

# Wenye Wang

## 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.

114  
papers

2,922  
citations

22  
h-index

52  
g-index

140  
ext. papers

3,604  
ext. citations

4.7  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
114	Downlink Decoding Based Accurate Measurement of LTE Spectrum Tenancy. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	
113	. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	
112	Resilience of IoT Systems Against Edge-Induced Cascade-of-Failures: A Networking Perspective. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 6952-6963	10.7	7
111	Message coverage maximization in infrastructure-based urban vehicular networks. <i>Vehicular Communications</i> , <b>2019</b> , 16, 1-14	5.7	11
110	LTE Is Vulnerable: Implementing Identity Spoofing and Denial-of-Service Attacks in LTE Networks <b>2019</b> ,		2
109	. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 3404-3413	4.3	6
108	The Aftermath of Broken Links: Resilience of IoT Systems from a Networking Perspective <b>2018</b> ,		1
107	Detection of Infections Using Graph Signal Processing in Heterogeneous Networks <b>2017</b> ,		3
106	From Isolation Time to Node Resilience: Impact of Cascades in D2D-Based Social Networks <b>2017</b> ,		1
105	Modeling and Strategy Design for Spectrum Monitoring over a Geographical Region <b>2017</b> ,		2
104	The Impact of Network Size and Mobility on Information Delivery in Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2016</b> , 15, 217-231	4.6	6
103	Dominoes with communications: On characterizing the progress of cascading failures in Smart Grid <b>2016</b> ,		2
102	Modeling and estimating the structure of D2D-based mobile social networks <b>2016</b> ,		1
101	. <i>IEEE Transactions on Mobile Computing</i> , <b>2016</b> , 15, 2304-2316	4.6	12
100	<b>2016</b> ,		5
99	On the Resilience of D2D-Based Social Networking Service against Random Failures <b>2016</b> ,		6
98	A Locality-Based Mobile Caching Policy for D2D-Based Content Sharing Network <b>2016</b> ,		8

97	Divide and Conquer: Leveraging Topology in Control of Epidemic Information Dynamics <b>2016,</b>		1
96	How the anti-rumor kills the rumor: Conflicting information propagation in networks <b>2016,</b>		2
95	Data-centric threats and their impacts to real-time communications in smart grid. <i>Computer Networks</i> , <b>2016</b> , 104, 174-188	5.4	6
94	On Topology and Resilience of Large-Scale Cognitive Radio Networks Under Generic Failures. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 3390-3401	9.6	3
93	Modeling and Evaluating Denial of Service Attacks for Wireless and Mobile Applications. <i>SpringerBriefs in Computer Science</i> , <b>2015</b> ,	0.4	3
92	Camouflage Traffic: Minimizing Message Delay for Smart Grid Applications under Jamming. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2015</b> , 12, 31-44	3.9	20
91	Claim What You Need: A Text-Mining Approach on Android Permission Request Authorization <b>2015,</b>		2
90	Minimizing Message Delay of Time-Critical Traffic for Wireless Smart Grid Applications Under Jamming. <i>SpringerBriefs in Computer Science</i> , <b>2015</b> , 65-94	0.4	1
89	PPNA special issue on The green, reliability and security of machine-to-machine communications□ <i>Peer-to-Peer Networking and Applications</i> , <b>2014</b> , 7, 213-214	3.1	
88	Exploring device-to-device communication for mobile cloud computing <b>2014,</b>		32
87	Message Dissemination in Intermittently Connected D2D Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 3978-3990	9.6	13
86	Modeling, Evaluation and Detection of Jamming Attacks in Time-Critical Wireless Applications. <i>IEEE Transactions on Mobile Computing</i> , <b>2014</b> , 13, 1746-1759	4.6	67
85	<b>2014,</b>		6
84	Greenbench: A benchmark for observing power grid vulnerability under data-centric threats <b>2014,</b>		21
83	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 4590-4601	6.8	15
82	. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 3360-3371	9.6	49
81	Understanding Blackholes in large-scale Cognitive Radio Networks under generic failures <b>2013,</b>		6
80	An Empirical Study of Communication Infrastructures Towards the Smart Grid: Design, Implementation, and Evaluation. <i>IEEE Transactions on Smart Grid</i> , <b>2013</b> , 4, 170-183	10.7	83

