

# 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	LANDMARC: Indoor Location Sensing Using Active RFID. <i>Wireless Networks</i> , 2004, 10, 701-710.	3.0	1,155
2	WiFall: Device-Free Fall Detection by Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2017, 16, 581-594.	5.8	559
3	CSI-Based Indoor Localization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013, 24, 1300-1309.	5.6	382
4	FILA: Fine-grained indoor localization. , 2012, , .		262
5	Cardinality Estimation for Large-Scale RFID Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2011, 22, 1441-1454.	5.6	209
6	FIFS: Fine-Grained Indoor Fingerprinting System. , 2012, , .		200
7	An RF-Based System for Tracking Transceiver-Free Objects. , 2007, , .		197
8	WiFall: Device-free fall detection by wireless networks. , 2014, , .		186
9	Learning Adaptive Temporal Radio Maps for Signal-Strength-Based Location Estimation. <i>IEEE Transactions on Mobile Computing</i> , 2008, 7, 869-883.	5.8	181
10	VIRE: Active RFID-based Localization Using Virtual Reference Elimination. <i>Parallel Processing (ICPP), Proceedings of the International Symposium</i> , 2007, , .	0.0	147
11	FIMD: Fine-grained Device-free Motion Detection. , 2012, , .		107
12	Opportunity-Based Topology Control in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010, 21, 405-416.	5.6	103
13	Dynamic Key-Updating: Privacy-Preserving Authentication for RFID Systems. , 2007, , .		93
14	Software-Defined Architectures and Technologies for Underwater Wireless Sensor Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 2855-2888.	39.4	92
15	Impact of Traffic Influxes: Revealing Exponential Intercontact Time in Urban VANETs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2011, 22, 1258-1266.	5.6	89
16	Adaptive Temporal Radio Maps for Indoor Location Estimation. , 0, , .		82
17	Fine-Grained Localization for Multiple Transceiver-Free Objects by using RF-Based Technologies. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014, 25, 1464-1475.	5.6	76
18	Dynamic clustering for tracking multiple transceiver-free objects. , 2009, , .		75

#	ARTICLE	IF	CITATIONS
19	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
20	Side Channel: Bits over Interference. IEEE Transactions on Mobile Computing, 2012, 11, 1317-1330.	5.8	64
21	WiFi-Based Indoor Line-of-Sight Identification. IEEE Transactions on Wireless Communications, 2015, 14, 6125-6136.	9.2	61
22	Chip Error Pattern Analysis in IEEE 802.15.4. IEEE Transactions on Mobile Computing, 2012, 11, 543-552.	5.8	58
23	Fraud Detection From Taxis' Driving Behaviors. IEEE Transactions on Vehicular Technology, 2014, 63, 464-472.	6.3	57
24	Ship Detection with Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1336-1343.	5.6	52
25	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
26	ASAP: Scalable Identification and Counting for Contactless RFID Systems. , 2010, , .		46
27	ASAP: Scalable Collision Arbitration for Large RFID Systems. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1277-1288.	5.6	40
28	UDB: Using Directional Beacons for Localization in Underwater Sensor Networks. , 2008, , .		39
29	MODLoc: Localizing Multiple Objects in Dynamic Indoor Environment. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2969-2980.	5.6	36
30	TiM: Fine-Grained Rate Adaptation in WLANs. IEEE Transactions on Mobile Computing, 2016, 15, 748-761.	5.8	36
31	HUNTS: A Trajectory Recommendation System for Effective and Efficient Hunting of Taxi Passengers. , 2013, , .		35
32	Exploiting Trajectory-Based Coverage for Geocast in Vehicular Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3177-3189.	5.6	35
33	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
34	HERO: Online Real-Time Vehicle Tracking. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 740-752.	5.6	33
35	FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories. IEEE Internet of Things Journal, 2021, 8, 12505-12517.	8.7	33
36	Calibrating Large Scale Vehicle Trajectory Data. , 2012, , .		31

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37	TMC: Exploiting Trajectories for Multicast in Sparse Vehicular Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 262-271.	5.6	30
38	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
39	Private and Secure Service Discovery via Progressive and Probabilistic Exposure. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1565-1577.	5.6	26
40	Scalable Online Convolutional Sparse Coding. IEEE Transactions on Image Processing, 2018, 27, 4850-4859.	9.8	26
41	Rethinking the architecture design of data center networks. Frontiers of Computer Science, 2012, 6, 596.	2.4	25
42	TSS: Efficient Term Set Search in Large Peer-to-Peer Textual Collections. IEEE Transactions on Computers, 2010, 59, 969-980.	3.4	20
43	HJam: Attachment transmission in WLANs. , 2012, , .		20
44	Efficient Similarity Joins on Massive High-Dimensional Datasets Using MapReduce. , 2012, , .		19
45	CSMA/SF: Carrier Sense Multiple Access with Shortest First. IEEE Transactions on Wireless Communications, 2014, 13, 1692-1702.	9.2	19
46	Expose or Not? A Progressive Exposure Approach for Service Discovery in Pervasive Computing Environments. , 0, , .		18
47	Difficulty-Aware Hybrid Search in Peer-to-Peer Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 71-82.	5.6	18
48	Data Vitalization: A New Paradigm for Large-Scale Dataset Analysis. , 2010, , .		17
49	ANTS: Efficient Vehicle Locating Based on Ant Search in ShanghaiGrid. IEEE Transactions on Vehicular Technology, 2009, 58, 4088-4097.	6.3	16
50	On Multipath Link Characterization and Adaptation for Device-Free Human Detection. , 2015, , .		16
51	Hybrid Periodical Flooding in Unstructured Peer-to-Peer Networks. , 2006, , 573-591.		15
52	Secure prophet address allocation for MANETs. Security and Communication Networks, 2010, 3, 31-43.	1.5	15
53	NomLoc: Calibration-Free Indoor Localization with Nomadic Access Points. , 2014, , .		14
54	ACTS: An Active Learning Method for Time Series Classification. , 2017, , .		14

