

Mingyan Liu

List of Publications by Citations

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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.

97
papers

1,838
citations

22
h-index

41
g-index

119
ext. papers

2,235
ext. citations

5
avg, IF

5.08
L-index

#	Paper	IF	Citations
97	Optimality of Myopic Sensing in Multichannel Opportunistic Access. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 4040-4050	2.8	229
96	Mining Spectrum Usage Data: A Large-Scale Spectrum Measurement Study. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 1033-1046	4.6	131
95	Data-gathering wireless sensor networks: organization and capacity. <i>Computer Networks</i> , 2003 , 43, 519-537	3.7	121
94	Analysis of energy consumption and lifetime of heterogeneous wireless sensor networks		111
93	Online Learning of Rested and Restless Bandits. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 5588-5611	5.11	73
92	A Wireless Soil Moisture Smart Sensor Web Using Physics-Based Optimal Control: Concept and Initial Demonstrations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 522-535	4.7	70
91	Optimal Channel Probing and Transmission Scheduling for Opportunistic Spectrum Access. <i>IEEE/ACM Transactions on Networking</i> , 2009 , 17, 1805-1818	3.8	66
90	A general framework to construct stationary mobility models for the simulation of mobile networks. <i>IEEE Transactions on Mobile Computing</i> , 2006 , 5, 860-871	4.6	66
89	Atomic Congestion Games on Graphs and Their Applications in Networking. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 1541-1552	3.8	64
88	Profit Incentive in Trading Nonexclusive Access on a Secondary Spectrum Market Through Contract Design. <i>IEEE/ACM Transactions on Networking</i> , 2014 , 22, 1190-1203	3.8	60
87	Online learning in opportunistic spectrum access: A restless bandit approach 2011 ,		52
86	Controlled Flooding Search in a Large Network. <i>IEEE/ACM Transactions on Networking</i> , 2007 , 15, 436-449	3.8	52
85	Networked Computing in Wireless Sensor Networks for Structural Health Monitoring. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 1203-1216	3.8	39
84	Mitigating Large Errors in WiFi-Based Indoor Localization for Smartphones. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 6246-6257	6.8	38
83	Randomly Duty-cycled Wireless Sensor Networks: Dynamics of Coverage. <i>IEEE Transactions on Wireless Communications</i> , 2006 , 5, 3182-3192	9.6	36
82	When simplicity meets optimality: Efficient transmission power control with stochastic energy harvesting 2013 ,		33
81	. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2226-2239	8	30

80	Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2013 , 13, 2009-2019	4	30
79	Price of Anarchy for Congestion Games in Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 3778-3787	9.6	27
78	Online algorithms for the multi-armed bandit problem with Markovian rewards 2010 ,		27
77	Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 1304-1316	4.6	23
76	Measurement Scheduling for Soil Moisture Sensing: From Physical Models to Optimal Control. <i>Proceedings of the IEEE</i> , 2010 , 98, 1918-1933	14.3	22
75	Approximately optimal adaptive learning in opportunistic spectrum access 2012 ,		21
74	Optimal controlled flooding search in a large wireless network		20
73	Dynamic pricing of power in Smart-Grid networks 2012 ,		19
72	Price of Anarchy for Cognitive MAC Games 2009 ,		19
71	Efficient Sensor Fault Detection Using Combinatorial Group Testing 2013 ,		17
70	Risky business: Fine-grained data breach prediction using business profiles. <i>Translational Research in Oral Oncology</i> , 2016 , 2, 15-28	3.8	16
69	On the optimality of an index policy for bandwidth allocation with delayed state observation and differentiated services		16
68	Optimal Sleep Scheduling for a Wireless Sensor Network Node 2006 ,		15
67	Fixed point approximation for multirate multihop loss networks with state-dependent routing. <i>IEEE/ACM Transactions on Networking</i> , 2004 , 12, 361-374	3.8	14
66	. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 2790-2803	8	14
65	Optimal Competitive Algorithms for Opportunistic Spectrum Access. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1183-1192	14.2	13
64	Evaluation of performance enhancing proxies in internet over satellite. <i>International Journal of Communication Systems</i> , 2003 , 16, 513-534	1.7	13
63	Provision of Public Goods on Networks: On Existence, Uniqueness, and Centralities. <i>IEEE Transactions on Network Science and Engineering</i> , 2018 , 5, 225-236	4.9	12

62	Energy-Efficient Transmission Scheduling With Strict Underflow Constraints. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1344-1367	2.8	12
61	Recycled ADMM: Improve Privacy and Accuracy with Less Computation in Distributed Algorithms 2018 ,		10
60	Adaptive learning of uncontrolled restless bandits with logarithmic regret 2011 ,		9
59	Online learning for combinatorial network optimization with restless Markovian rewards 2012 ,		9
58	To Stay or To Switch: Multiuser Multi-Channel Dynamic Access. <i>IEEE Transactions on Mobile Computing</i> , 2015 , 14, 858-871	4.6	8
57	An Online Approach to Dynamic Channel Access and Transmission Scheduling 2015 ,		8
56	To stay or to switch: Multiuser dynamic channel access 2013 ,		8
55	Hitchhike: Riding control on preambles 2014 ,		8
54	Inter-temporal incentives in security information sharing agreements 2016 ,		8
53	Perceptions and Truth: A Mechanism Design Approach to Crowd-Sourcing Reputation. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 163-176	3.8	7
52	On the uniqueness and stability of equilibria of network games 2017 ,		7
51	Exit equilibrium: Towards understanding voluntary participation in security games 2016 ,		7
50	CD-MAC: A contention detectable MAC for low duty-cycled wireless sensor networks 2015 ,		7
49	Learning in Hide-and-Seek. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 1279-1292	3.8	6
48	Data-Driven Channel Modeling Using Spectrum Measurement. <i>IEEE Transactions on Mobile Computing</i> , 2015 , 14, 1794-1805	4.6	6
47	. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 1614-1626	14.2	6
46	Modeling TCP performance with proxies. <i>Computer Communications</i> , 2004 , 27, 961-975	5.1	6
45	Recycled ADMM: Improving the Privacy and Accuracy of Distributed Algorithms. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 1723-1734	8	6

