

# Mingyan Liu

## 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.

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	Network Games with Strategic Machine Learning. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 118-137	0.9	0
96	Resource Pooling for Shared Fate: Incentivizing Effort in Interdependent Security Games Through Cross-Investments. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 964-975	4	
95	Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 7360-7371	10.7	4
94	Designing Contracts for Trading Private and Heterogeneous Data Using a Biased Differentially Private Algorithm. <i>IEEE Access</i> , <b>2021</b> , 9, 70732-70745	3.5	0
93	Corrections to Preference-Based Privacy Markets <i>IEEE Access</i> , <b>2021</b> , 9, 14179-14180	3.5	
92	Corrections to Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 11773-11775	10.7	
91	Privacy Risk is a Function of Information Type: Learnings for the Surveillance Capitalism Age. <i>IEEE Transactions on Network and Service Management</i> , <b>2021</b> , 18, 3280-3296	4.8	2
90	Smart Internet Probing: Scanning Using Adaptive Machine Learning <b>2021</b> , 411-437		
89	Cyber-Insurance Market <b>2021</b> , 1-6		
88	Data Trading with a Monopoly Social Network: Outcomes Are Mostly Privacy Welfare Damaging. <i>IEEE Networking Letters</i> , <b>2020</b> , 2, 185-189	2.8	1
87	Data Trading with Competitive Social Platforms: Outcomes are Mostly Privacy Welfare Damaging. <i>IEEE Transactions on Network and Service Management</i> , <b>2020</b> , 1-1	4.8	1
86	Using Private and Public Assessments in Security Information Sharing Agreements. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2020</b> , 15, 1801-1814	8	3
85	Recycled ADMM: Improving the Privacy and Accuracy of Distributed Algorithms. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2020</b> , 15, 1723-1734	8	6
84	Preference-Based Privacy Markets. <i>IEEE Access</i> , <b>2020</b> , 8, 146006-146026	3.5	4
83	Contract design for purchasing private data using a biased differentially private algorithm <b>2019</b> ,		4
82	Incentivizing effort in interdependent security games using resource pooling <b>2019</b> ,		3
81	Sequential Learning and Decision-Making in Dynamic Channel Access and Transmission Scheduling <b>2019</b> , 869-897		

80	A Reputation-Based Contract for Repeated Crowdsensing With Costly Verification. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 6092-6104	4.8	3
79	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 2226-2239	8	30
78	Provision of Public Goods on Networks: On Existence, Uniqueness, and Centralities. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2018</b> , 5, 225-236	4.9	12
77	Recycled ADMM: Improve Privacy and Accuracy with Less Computation in Distributed Algorithms <b>2018</b> ,		10
76	On the uniqueness and stability of equilibria of network games <b>2017</b> ,		7
75	Mitigating Large Errors in WiFi-Based Indoor Localization for Smartphones. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 6246-6257	6.8	38
74	A reputation-based contract for repeated crowdsensing with costly verification <b>2017</b> ,		4
73	Sequential Learning and Decision-Making in Dynamic Channel Access and Transmission Scheduling <b>2017</b> , 1-29		
72	Learning in Hide-and-Seek. <i>IEEE/ACM Transactions on Networking</i> , <b>2016</b> , 24, 1279-1292	3.8	6
71	Perceptions and Truth: A Mechanism Design Approach to Crowd-Sourcing Reputation. <i>IEEE/ACM Transactions on Networking</i> , <b>2016</b> , 24, 163-176	3.8	7
70	Exit equilibrium: Towards understanding voluntary participation in security games <b>2016</b> ,		7
69	Risky business: Fine-grained data breach prediction using business profiles. <i>Translational Research in Oral Oncology</i> , <b>2016</b> , 2, 15-28	3.8	16
68	Hitchhike: A Preamble-Based Control Plane for SNR-Sensitive Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 1239-1251	9.6	3
67	Inter-temporal incentives in security information sharing agreements <b>2016</b> ,		8
66	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 2790-2803	8	14
65	To Stay or To Switch: Multiuser Multi-Channel Dynamic Access. <i>IEEE Transactions on Mobile Computing</i> , <b>2015</b> , 14, 858-871	4.6	8
64	Data-Driven Channel Modeling Using Spectrum Measurement. <i>IEEE Transactions on Mobile Computing</i> , <b>2015</b> , 14, 1794-1805	4.6	6
63	An Online Approach to Dynamic Channel Access and Transmission Scheduling <b>2015</b> ,		8

62	CD-MAC: A contention detectable MAC for low duty-cycled wireless sensor networks <b>2015</b> ,		7
61	Profit Incentive in Trading Nonexclusive Access on a Secondary Spectrum Market Through Contract Design. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 1190-1203	3.8	60
60	<b>2014</b> ,		4
59	Hitchhike: Riding control on preambles <b>2014</b> ,		8
58	Secondary User Data Capturing for Cognitive Radio Network Forensics under Capturing Uncertainty <b>2014</b> ,		3
57	Distributive Model-Based Sensor Fault Diagnosis in Wireless Sensor Networks <b>2013</b> ,		2
56	Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2009-2019	4	30
55	Efficient Sensor Fault Detection Using Combinatorial Group Testing <b>2013</b> ,		17
54	When simplicity meets optimality: Efficient transmission power control with stochastic energy harvesting <b>2013</b> ,		33
53	Joint control of transmission power and channel switching against adaptive jamming <b>2013</b> ,		1
52	To stay or to switch: Multiuser dynamic channel access <b>2013</b> ,		8
51	Profit incentive in a secondary spectrum market: A contract design approach <b>2013</b> ,		5
50	Throughput Optimal Switching in Multichannel WLANs. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 2470-2482	4.6	4
49	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 2301-2311	14.2	5
48	Online Learning of Rested and Restless Bandits. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 5588-5611	5.11	73
47	Price of Anarchy for Congestion Games in Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2012</b> , 11, 3778-3787	9.6	27
46	Poster abstract: Pair-wise reference-free fault detection in wireless sensor networks <b>2012</b> ,		2
45	Atomic Congestion Games on Graphs and Their Applications in Networking. <i>IEEE/ACM Transactions on Networking</i> , <b>2012</b> , 20, 1541-1552	3.8	64

