

# Ming Li

## List of Publications by Year in descending order

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147  
papers

4,500  
citations

159525

30  
h-index

143943

57  
g-index

150  
all docs

150  
docs citations

150  
times ranked

4184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable and Secure Sharing of Personal Health Records in Cloud Computing Using Attribute-Based Encryption. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 131-143.	4.0	873
2	Channel State Information Prediction for 5G Wireless Communications: A Deep Learning Approach. IEEE Transactions on Network Science and Engineering, 2020, 7, 227-236.	4.1	252
3	Multi-Objective Optimal Energy Consumption Scheduling in Smart Grids. IEEE Transactions on Smart Grid, 2013, 4, 341-348.	6.2	121
4	Earthquake Prediction Based on Spatio-Temporal Data Mining: An LSTM Network Approach. IEEE Transactions on Emerging Topics in Computing, 2020, 8, 148-158.	3.2	115
5	When Machine Learning Meets Blockchain: A Decentralized, Privacy-preserving and Secure Design. , 2018, , .		107
6	Dynamic Energy Management for the Smart Grid With Distributed Energy Resources. IEEE Transactions on Smart Grid, 2013, 4, 2139-2151.	6.2	105
7	The Capacity of Wireless Ad Hoc Networks Using Directional Antennas. IEEE Transactions on Mobile Computing, 2011, 10, 1374-1387.	3.9	100
8	Privacy-Preserving Energy Theft Detection in Microgrids: A State Estimation Approach. IEEE Transactions on Power Systems, 2016, 31, 883-894.	4.6	100
9	Cloud-Assisted Mobile-Access of Health Data With Privacy and Auditability. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 419-429.	3.9	92
10	Privacy-Preserving Energy Theft Detection in Smart Grids: A P2P Computing Approach. IEEE Journal on Selected Areas in Communications, 2013, 31, 257-267.	9.7	85
11	Cooperative Communication Aware Link Scheduling for Cognitive Vehicular Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 760-768.	9.7	80
12	Joint routing and link scheduling for cognitive radio networks under uncertain spectrum supply. , 2011, , .		78
13	Capacity and delay of hybrid wireless broadband access networks. IEEE Journal on Selected Areas in Communications, 2009, 27, 117-125.	9.7	74
14	Throughput, Delay, and Mobility in Wireless Ad Hoc Networks. , 2010, , .		66
15	Optimal Placement of Gateways in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 3421-3430.	3.9	61
16	Spectrum Harvesting and Sharing in Multi-Hop CRNs Under Uncertain Spectrum Supply. IEEE Journal on Selected Areas in Communications, 2012, 30, 369-378.	9.7	57
17	Privacy-preserving verifiable data aggregation and analysis for cloud-assisted mobile crowdsourcing. , 2016, , .		57
18	Cooler Path: Spectrum Mobility Aware Routing Metrics in Cognitive Ad Hoc Networks. , 2011, , .		55