44	Profit incentive in a secondary spectrum market: A contract design approach 2013 ,		5
43	. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 2301-2311	14.2	5
42	Server allocation with delayed state observation: Sufficient conditions for the optimality of an index policy. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1693-1705	9.6	5
41	In-situ soil moisture sensing: Measurement scheduling and estimation using compressive sensing 2012 ,		5
40	Partial clustering: maintaining connectivity in a low duty-cycled dense wireless sensor network		5
39	Contract design for purchasing private data using a biased differentially private algorithm 2019 ,		4
38	Throughput Optimal Switching in Multichannel WLANs. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 2470-2482	4.6	4
37	A reputation-based contract for repeated crowdsensing with costly verification 2017 ,		4
36	2014 ,		4
35	Preference-Based Privacy Markets. <i>IEEE Access</i> , 2020 , 8, 146006-146026	3.5	4
34	Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 7360-7371	10.7	4
33	Incentivizing effort in interdependent security games using resource pooling 2019 ,		3
32	Hitchhike: A Preamble-Based Control Plane for SNR-Sensitive Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 1239-1251	9.6	3
31	Secondary User Data Capturing for Cognitive Radio Network Forensics under Capturing Uncertainty 2014 ,		3
30	Analysis of TCP transient behavior and its effect on file transfer latency		3
29	Using Private and Public Assessments in Security Information Sharing Agreements. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 1801-1814	8	3
28	A Reputation-Based Contract for Repeated Crowdsensing With Costly Verification. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 6092-6104	4.8	3
27	Distributive Model-Based Sensor Fault Diagnosis in Wireless Sensor Networks 2013 ,		2

26	Poster abstract: Pair-wise reference-free fault detection in wireless sensor networks 2012 ,		2
25	Price of anarchy of congestion games with player-specific constants 2011 ,		2
24	An Efficient and Robust Computational Framework for Studying Lifetime and Information Capacity in Sensor Networks. <i>Mobile Networks and Applications</i> , 2005 , 10, 811-824	2.9	2
23	Privacy Risk is a Function of Information Type: Learnings for the Surveillance Capitalism Age. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 3280-3296	4.8	2
22	Data Trading with a Monopoly Social Network: Outcomes Are Mostly Privacy Welfare Damaging. <i>IEEE Networking Letters</i> , 2020 , 2, 185-189	2.8	1
21	Joint control of transmission power and channel switching against adaptive jamming 2013 ,		1
20	Dynamic clock calibration via temperature measurement 2009 ,		1
19	A stochastic differential equation model for spectrum utilization 2011 ,		1
18	ZigBee Wireless Sensor Network Using Physics-Based Optimally Sampling for Soil Moisture Measurement 2011 ,		1
17	In-Situ Soil Moisture Sensing: Efficient Random Sensor Placement and Field Estimation Using Compressive Sensing 2011 ,		1
16	. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 4946-4965	2.8	1
15	An approach to rate allocation in multicast		1
14	2004 ,		1
13	Asymptotic connectivity of low duty-cycled wireless sensor networks		1
12	Data Trading with Competitive Social Platforms: Outcomes are Mostly Privacy Welfare Damaging. <i>IEEE Transactions on Network and Service Management</i> , 2020 , 1-1	4.8	1
11	Network Games with Strategic Machine Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 118-137	0.9	0
10	Designing Contracts for Trading Private and Heterogeneous Data Using a Biased Differentially Private Algorithm. <i>IEEE Access</i> , 2021 , 9, 70732-70745	3.5	0
9	Sequential Learning and Decision-Making in Dynamic Channel Access and Transmission Scheduling 2019 , 869-897		

- 8 Optimal Server Allocation in Wireless Networks: The Use of Index Policies **2006**, 87-115
- 7 Sequential Learning and Decision-Making in Dynamic Channel Access and Transmission Scheduling **2017**, 1-29
- 6 Opportunistic Scheduling with Deadline Constraints in Wireless Networks. *Springer Optimization and Its Applications*, **2011**, 127-155 0.4
- 5 Resource Pooling for Shared Fate: Incentivizing Effort in Interdependent Security Games Through Cross-Investments. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 964-975 4
- 4 Corrections to Preference-Based Privacy Markets *IEEE Access*, **2021**, 9, 14179-14180 3.5
- 3 Corrections to Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes. *IEEE Internet of Things Journal*, **2021**, 8, 11773-11775 10.7
- 2 Smart Internet Probing: Scanning Using Adaptive Machine Learning **2021**, 411-437
- 1 Cyber-Insurance Market **2021**, 1-6