44	Dynamic pricing of power in Smart-Grid networks <b>2012</b> ,		19
43	Mining Spectrum Usage Data: A Large-Scale Spectrum Measurement Study. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 1033-1046	4.6	131
42	Networked Computing in Wireless Sensor Networks for Structural Health Monitoring. <i>IEEE/ACM Transactions on Networking</i> , <b>2012</b> , 20, 1203-1216	3.8	39
41	Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 1304-1316	4.6	23
40	In-situ soil moisture sensing: Measurement scheduling and estimation using compressive sensing <b>2012</b> ,		5
39	Online learning for combinatorial network optimization with restless Markovian rewards <b>2012</b> ,		9
38	Approximately optimal adaptive learning in opportunistic spectrum access <b>2012</b> ,		21
37	Energy-Efficient Transmission Scheduling With Strict Underflow Constraints. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 1344-1367	2.8	12
36	Price of anarchy of congestion games with player-specific constants <b>2011</b> ,		2
35	A stochastic differential equation model for spectrum utilization <b>2011</b> ,		1
34	Online learning in opportunistic spectrum access: A restless bandit approach <b>2011</b> ,		52
33	Adaptive learning of uncontrolled restless bandits with logarithmic regret <b>2011</b> ,		9
32	ZigBee Wireless Sensor Network Using Physics-Based Optimally Sampling for Soil Moisture Measurement <b>2011</b> ,		1
31	In-Situ Soil Moisture Sensing: Efficient Random Sensor Placement and Field Estimation Using Compressive Sensing <b>2011</b> ,		1
30	Opportunistic Scheduling with Deadline Constraints in Wireless Networks. <i>Springer Optimization and Its Applications</i> , <b>2011</b> , 127-155	0.4	
29	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> , <b>2010</b> , 3, 522-535	4.7	70
28	Online algorithms for the multi-armed bandit problem with Markovian rewards <b>2010</b> ,		27
27	Measurement Scheduling for Soil Moisture Sensing: From Physical Models to Optimal Control. <i>Proceedings of the IEEE</i> , <b>2010</b> , 98, 1918-1933	14.3	22

26	Price of Anarchy for Cognitive MAC Games <b>2009</b> ,		19
25	Dynamic clock calibration via temperature measurement <b>2009</b> ,		1
24	Optimality of Myopic Sensing in Multichannel Opportunistic Access. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 4040-4050	2.8	229
23	Server allocation with delayed state observation: Sufficient conditions for the optimality of an index policy. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 1693-1705	9.6	5
22	Optimal Channel Probing and Transmission Scheduling for Opportunistic Spectrum Access. <i>IEEE/ACM Transactions on Networking</i> , <b>2009</b> , 17, 1805-1818	3.8	66
21	. <i>IEEE Transactions on Information Theory</i> , <b>2008</b> , 54, 4946-4965	2.8	1
20	Optimal Competitive Algorithms for Opportunistic Spectrum Access. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2008</b> , 26, 1183-1192	14.2	13
19	Controlled Flooding Search in a Large Network. <i>IEEE/ACM Transactions on Networking</i> , <b>2007</b> , 15, 436-449, 3.8		52
18	Optimal Sleep Scheduling for a Wireless Sensor Network Node <b>2006</b> ,		15
17	Randomly Duty-cycled Wireless Sensor Networks: Dynamics of Coverage. <i>IEEE Transactions on Wireless Communications</i> , <b>2006</b> , 5, 3182-3192	9.6	36
16	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2006</b> , 24, 1614-1626	14.2	6
15	A general framework to construct stationary mobility models for the simulation of mobile networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2006</b> , 5, 860-871	4.6	66
14	Optimal Server Allocation in Wireless Networks: The Use of Index Policies <b>2006</b> , 87-115		
13	An Efficient and Robust Computational Framework for Studying Lifetime and Information Capacity in Sensor Networks. <i>Mobile Networks and Applications</i> , <b>2005</b> , 10, 811-824	2.9	2
12	<b>2004</b> ,		1
11	Modeling TCP performance with proxies. <i>Computer Communications</i> , <b>2004</b> , 27, 961-975	5.1	6
10	Fixed point approximation for multirate multihop loss networks with state-dependent routing. <i>IEEE/ACM Transactions on Networking</i> , <b>2004</b> , 12, 361-374	3.8	14
9	Evaluation of performance enhancing proxies in internet over satellite. <i>International Journal of Communication Systems</i> , <b>2003</b> , 16, 513-534	1.7	13

8	Data-gathering wireless sensor networks: organization and capacity. <i>Computer Networks</i> , <b>2003</b> , 43, 519-537	121
7	Optimal controlled flooding search in a large wireless network	20
6	An approach to rate allocation in multicast	1
5	Analysis of TCP transient behavior and its effect on file transfer latency	3
4	On the optimality of an index policy for bandwidth allocation with delayed state observation and differentiated services	16
3	Partial clustering: maintaining connectivity in a low duty-cycled dense wireless sensor network	5
2	Asymptotic connectivity of low duty-cycled wireless sensor networks	1
1	Analysis of energy consumption and lifetime of heterogeneous wireless sensor networks	111