#	ARTICLE	IF	CITATIONS
19	Smooth Trade-Offs between Throughput and Delay in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2012, 11, 427-438.	3.9	55
20	Efficient data collection for wireless rechargeable sensor clusters in Harsh terrains using UAVs. , 2014, , .		53
21	Cognitive Capacity Harvesting Networks: Architectural Evolution Toward Future Cognitive Radio Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 1902-1923.	24.8	53
22	Cascading Failure Attacks in the Power System: A Stochastic Game Perspective. IEEE Internet of Things Journal, 2017, 4, 2247-2259.	5.5	53
23	Optimal Scheduling for Multi-Radio Multi-Channel Multi-Hop Cognitive Cellular Networks. IEEE Transactions on Mobile Computing, 2015, 14, 139-154.	3.9	51
24	Efficient secure outsourcing of large-scale linear systems of equations. , 2015, , .		49
25	Human Behavior Deep Recognition Architecture for Smart City Applications in the 5G Environment. IEEE Network, 2019, 33, 206-211.	4.9	49
26	Energy Consumption Optimization for Multihop Cognitive Cellular Networks. IEEE Transactions on Mobile Computing, 2015, 14, 358-372.	3.9	45
27	AI at the Edge: Blockchain-Empowered Secure Multiparty Learning With Heterogeneous Models. IEEE Internet of Things Journal, 2020, 7, 9600-9610.	5.5	43
28	The Capacity of Heterogeneous Wireless Networks. , 2010, , .		42
29	Spectrum clouds: A session based spectrum trading system for multi-hop cognitive radio networks. , 2012, , .		40
30	Impacts of Topology and Traffic Pattern on Capacity of Hybrid Wireless Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1585-1595.	3.9	39
31	An adaptive power controlled MAC protocol for wireless ad hoc networks. IEEE Transactions on Wireless Communications, 2009, 8, 226-233.	6.1	36
32	Privacy-preserving energy theft detection in smart grids. , 2012, , .		36
33	Efficient Secure Outsourcing of Large-Scale Sparse Linear Systems of Equations. IEEE Transactions on Big Data, 2018, 4, 26-39.	4.4	36
34	Asymptotic Connectivity in Wireless Ad Hoc Networks Using Directional Antennas. IEEE/ACM Transactions on Networking, 2009, 17, 1106-1117.	2.6	35
35	Unsupervised Anomaly Detection in IoT Systems for Smart Cities. IEEE Transactions on Network Science and Engineering, 2020, 7, 2231-2242.	4.1	35
36	When Spectrum Meets Clouds: Optimal Session Based Spectrum Trading under Spectrum Uncertainty. IEEE Journal on Selected Areas in Communications, 2014, 32, 615-627.	9.7	34

#	ARTICLE	IF	CITATIONS
37	A Storage-Friendly Routing Scheme in Intermittently Connected Mobile Network. IEEE Transactions on Vehicular Technology, 2011, 60, 1138-1149.	3.9	33
38	Admission Control Based on Available Bandwidth Estimation for Wireless Mesh Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 2519-2528.	3.9	32
39	Connectivity of large-scale Cognitive Radio Ad Hoc Networks. , 2012, , .		32
40	Privacy-Preserving Verifiable Set Operation in Big Data for Cloud-Assisted Mobile Crowdsourcing. IEEE Internet of Things Journal, 2017, 4, 572-582.	5.5	32
41	Capacity Bounds of Three-Dimensional Wireless Ad Hoc Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1304-1315.	2.6	31
42	MAC-Layer Selfish Misbehavior in IEEE 802.11 Ad Hoc Networks: Detection and Defense. IEEE Transactions on Mobile Computing, 2015, 14, 1203-1217.	3.9	30
43	Cost-Sensitive Deep Active Learning for Epileptic Seizure Detection. , 2018, , .		29
44	On the Throughput Capacity of Heterogeneous Wireless Networks. IEEE Transactions on Mobile Computing, 2012, 11, 2073-2086.	3.9	28
45	Spectrum availability prediction in cognitive aerospace communications: A deep learning perspective. , 2017, , .		28
46	CRIL: An Efficient Online Adaptive Indoor Localization System. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	28
47	Power controlled network protocols for Multi-Rate ad hoc networks. IEEE Transactions on Wireless Communications, 2009, 8, 2142-2149.	6.1	27
48	Online Power Control for 5G Wireless Communications: A Deep Q-Network Approach. , 2018, , .		27
49	SDMAC: Selectively Directional MAC protocol for wireless mobile ad hoc networks. Wireless Networks, 2009, 15, 805-820.	2.0	26
50	Verifiable privacy-preserving monitoring for cloud-assisted mHealth systems. , 2015, , .		26
51	Directional medium access control for ad hoc networks. Wireless Networks, 2009, 15, 1059-1073.	2.0	25
52	n-CD: A geometric approach to preserving location privacy in location-based services. , 2013, , .		24
53	Real-time personalized cardiac arrhythmia detection and diagnosis: A cloud computing architecture. , 2017, , .		24
54	STEP: A Spatio-Temporal Fine-Granular User Traffic Prediction System for Cellular Networks. IEEE Transactions on Mobile Computing, 2021, 20, 3453-3466.	3.9	24

