computing*, **2019**, 18, 2701-2713	4.6	3

136	. *IEEE/ACM Transactions on Networking*, **2019**, 27, 159-172	3.8	14
135	Security Threats in the Data Plane of Software-Defined Networks. *IEEE Network*, **2018**, 32, 108-113	11.4	24
134	Energy Efficiency Maximization in Mobile Wireless Energy Harvesting Sensor Networks. *IEEE Transactions on Mobile Computing*, **2018**, 17, 1524-1537	4.6	51
133	Resource Allocation and Admission Control for an Energy Harvesting Cooperative OFDMA Network. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 4071-4086	6.8	9
132	Relay Selection and Power Allocation for Cooperative Communication Networks With Energy Harvesting. *IEEE Systems Journal*, **2018**, 12, 735-746	4.3	22
131	Optimal Target Secrecy Rate and Power Allocation Policy for a SWIPT System Over a Fading Wiretap Channel. *IEEE Systems Journal*, **2018**, 12, 3291-3302	4.3	8
130	Software-Defined Firewall **2018**,		3
129	Vehicle Safety Improvement through Deep Learning and Mobile Sensing. *IEEE Network*, **2018**, 32, 28-33	11.4	79
128	Indoor Floor Plan Construction Through Sensing Data Collected From Smartphones. *IEEE Internet of Things Journal*, **2018**, 5, 4351-4364	10.7	9
127	CrowdGIS: Updating Digital Maps via Mobile Crowdsensing. *IEEE Transactions on Automation Science and Engineering*, **2018**, 15, 369-380	4.9	19
126	Interest Tree Based Information Dissemination via Vehicular Named Data Networking **2018**,		4
125	From Uncertain Photos to Certain Coverage: a Novel Photo Selection Approach to Mobile Crowdsensing **2018**,		12
124	New Mobility-Aware Application Offloading Design with Low Delay and Energy Efficiency **2018**,		1
123	Parallel Hyper-Heuristic Algorithm for Multi-Objective Route Planning in a Smart City. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 10307-10318	6.8	26
122	RFID Estimation With Blocker Tags. *IEEE/ACM Transactions on Networking*, **2017**, 25, 224-237	3.8	36
121	. *IEEE Transactions on Mobile Computing*, **2017**, 16, 2792-2805	4.6	9
120	CloudBot: Advanced mobile botnets using ubiquitous cloud technologies. *Pervasive and Mobile Computing*, **2017**, 41, 270-285	3.5	8
119	You Can Clone But You Cannot Hide: A Survey of Clone Prevention and Detection for RFID. *IEEE Communications Surveys and Tutorials*, **2017**, 19, 1682-1700	37.1	19

118	Voiceprint: A Novel Sybil Attack Detection Method Based on RSSI for VANETs **2017**,		19
117	Detecting Rogue AP with the Crowd Wisdom **2017**,		9
116	**2017**,		9
115	U-safety: Urban safety analysis in a smart city **2017**,		3
114	An efficient learning-based approach to multi-objective route planning in a smart city **2017**,		7
113	Dynamic Grouping in RFID Systems **2017**,		4
112	SCoP: Smartphone energy saving by merging push services in Fog computing **2017**,		8
111	Smartphone-assisted energy efficient data communication for wearable devices. *Computer Communications*, **2017**, 105, 33-43	5.1	10
110	Exploring Tag Distribution in Multi-Reader RFID Systems. *IEEE Transactions on Mobile Computing*, **2017**, 16, 1300-1314	4.6	8
109	Security Analysis of a Novel Artificial Randomness Approach for Fast Key Generation **2017**,		12
108	Collision-Aware Churn Estimation in Large-Scale Dynamic RFID Systems. *IEEE/ACM Transactions on Networking*, **2017**, 25, 392-405	3.8	5
107	Who stole my cheese?: Verifying intactness of anonymous RFID systems. *Ad Hoc Networks*, **2016**, 36, 111-126	4.8	3
106	Energy-efficient dynamic offloading and resource scheduling in mobile cloud computing **2016**,		187
105	PLAT: A Physical-Layer Tag Searching Protocol in Large RFID Systems **2016**,		6
104	Smartphone-assisted smooth live video broadcast on wearable cameras **2016**,		2
103	Fast Collection of Data in Sensor-Augmented RFID Networks **2016**,		3
102	Efficient Physical-Layer Unknown Tag Identification in Large-scale RFID Systems. *IEEE Transactions on Communications*, **2016**, 1-1	6.9	12
101	. *IEEE/ACM Transactions on Networking*, **2016**, 1-14	3.8	13

