

# Lionel M Ni

## List of Publications by Year in descending order

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104  
papers

5,610  
citations

218677

26  
h-index

189892

50  
g-index

104  
all docs

104  
docs citations

104  
times ranked

4224  
citing authors

#	ARTICLE	IF	CITATIONS
1	FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories. IEEE Internet of Things Journal, 2021, 8, 12505-12517.	8.7	33
2	Generalized Convolutional Sparse Coding With Unknown Noise. IEEE Transactions on Image Processing, 2020, 29, 5386-5395.	9.8	5
3	Efficient Detection of Soft Concatenation Mapping. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	5.7	1
4	Throughput Optimization in WLAN/Cellular Integrated Network Using Partially Overlapped Channels. IEEE Transactions on Wireless Communications, 2018, 17, 157-169.	9.2	8
5	Profiling Driver Behavior for Personalized Insurance Pricing and Maximal Profit. , 2018, , .		10
6	Scalable Online Convolutional Sparse Coding. IEEE Transactions on Image Processing, 2018, 27, 4850-4859.	9.8	26
7	Software-Defined Architectures and Technologies for Underwater Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2855-2888.	39.4	92
8	RSS-Based Ranging by Leveraging Frequency Diversity to Distinguish the Multiple Radio Paths. IEEE Transactions on Mobile Computing, 2017, 16, 1121-1135.	5.8	10
9	WiFall: Device-Free Fall Detection by Wireless Networks. IEEE Transactions on Mobile Computing, 2017, 16, 581-594.	5.8	559
10	TagFree: Passive object differentiation via physical layer radiometric signatures. , 2017, , .		7
11	ACTS: An Active Learning Method for Time Series Classification. , 2017, , .		14
12	Detecting unmetered taxi rides from trajectory data. , 2017, , .		9
13	Event-based non-parametric clustering of team sport trajectories. , 2017, , .		1
14	Zero-shot learning with a partial set of observed attributes. , 2017, , .		1
15	HIMM: An HMM-Based Interactive Map-Matching System. Lecture Notes in Computer Science, 2017, , 3-18.	1.3	8
16	TelcoFlow: Visual exploration of collective behaviors based on telco data. , 2016, , .		12
17	Rethinking big data in a networked world. Frontiers of Computer Science, 2016, 10, 965-967.	2.4	5
18	TiM: Fine-Grained Rate Adaptation in WLANs. IEEE Transactions on Mobile Computing, 2016, 15, 748-761.	5.8	36

#	ARTICLE	IF	CITATIONS
19	BEP: Bit Error Pattern Measurement and Analysis in IEEE 802.11. , 2015, , .		1
20	Visual analysis of bi-directional movement behavior. , 2015, , .		7
21	WiFi-Based Indoor Line-of-Sight Identification. IEEE Transactions on Wireless Communications, 2015, 14, 6125-6136.	9.2	61
22	Towards Redundancy-Aware Data Utility Maximization in Crowdsourced Sensing with Smartphones. , 2015, , .		2
23	On Multipath Link Characterization and Adaptation for Device-Free Human Detection. , 2015, , .		16
24	TMC: Exploiting Trajectories for Multicast in Sparse Vehicular Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 262-271.	5.6	30
25	NomLoc: Calibration-Free Indoor Localization with Nomadic Access Points. , 2014, , .		14
26	Double Free: Measurement-Free Localization for Transceiver-Free Object. , 2014, , .		3
27	Exploiting Trajectory-Based Coverage for Geocast in Vehicular Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3177-3189.	5.6	35
28	CUTS: Improving Channel Utilization in Both Time and Spatial Domain in WLANs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1413-1423.	5.6	29
29	CSMA/SF: Carrier Sense Multiple Access with Shortest First. IEEE Transactions on Wireless Communications, 2014, 13, 1692-1702.	9.2	19
30	MViewer: mobile phone spatiotemporal data viewer. Frontiers of Computer Science, 2014, 8, 298-315.	2.4	6
31	Fraud Detection From Taxis' Driving Behaviors. IEEE Transactions on Vehicular Technology, 2014, 63, 464-472.	6.3	57
32	Fine-Grained Localization for Multiple Transceiver-Free Objects by using RF-Based Technologies. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1464-1475.	5.6	76
33	WiFall: Device-free fall detection by wireless networks. , 2014, , .		186
34	MODLoc: Localizing Multiple Objects in Dynamic Indoor Environment. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2969-2980.	5.6	36
35	RASS: A Real-Time, Accurate, and Scalable System for Tracking Transceiver-Free Objects. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 996-1008.	5.6	73
36	Attachment-Learning for Multi-Channel Allocation in Distributed OFDMA-Based Networks. IEEE Transactions on Wireless Communications, 2013, 12, 1712-1721.	9.2	10