#	ARTICLE	IF	CITATIONS
55	Capacity scaling of multihop cellular networks. , 2011, , .		23
56	The capacity of three-dimensional wireless ad hoc networks. , 2011, , .		23
57	Spectrum Availability Prediction for Cognitive Radio Communications: A DCG Approach. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 476-485.	4.9	22
58	TrafficChain: A Blockchain-Based Secure and Privacy-Preserving Traffic Map. IEEE Access, 2020, 8, 60598-60612.	2.6	21
59	Economic-robust transmission opportunity auction in multi-hop wireless networks. , 2013, , .		20
60	A tutorial on secure outsourcing of large-scale computations for big data. IEEE Access, 2016, 4, 1406-1416.	2.6	20
61	Efficient Secure Outsourcing of Large-scale Quadratic Programs. , 2016, , .		20
62	How to Effectively Use Multiple Channels in Wireless Mesh Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1641-1652.	4.0	19
63	A Unified Unsupervised Gaussian Mixture Variational Autoencoder for High Dimensional Outlier Detection. , 2018, , .		19
64	Crowdsourcing in Cyber-Physical Systems: Stochastic Optimization With Strong Stability. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 218-231.	3.2	18
65	A holistic energy optimization framework for cloud-assisted mobile computing. IEEE Wireless Communications, 2015, 22, 118-123.	6.6	18
66	Joint Offloading and Transmission Power Control for Mobile Edge Computing. IEEE Access, 2019, 7, 81640-81651.	2.6	18
67	Efficient Secure Outsourcing of Large-Scale Convex Separable Programming for Big Data. IEEE Transactions on Big Data, 2019, 5, 368-378.	4.4	18
68	Community Detection in Online Social Networks: A Differentially Private and Parsimonious Approach. IEEE Transactions on Computational Social Systems, 2020, 7, 151-163.	3.2	18
69	SecFact: Secure Large-scale QR and LU Factorizations. IEEE Transactions on Big Data, 2019, , 1-1.	4.4	16
70	PPER: Privacy-preserving economic-robust spectrum auction in wireless networks. , 2015, , .		14
71	Asymmetric Social Proximity Based Private Matching Protocols for Online Social Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1547-1559.	4.0	14
72	Learning to Learn Gradient Aggregation by Gradient Descent. , 2019, , .		14

#	ARTICLE	IF	CITATIONS
73	Cross-Domain Sentiment Classification via a Bifurcated-LSTM. Lecture Notes in Computer Science, 2018, , 681-693.	1.0	13
74	Secure and Efficient Data Sharing in Dynamic Vehicular Networks. IEEE Internet of Things Journal, 2020, 7, 8208-8217.	5.5	13
75	Energy-Efficient Computation Offloading in Mobile Edge Computing Systems With Uncertainties. IEEE Transactions on Wireless Communications, 2022, 21, 5717-5729.	6.1	13
76	State estimation for energy theft detection in microgrids. , 2014, , .		12
77	SPA: A Secure and Private Auction Framework for Decentralized Online Social Networks. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2394-2407.	4.0	12
78	Throughput and Delay in Cooperative Wireless Networks With Partial Infrastructure. IEEE Transactions on Vehicular Technology, 2009, 58, 4620-4627.	3.9	11
79	A deep multi-task learning approach for ECG data analysis. , 2018, , .		11
80	Data-Driven Spectrum Trading with Secondary Usersâ€™ Differential Privacy Preservation. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 438-447.	3.7	11
81	Reward and Risk for Opportunistic Spectrum Accessing in Cognitive Radio Networks. , 2010, , .		10
82	CATE: Cloud-Aided Trustworthiness Evaluation Scheme for Incompletely Predictable Vehicular AdHoc Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 11213-11226.	3.9	10
83	Deep <i>Q</i>-Network-Based Feature Selection for Multisourced Data Cleaning. IEEE Internet of Things Journal, 2021, 8, 16153-16164.	5.5	10
84	A Directional MAC Protocol for Ad Hoc Networks. , 2006, , .		9
85	Energy-Source-Aware Cost Optimization for Green Cellular Networks with Strong Stability. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 541-555.	3.2	9
86	Efficient Privacy-Preserving Outsourcing of Large-Scale QR Factorization. , 2017, , .		9
87	PerRNN: Personalized Recurrent Neural Networks for Acceleration-Based Human Activity Recognition. , 2019, , .		9
88	Improving throughput by tuning carrier sensing in 802.11 wireless networks. Computer Communications, 2009, 32, 1263-1270.	3.1	8
89	Energy-Efficient Autonomic Offloading in Mobile Edge Computing. , 2017, , .		8
90	Differentially Private Functional Mechanism for Generative Adversarial Networks. , 2019, , .		8