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55	Chip Error Pattern Analysis in IEEE 802.15.4. , 2010, , .		13
56	Link-Centric Probabilistic Coverage Model for Transceiver-Free Object Detection in Wireless Networks. , 2010, , .		12
57	On distinguishing the multiple radio paths in RSS-based ranging. , 2012, , .		12
58	TelcoFlow: Visual exploration of collective behaviors based on telco data. , 2016, , .		12
59	Difficulty-aware Hybrid Search in Peer-to-Peer Networks. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	10
60	Attachment-Learning for Multi-Channel Allocation in Distributed OFDMA-Based Networks. IEEE Transactions on Wireless Communications, 2013, 12, 1712-1721.	9.2	10
61	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
62	Profiling Driver Behavior for Personalized Insurance Pricing and Maximal Profit. , 2018, , .		10
63	Pseudo Trust: Zero-Knowledge Based Authentication in Anonymous Peer-to-Peer Protocols. , 2007, , .		9
64	Detecting unmetered taxi rides from trajectory data. , 2017, , .		9
65	S-Club: an overlay-based efficient service discovery mechanism in CROWN Grid. Knowledge and Information Systems, 2007, 12, 55-75.	3.2	8
66	Throughput Optimization in WLAN/Cellular Integrated Network Using Partially Overlapped Channels. IEEE Transactions on Wireless Communications, 2018, 17, 157-169.	9.2	8
67	HIMM: An HMM-Based Interactive Map-Matching System. Lecture Notes in Computer Science, 2017, , 3-18.	1.3	8
68	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
69	Visual analysis of bi-directional movement behavior. , 2015, , .		7
70	TagFree: Passive object differentiation via physical layer radiometric signatures. , 2017, , .		7
71	Incentive-based scheduling in Grid computing. Concurrency Computation Practice and Experience, 2006, 18, 1729-1746.	2.2	6
72	Localizing Multiple Objects in an RF-based Dynamic Environment. , 2012, , .		6

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73	MViewer: mobile phone spatiotemporal data viewer. <i>Frontiers of Computer Science</i> , 2014, 8, 298-315.	2.4	6
74	Reactive ID Assignment for Wireless Sensor Networks. <i>International Journal of Wireless Information Networks</i> , 2006, 13, 317-328.	2.7	5
75	Digital dividend capacity in China: A developing country's case study. , 2012, , .		5
76	Effective routine behavior pattern discovery from sparse mobile phone data via collaborative filtering. , 2013, , .		5
77	Rethinking big data in a networked world. <i>Frontiers of Computer Science</i> , 2016, 10, 965-967.	2.4	5
78	Generalized Convolutional Sparse Coding With Unknown Noise. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 5386-5395.	9.8	5
79	A semantic-based architecture for sensor networks. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2005, 60, 928-943.	2.5	4
80	BLOSSOMS: Building Lightweight Optimized Sensor Systems on a Massive Scale. <i>Journal of Computer Science and Technology</i> , 2005, 20, 105-177.	1.5	4
81	China's National Research Project on Wireless Sensor Networks. , 2008, , .		4
82	Level the buffer wall: Fair channel assignment in wireless sensor networks. , 2009, , .		4
83	Reuse of GSM White Space Spectrum for Cognitive Femtocell Access. , 2012, , .		4
84	A new MAC protocol design for long-term applications in wireless sensor networks. , 2007, , .		3
85	Secure autoconfiguration and public-key distribution for Mobile Ad-hoc Networks. , 2009, , .		3
86	On Packing Very Large R-trees. , 2012, , .		3
87	Double Free: Measurement-Free Localization for Transceiver-Free Object. , 2014, , .		3
88	Facilitating secure ad hoc service discovery in public environments. , 0, , .		2
89	Popularity Adaptive Search in Hybrid P2P Systems. , 2007, , .		2
90	MDS: Efficient Multi-dimensional Query Processing in Data-Centric WSNs. , 2008, , .		2

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91	LocaToR: Locating Passive RFID Tags with the Relative Neighborhood Graph. , 2010, , .		2
92	Attachment Learning for Multi-channel Allocation in Distributed OFDMA Networks. , 2011, , .		2
93	CUTS: Improving channel utilization in both time and spatial domains in WLANs. , 2013, , .		2
94	Towards Redundancy-Aware Data Utility Maximization in Crowdsourced Sensing with Smartphones. , 2015, , .		2
95	Building Efficient Overlays. Journal of Grid Computing, 2004, 2, 183-192.	3.9	1
96	Low-Overhead Dominating Set based Algorithms for Maximizing Lifetime in Wireless Sensor Networks. , 2007, , .		1
97	BloomCast: Efficient Full-Text Retrieval over Unstructured P2Ps with Guaranteed Recall. , 2009, , .		1
98	BEP: Bit Error Pattern Measurement and Analysis in IEEE 802.11. , 2015, , .		1
99	Event-based non-parametric clustering of team sport trajectories. , 2017, , .		1
100	Zero-shot learning with a partial set of observed attributes. , 2017, , .		1
101	Efficient Detection of Soft Concatenation Mapping. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	5.7	1
102	Energy Efficient Detections of Critical Events in Wireless Sensor Networks. , 2008, , .		0
103	Cognitive sense of China. Frontiers of Computer Science, 2010, 4, 309-310.	0.6	0
104	Access Control Policy Negotiation for Remote Hot-Deployed Grid Services. , 2007, , 127-148.		0