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37	CUTS: Improving channel utilization in both time and spatial domains in WLANs. , 2013, , .		2
38	Effective routine behavior pattern discovery from sparse mobile phone data via collaborative filtering. , 2013, , .		5
39	ASAP: Scalable Collision Arbitration for Large RFID Systems. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1277-1288.	5.6	40
40	HUNTS: A Trajectory Recommendation System for Effective and Efficient Hunting of Taxi Passengers. , 2013, , .		35
41	CSI-Based Indoor Localization. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1300-1309.	5.6	382
42	Calibrating Large Scale Vehicle Trajectory Data. , 2012, , .		31
43	Chip Error Pattern Analysis in IEEE 802.15.4. IEEE Transactions on Mobile Computing, 2012, 11, 543-552.	5.8	58
44	On Packing Very Large R-trees. , 2012, , .		3
45	RCSMA: Receiver-Based Carrier Sense Multiple Access in UHF RFID Systems. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 735-743.	5.6	7
46	Ship Detection with Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1336-1343.	5.6	52
47	FIFS: Fine-Grained Indoor Fingerprinting System. , 2012, , .		200
48	FIMD: Fine-grained Device-free Motion Detection. , 2012, , .		107
49	Side Channel: Bits over Interference. IEEE Transactions on Mobile Computing, 2012, 11, 1317-1330.	5.8	64
50	Reuse of GSM White Space Spectrum for Cognitive Femtocell Access. , 2012, , .		4
51	Localizing Multiple Objects in an RF-based Dynamic Environment. , 2012, , .		6
52	Digital dividend capacity in China: A developing country's case study. , 2012, , .		5
53	On distinguishing the multiple radio paths in RSS-based ranging. , 2012, , .		12
54	FILA: Fine-grained indoor localization. , 2012, , .		262

#	ARTICLE	IF	CITATIONS
55	DDC: A Novel Scheme to Directly Decode the Collisions in UHF RFID Systems. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 263-270.	5.6	34
56	Rethinking the architecture design of data center networks. Frontiers of Computer Science, 2012, 6, 596.	2.4	25
57	Efficient Similarity Joins on Massive High-Dimensional Datasets Using MapReduce. , 2012, , .		19
58	HJam: Attachment transmission in WLANs. , 2012, , .		20
59	Cardinality Estimation for Large-Scale RFID Systems. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1441-1454.	5.6	209
60	Impact of Traffic Influxes: Revealing Exponential Intercontact Time in Urban VANETs. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1258-1266.	5.6	89
61	Attachment Learning for Multi-channel Allocation in Distributed OFDMA Networks. , 2011, , .		2
62	Cognitive sense of China. Frontiers of Computer Science, 2010, 4, 309-310.	0.6	0
63	Secure prophet address allocation for MANETs. Security and Communication Networks, 2010, 3, 31-43.	1.5	15
64	ASAP: Scalable Identification and Counting for Contactless RFID Systems. , 2010, , .		46
65	LocaToR: Locating Passive RFID Tags with the Relative Neighborhood Graph. , 2010, , .		2
66	TSS: Efficient Term Set Search in Large Peer-to-Peer Textual Collections. IEEE Transactions on Computers, 2010, 59, 969-980.	3.4	20
67	Opportunity-Based Topology Control in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 405-416.	5.6	103
68	Data Vitalization: A New Paradigm for Large-Scale Dataset Analysis. , 2010, , .		17
69	Link-Centric Probabilistic Coverage Model for Transceiver-Free Object Detection in Wireless Networks. , 2010, , .		12
70	Chip Error Pattern Analysis in IEEE 802.15.4. , 2010, , .		13
71	Difficulty-Aware Hybrid Search in Peer-to-Peer Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 71-82.	5.6	18
72	BloomCast: Efficient Full-Text Retrieval over Unstructured P2Ps with Guaranteed Recall. , 2009, , .		1