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91	Collusion-Resistant Worker Recruitment in Crowdsourcing Systems. IEEE Transactions on Mobile Computing, 2023, 22, 129-144.	3.9	8
92	RENA. , 2009, , .		7
93	Efficient Privacy-Preserving Outsourcing of Large-Scale Convex Separable Programming for Smart Cities. , 2016, , .		7
94	Parallel Secure Outsourcing of Large-scale Nonlinearly Constrained Nonlinear Programming Problems. IEEE Transactions on Big Data, 2018, , 1-1.	4.4	7
95	LTE Misbehavior Detection in Wi-Fi/LTE Coexistence Under the LAA-LTE Standard. , 2018, , .		7
96	Cyber-guided Deep Neural Network for Malicious Repository Detection in GitHub. , 2020, , .		7
97	Resisting Distributed Backdoor Attacks in Federated Learning: A Dynamic Norm Clipping Approach. , 2021, , .		7
98	Performance of a Novel Adaptive Traffic Aggregation Scheme for Wireless Mesh Networks. , 2007, , .		6
99	LocaWard: A security and privacy aware location-based rewarding system. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 343-352.	4.0	6
100	Data-Driven Caching With Users's Content Preference Privacy in Information-Centric Networks. IEEE Transactions on Wireless Communications, 2021, 20, 5744-5753.	6.1	6
101	An Efficient H.264/AVC to HEVC Transcoder for Real-Time Video Communication in Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 3186-3197.	5.5	6
102	Genomic Data Sharing under Dependent Local Differential Privacy. , 2022, 2022, 77-88.		6
103	Asymptotic Connectivity in Wireless Networks Using Directional Antennas. , 2007, , .		5
104	Saturation throughput of IEEE 802.11 DCF in multi-hop ad hoc networks. , 2008, , .		5
105	Towards auditable cloud-assisted access of encrypted health data. , 2013, , .		5
106	Resource Harvesting in Cognitive Wireless Computing Networks With Mobile Clouds and Virtualized Distributed Data Centers: Performance Limits. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 318-334.	4.9	5
107	Economic-Robust Transmission Opportunity Auction for D2D Communications in Cognitive Mesh Assisted Cellular Networks. IEEE Transactions on Mobile Computing, 2018, 17, 1806-1819.	3.9	5
108	Green TCP Transmission Over Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7585-7592.	3.9	5