100	Flexible and Time-Efficient Tag Scanning with Handheld Readers. *IEEE Transactions on Mobile Computing*, **2016**, 15, 840-852	4.6	39
99	Efficient RFID Grouping Protocols. *IEEE/ACM Transactions on Networking*, **2016**, 24, 3177-3190	3.8	21
98	MUSE: Towards Robust and Stealthy Mobile Botnets via Multiple Message Push Services. *Lecture Notes in Computer Science*, **2016**, 20-39	0.9	4
97	Let's work together: Fast tag identification by interference elimination for multiple RFID readers **2016**,		8
96	Fast RFID Polling Protocols **2016**,		11
95	Energy-Efficient Cooperative Tfor Simultaneous Wireless Information and Power Transfer in Clustered Wireless Sensor Networks. *IEEE Transactions on Communications*, **2015**, 63, 4405-4417	6.9	87
94	The Design and Implementations of Locality-Aware Approximate Queries in Hybrid Storage Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 3194-3207	3.7	5
93	Fast RFID grouping protocols **2015**,		34
92	Energy-efficient big data storage and retrieval for wireless sensor networks with nonuniform node distribution. *Concurrency Computation Practice and Experience*, **2015**, 27, 5765-5779	1.4	14
91	Unknown Tag Identification in Large RFID Systems: An Efficient and Complete Solution. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 1775-1788	3.7	50
90	STEP: A Time-Efficient Tag Searching Protocol in Large RFID Systems. *IEEE Transactions on Computers*, **2015**, 64, 3265-3277	2.5	25
89	Make smartphones last a day: Pre-processing based computer vision application offloading **2015**,		9
88	RFID cardinality estimation with blocker tags **2015**,		26
87	Efficient distributed query processing in large RFID-enabled supply chains **2014**,		34
86	Efficient Unknown Tag Identification Protocols in Large-Scale RFID Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 3145-3155	3.7	45
85	Approaching the time lower bound on cloned-tag identification for large RFID systems. *Ad Hoc Networks*, **2014**, 13, 271-281	4.8	18
84	Iterative Localization of Wireless Sensor Networks: An Accurate and Robust Approach. *IEEE/ACM Transactions on Networking*, **2014**, 22, 608-621	3.8	15
83	Intactness verification in anonymous RFID systems **2014**,		2

82	Fast Counting the Key Tags in Anonymous RFID Systems **2014**,		19
81	Modeling and Defending against Adaptive BitTorrent Worms in Peer-to-Peer Networks. *ACM Transactions on Autonomous and Adaptive Systems*, **2014**, 9, 1-17	1.2	
80	Efficient Detection of Cloned Attacks for Large-Scale RFID Systems. *Lecture Notes in Computer Science*, **2014**, 85-99	0.9	4
79	Efficient protocol design for dynamic tag population monitoring in large-scale radio frequency identification systems. *Concurrency Computation Practice and Experience*, **2013**, 25, 2080-2097	1.4	2
78	Fast dimension reduction for document classification based on imprecise spectrum analysis. *Information Sciences*, **2013**, 222, 147-162	7.7	14
77	Advanced technologies and applications for Highly-Reliable Cyber Physical System (HRCPS). *Journal of Supercomputing*, **2013**, 66, 1-3	2.5	14
76	Modeling and Optimal Design of Linear Network Coding for Secure Unicast with Multiple Streams. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 2025-2035	3.7	12
75	Differential estimation in dynamic RFID systems **2013**,		32
74	Less is More: Efficient RFID-Based 3D Localization **2013**,		10
73	A bottom-up model for heterogeneous BitTorrent systems. *Journal of Parallel and Distributed Computing*, **2013**, 73, 1116-1126	4.4	
72	Detecting Sybil attacks in VANETs. *Journal of Parallel and Distributed Computing*, **2013**, 73, 746-756	4.4	116
71	Unreconciled Collisions Uncover Cloning Attacks in Anonymous RFID Systems. *IEEE Transactions on Information Forensics and Security*, **2013**, 8, 429-439	8	28
70	A Fast Approach to Unknown Tag Identification in Large Scale RFID Systems **2013**,		6
69	Robust localization against outliers in wireless sensor networks. *ACM Transactions on Sensor Networks*, **2013**, 9, 1-26	2.9	16
68	**2013**,		1
67	NEST: Locality-aware approximate query service for cloud computing **2013**,		16
66	Understanding and Improving Piece-Related Algorithms in the BitTorrent Protocol. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 2526-2537	3.7	5
65	ENDA **2013**,		28