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73	ANTS: Efficient Vehicle Locating Based on Ant Search in ShanghaiGrid. IEEE Transactions on Vehicular Technology, 2009, 58, 4088-4097.	6.3	16
74	Dynamic clustering for tracking multiple transceiver-free objects. , 2009, , .		75
75	Secure autoconfiguration and public-key distribution for Mobile Ad-hoc Networks. , 2009, , .		3
76	HERO: Online Real-Time Vehicle Tracking. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 740-752.	5.6	33
77	Level the buffer wall: Fair channel assignment in wireless sensor networks. , 2009, , .		4
78	UDB: Using Directional Beacons for Localization in Underwater Sensor Networks. , 2008, , .		39
79	Learning Adaptive Temporal Radio Maps for Signal-Strength-Based Location Estimation. IEEE Transactions on Mobile Computing, 2008, 7, 869-883.	5.8	181
80	MDS: Efficient Multi-dimensional Query Processing in Data-Centric WSNs. , 2008, , .		2
81	Energy Efficient Detections of Critical Events in Wireless Sensor Networks. , 2008, , .		0
82	China's National Research Project on Wireless Sensor Networks. , 2008, , .		4
83	Pseudo Trust: Zero-Knowledge Based Authentication in Anonymous Peer-to-Peer Protocols. , 2007, , .		9
84	Energy-Efficient Localized Topology Control Algorithms in IEEE 802.15.4-Based Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 711-720.	5.6	47
85	Difficulty-aware Hybrid Search in Peer-to-Peer Networks. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	10
86	Popularity Adaptive Search in Hybrid P2P Systems. , 2007, , .		2
87	A new MAC protocol design for long-term applications in wireless sensor networks. , 2007, , .		3
88	VIRE: Active RFID-based Localization Using Virtual Reference Elimination. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	147
89	Private and Secure Service Discovery via Progressive and Probabilistic Exposure. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1565-1577.	5.6	26
90	Dynamic Key-Updating: Privacy-Preserving Authentication for RFID Systems. , 2007, , .		93

#	ARTICLE	IF	CITATIONS
91	Low-Overhead Dominating Set based Algorithms for Maximizing Lifetime in Wireless Sensor Networks. , 2007, , .		1
92	An RF-Based System for Tracking Transceiver-Free Objects. , 2007, , .		197
93	S-Club: an overlay-based efficient service discovery mechanism in CROWN Grid. Knowledge and Information Systems, 2007, 12, 55-75.	3.2	8
94	Access Control Policy Negotiation for Remote Hot-Deployed Grid Services. , 2007, , 127-148.		0
95	Hybrid Periodical Flooding in Unstructured Peer-to-Peer Networks. , 2006, , 573-591.		15
96	Reactive ID Assignment for Wireless Sensor Networks. International Journal of Wireless Information Networks, 2006, 13, 317-328.	2.7	5
97	Incentive-based scheduling in Grid computing. Concurrency Computation Practice and Experience, 2006, 18, 1729-1746.	2.2	6
98	A semantic-based architecture for sensor networks. Annales Des Telecommunications/Annals of Telecommunications, 2005, 60, 928-943.	2.5	4
99	BLOSSOMS: Building Lightweight Optimized Sensor Systems on a Massive Scale. Journal of Computer Science and Technology, 2005, 20, 105-177.	1.5	4
100	LANDMARC: Indoor Location Sensing Using Active RFID. Wireless Networks, 2004, 10, 701-710.	3.0	1,155
101	Building Efficient Overlays. Journal of Grid Computing, 2004, 2, 183-192.	3.9	1
102	Facilitating secure ad hoc service discovery in public environments. , 0, , .		2
103	Adaptive Temporal Radio Maps for Indoor Location Estimation. , 0, , .		82
104	Expose or Not? A Progressive Exposure Approach for Service Discovery in Pervasive Computing Environments. , 0, , .		18