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109	Data-Driven Caching with Users' Local Differential Privacy in Information-Centric Networks. , 2018, , .		5
110	Quantized Adversarial Training: An Iterative Quantized Local Search Approach. , 2019, , .		5
111	Toward Combatting COVID-19: A Risk Assessment System. IEEE Internet of Things Journal, 2021, 8, 15953-15964.	5.5	5
112	Decentralized Routing in Nonhomogeneous Poisson Networks. , 2008, , .		4
113	Optimal Energy Cost for Strongly Stable Multi-hop Green Cellular Networks. , 2014, , .		4
114	Retraining and Dynamic Privilege for Implicit Authentication Systems. , 2015, , .		4
115	Collaborative Spectrum Trading and Sharing for Cognitive Radio Networks. , 2019, , 931-968.		4
116	MastDP: Matching Based Double Auction Mechanism for Spectrum Trading with Differential Privacy. , 2019, , .		4
117	ECONOMY: Point Clouds-Based Energy-Efficient Autonomous Navigation for UAVs. IEEE Transactions on Network Science and Engineering, 2021, 8, 2885-2896.	4.1	4
118	Differentially private binary- and matrix-valued data query. Proceedings of the VLDB Endowment, 2021, 14, 849-862.	2.1	4
119	Optimal Transportation Network Company Vehicle Dispatching via Deep Deterministic Policy Gradient. Lecture Notes in Computer Science, 2019, , 297-309.	1.0	4
120	Preserving Genomic Privacy via Selective Sharing. , 2020, 2020, 163-179.		4
121	Privacy-Preserving Spectrum Query with Location Proofs in Database-Driven CRNs. , 2016, , .		3
122	Securing Task Allocation in Mobile Crowd Sensing: An Incentive Design Approach. , 2019, , .		3
123	Smart Communications in Heterogeneous Spacecraft Networks: A Blockchain Based Secure Auction Approach. , 2019, , .		3
124	Dealing with the Untrustworthy Auctioneer in Combinatorial Spectrum Auctions. , 2011, , .		2
125	User cooperation in wireless networks. IEEE Wireless Communications, 2012, 19, 8-9.	6.6	2
126	Privacy-Preserving Verifiable Proximity Test for Location-Based Services. , 2014, , .		2



#	ARTICLE	IF	CITATIONS
127	Outsourcing Power System Simulations. , 2015, , .		2
128	Efficient Privacy-Preserving Large-Scale CP Tensor Decompositions. , 2018, , .		2
129	The Curse of Correlations for Robust Fingerprinting of Relational Databases. , 2021, , .		2
130	Source Localization on Two-Dimensional Grid. , 2011, , .		1
131	Throughput maximization of cooperative wireless mesh networks using directional antennas. , 2012, , .		1
132	Scalable video coding based video transmission in MRMC networks: A cross-layer design perspective. , 2013, , .		1
133	The Network Architecture for Spectrum Trading. Springer Briefs in Electrical and Computer Engineering, 2015, , 1-9.	0.3	1
134	On the Throughput Limit of Multi-Hop Wireless Networks with Reconfigurable Antennas. , 2018, , .		1
135	Secure Outsourcing of Matrix Convolutions. , 2018, , .		1
136	Weak Signal Detection in 5G+ Systems. , 2021, , .		1
137	Transport Control Based on Spectrum Switching Detection in Cognitive Radio Ad Hoc Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 1-15.	0.2	1
138	Collaborative Spectrum Trading and Sharing for Cognitive Radio Networks. , 2017, , 1-38.		1
139	Embedded AutoEncoders: A Novel Framework for Face De-identification. Communications in Computer and Information Science, 2020, , 154-163.	0.4	1
140	A novel multi-channel access scheme in cognitive ad hoc networks. , 2010, , .		0
141	Outsourcing Power System Simulations. , 2014, , .		0
142	Secure Cloud Computing for Pairwise Sequence Alignment. , 2017, , .		0
143	Practical privacy-preserving spectrum query schemes for database-driven CRNs with multiple service providers. , 2017, , .		0
144	Data Streaming Analysis Framework for Through-time 3D Free-breathing Liver DCE-MRI. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
145	Exploring Spatial-Temporal Patterns From Individual User Cellular Traffic. , 2019, , .		0
146	Collaborative Spectrum Trading and Sharing for Cognitive Radio Networks. , 2017, , 1-38.		0
147	Capacity of Wireless Ad Hoc Networks. , 2020, , 160-164.		0