64	Locality-Sensitive Bloom Filter for Approximate Membership Query. *IEEE Transactions on Computers* , **2012**, 61, 817-830	2.5	39
63	Efficient Misplaced-Tag Pinpointing in Large RFID Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2012**, 23, 2094-2106	3.7	34
62	Toward collinearity-aware and conflict-friendly localization for wireless sensor networks. *Computer Communications*, **2012**, 35, 1549-1560	5.1	12
61	VicSifter: A Collaborative DDoS Detection System with Lightweight Victim Identification **2012**,		5
60	Fast cloned-tag identification protocols for large-scale RFID systems **2012**,		10
59	Complete and fast unknown tag identification in large RFID systems **2012**,		25
58	Anchor supervised distance estimation in anisotropic wireless sensor networks **2011**,		14
57	Signature Tree Generation for Polymorphic Worms. *IEEE Transactions on Computers*, **2011**, 60, 565-579	2.5	28
56	Prediction-based data aggregation in wireless sensor networks: Combining grey model and Kalman Filter. *Computer Communications*, **2011**, 34, 793-802	5.1	153
55	Efficient Monitoring of Dynamic Tag Populations in RFID Systems **2011**,		9
54	Efficient pinpointing of misplaced tags in large RFID systems **2011**,		13
53	EDJam: Effective Dynamic Jamming against IEEE 802.15.4-Compliant Wireless Personal Area Networks **2011**,		5
52	Efficient information collection protocols for sensor-augmented RFID networks **2011**,		89
51	Optimal Design of Linear Network Coding for information theoretically secure unicast **2011**,		10
50	Using Parallel Bloom Filters for Multiattribute Representation on Network Services. *IEEE Transactions on Parallel and Distributed Systems*, **2010**, 21, 20-32	3.7	30
49	Fast dimension reduction for document classification based on imprecise spectrum analysis **2010**,		2
48	Multihop Range-Free Localization in Anisotropic Wireless Sensor Networks: A Pattern-Driven Scheme. *IEEE Transactions on Mobile Computing*, **2010**, 9, 1592-1607	4.6	69
47	Reliable Anchor-Based Sensor Localization in Irregular Areas. *IEEE Transactions on Mobile Computing*, **2010**, 9, 60-72	4.6	72

46	Optimal Linear Network Coding Design for Secure Unicast with Multiple Streams **2010**,		17
45	Achieving optimal data storage position in wireless sensor networks. *Computer Communications*, **2010**, 33, 92-102	5.1	21
44	PIVOT: An adaptive information discovery framework for computational grids. *Information Sciences*, **2010**, 180, 4543-4556	7.7	7
43	Modeling and analysis of self-stopping BTWorms using dynamic hit list in P2P networks **2009**,		2
42	Using a bioinformatics approach to generate accurate exploit-based signatures for polymorphic worms. *Computers and Security*, **2009**, 28, 827-842	4.9	21
41	**2009**,		3
40	BR-Tree: A Scalable Prototype for Supporting Multiple Queries of Multidimensional Data. *IEEE Transactions on Computers*, **2009**, 58, 1585-1598	2.5	18
39	A novel dual-key management protocol based on a hierarchical multicast infrastructure in mobile internet. *International Journal of Ad Hoc and Ubiquitous Computing*, **2009**, 4, 183	0.7	4
38	Concept, Characteristics and Defending Mechanism of Worms. *IEICE Transactions on Information and Systems*, **2009**, E92-D, 799-809	0.6	5
37	Distributed Localization Using a Moving Beacon in Wireless Sensor Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2008**, 19, 587-600	3.7	78
36	Bounded LSH for Similarity Search in Peer-to-Peer File Systems **2008**,		17
35	An autonomous defense against SYN flooding attacks: Detect and throttle attacks at the victim side independently. *Journal of Parallel and Distributed Computing*, **2008**, 68, 456-470	4.4	11
34	Dynamic SPT update for multiple link state decrements in network routing. *Journal of Supercomputing*, **2008**, 46, 237-256	2.5	2
33	Adaptive Information Brokerage in Wireless Sensor Networks. *Ruan Jian Xue Bao/Journal of Software*, **2008**, 19, 103-115		
32	An efficient algorithm for dynamic shortest path tree update in network routing. *Journal of Communications and Networks*, **2007**, 9, 499-510	4.1	12
31	Analysis and algorithms design for the partition of large-scale adaptive mobile wireless networks. *Computer Communications*, **2007**, 30, 1899-1912	5.1	2
30	CHEMAS: Identify suspect nodes in selective forwarding attacks. *Journal of Parallel and Distributed Computing*, **2007**, 67, 1218-1230	4.4	99
29	A Walking Beacon-Assisted Localization in Wireless Sensor Networks **2007**,		23

28	Special section: Security on grids and distributed systems. *Future Generation Computer Systems*, **2007**, 23, 774-775	7.5	3
27	Generating Simplified Regular Expression Signatures for Polymorphic Worms. *Lecture Notes in Computer Science*, **2007**, 478-488	0.9	5
26	Loop scheduling with timing and switching-activity minimization for VLIW DSP. *ACM Transactions on Design Automation of Electronic Systems*, **2006**, 11, 165-185	1.5	15
25	Optimizing Address Assignment and Scheduling for DSPs With Multiple Functional Units. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2006**, 53, 976-980		6
24	Detecting selective forwarding attacks in wireless sensor networks **2006**,		22
23	. *IEEE Transactions on Computers*, **2006**, 55, 443-453	2.5	55
22	Detection and localization of sybil nodes in VANETs **2006**,		120
21	Algorithms and analysis of scheduling for loops with minimum switching. *International Journal of Computational Science and Engineering*, **2006**, 2, 88	0.4	8
20	A novel approach to detecting DDoS Attacks at an Early Stage. *Journal of Supercomputing*, **2006**, 36, 235-248	2.5	15
19	Distributed Proximity-Aware Peer Clustering in BitTorrent-Like Peer-to-Peer Networks. *Lecture Notes in Computer Science*, **2006**, 375-384	0.9	
18	A Novel Energy-Efficient Backbone for Sensor Networks. *Lecture Notes in Computer Science*, **2006**, 600-611	0.9	
17	A Multi-attribute Data Structure with Parallel Bloom Filters for Network Services. *Lecture Notes in Computer Science*, **2006**, 277-288	0.9	10
16	**2005**,		1
15	On Designing a Novel PI Controller for AQM Routers Supporting TCP Flows. *Lecture Notes in Computer Science*, **2005**, 991-1002	0.9	
14	Detecting SYN Flooding Attacks Near Innocent Side. *Lecture Notes in Computer Science*, **2005**, 443-452	0.9	2
13	Dynamic update of shortest path tree in OSPF **2004**,		4
12	Approximation algorithms design for disk partial covering problem **2004**,		6
11	Efficient variable partitioning and scheduling for DSP processors with multiple memory modules. *IEEE Transactions on Signal Processing*, **2004**, 52, 1090-1099	4.8	15

10	Loop Scheduling for Real-Time DSPs with Minimum Switching Activities on Multiple-Functional-Unit Architectures. *Lecture Notes in Computer Science*, **2004**, 53-63	0.9	1
9	A Novel Technique for Detecting DDoS Attacks at Its Early Stage. *Lecture Notes in Computer Science*, **2004**, 825-834	0.9	0
8	Optimizing Address Assignment for Scheduling Embedded DSPs. *Lecture Notes in Computer Science*, **2004**, 64-73	0.9	1
7	Maintaining Comprehensive Resource Availability in P2P Networks. *Lecture Notes in Computer Science*, **2004**, 543-550	0.9	6
6	Code size reduction technique and implementation for software-pipelined DSP applications. *Transactions on Embedded Computing Systems*, **2003**, 2, 590-613	1.8	18
5	Design space minimization with timing and code size optimization for embedded DSP **2003**,		2
4	Minimizing Energy via Loop Scheduling and DVS for Multi-Core Embedded Systems		5
3	Switching-activity minimization on instruction-level loop for VLIW DSP applications		1
2	Dynamic shortest path tree update for multiple link state decrements		2
1	An active detecting method against SYN flooding attack		4