79	Cyber security in the Smart Grid: Survey and challenges. <i>Computer Networks</i> , <b>2013</b> , 57, 1344-1371	5.4	633
78	Scheduling Partition for Order Optimal Capacity in Large-Scale Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 666-679	4.6	3
77	Toward distributed intelligent: A case study of peer to peer communication in smart grid <b>2013</b> ,		1
76	Domino of the smart grid: An empirical study of system behaviors in the interdependent network architecture <b>2013</b> ,		8
75	Horizon on the move: Geocast in intermittently connected vehicular ad hoc networks <b>2013</b> ,		10
74	Modeling and Analytical Study of Link Properties in Multihop Wireless Networks. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 445-455	6.9	40
73	Authentication and Integrity in the Smart Grid: An Empirical Study in Substation Automation Systems. <i>International Journal of Distributed Sensor Networks</i> , <b>2012</b> , 8, 175262	1.7	21
72	Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 1331-1344	4.6	3
71	Understanding the tempo-spatial limits of information dissemination in multi-channel Cognitive Radio Networks <b>2012</b> ,		2
70	Geo-dissemination in vehicular ad hoc networks <b>2012</b> ,		4
69	Development of distributed grid intelligence platform for solid state transformer <b>2012</b> ,		9
68	Architecture of solid state transformer-based energy router and models of energy traffic <b>2012</b> ,		16
67	Enabling adaptive rate and relay selection for 802.11 mobile ad hoc networks <b>2012</b> ,		2
66	On the connectivity of large multi-channel cognitive radio networks <b>2012</b> ,		1
65	On latency distribution and scaling: from finite to large Cognitive Radio Networks under general mobility <b>2012</b> ,		10
64	Energy router: Architectures and functionalities toward Energy Internet <b>2011</b> ,		32
63	A survey on the communication architectures in smart grid. <i>Computer Networks</i> , <b>2011</b> , 55, 3604-3629	5.4	486
62	From security to vulnerability: Data authentication undermines message delivery in smart grid <b>2011</b> ,		1

61	On Network Performance Evaluation toward the Smart Grid: A Case Study of DNP3 over TCP/IP <b>2011,</b>		1
60	. <i>IEEE/ACM Transactions on Networking</i> , <b>2011</b> , 19, 209-222	3.8	3
59	On distribution and limits of information dissemination latency and speed in mobile cognitive radio networks <b>2011,</b>		11
58	Toward robust multi-hop data forwarding in large scale wireless networks. <i>Computer Networks</i> , <b>2011</b> , 55, 2608-2621	5.4	1
57	On the Dissemination Latency of Cognitive Radio Networks under General Node Mobility <b>2011,</b>		2
56	From jammer to gambler: Modeling and detection of jamming attacks against time-critical traffic <b>2011,</b>		36
55	Intermittently Connected Vehicle-to-Vehicle Networks: Detection and Analysis <b>2011,</b>		1
54	On the Connectivity Analysis over Large-Scale Hybrid Wireless Networks <b>2010,</b>		5
53	Intelligent Energy Management of the FREEDM System <b>2010,</b>		14
52	On Order Gain of Backoff Misbehaving Nodes in CSMA/CA-based Wireless Networks <b>2010,</b>		5
51	On the Survivability of Wireless Ad Hoc Networks with Node Misbehaviors and Failures. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2010</b> , 7, 284-299	3.9	38
50	Characterizing the Spread of Correlated Failures in Large Wireless Networks <b>2010,</b>		13
49	Review and evaluation of security threats on the communication networks in the smart grid <b>2010,</b>		91
48	An Experimental Study of the Performance Impact of Path-Based DoS Attacks in Wireless Mesh Networks. <i>Mobile Networks and Applications</i> , <b>2010</b> , 15, 693-709	2.9	3
47	<b>2009,</b>		4
46	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 1546-1560	6.8	13
45	A unified mobility model for analysis and simulation of mobile wireless networks. <i>Wireless Networks</i> , <b>2009</b> , 15, 365-389	2.5	17
44	Empirical study on human mobility for mobile wireless networks <b>2008,</b>		13

43	On the critical phase transition time of wireless multi-hop networks with random failures <b>2008</b> ,		23
42	Self-orienting wireless multimedia sensor networks for occlusion-free viewpoints. <i>Computer Networks</i> , <b>2008</b> , 52, 2558-2567	5.4	45
41	On the Impact of Quality of Protection in Wireless Local Area Networks with IP Mobility. <i>Mobile Networks and Applications</i> , <b>2007</b> , 12, 93-110	2.9	15
40	Analyzing Topology Dynamics in Ad Hoc Networks Using A Smooth Mobility Model <b>2007</b> ,		16
39	On the Expected Connection Lifetime and Stochastic Resilience of Wireless Multi-Hop Networks <b>2007</b> ,		3
38	The Impacts of Radio Channels and Node Mobility on Link Statistics in Mobile Ad Hoc Networks <b>2007</b> ,		5
37	Information security with real-time operation: performance assessment for next generation wireless distributed networked-control-systems <b>2007</b> ,		7
36	Performance Assessment of Data and Time-Sensitive Wireless Distributed Networked-Control-Systems in Presence of Information Security <b>2007</b> ,		5
35	Computing Two-Terminal Reliability in Mobile Ad Hoc Networks <b>2007</b> ,		18
34	LAP: Link-Aware Protection for Improving Performance of Loss and Delay Sensitive Applications in Wireless LANs <b>2007</b> ,		1
33	Effective Coverage and Connectivity Preserving in Wireless Sensor Networks <b>2007</b> ,		12
32	<b>2007</b> ,		3
31	Distributed Coordination of Sensors for End-to-End Reliable Event and Query Delivery <b>2007</b> ,		1
30	. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 3344-3352	9.6	6
29	ART: an asymmetric and reliable transport mechanism for wireless sensor networks. <i>International Journal of Sensor Networks</i> , <b>2007</b> , 2, 188	0.8	50
28	Characterization of data-sensitive wireless distributed networked-control-systems <b>2007</b> ,		5
27	An Experimental Study on Security Protocols in Wlans <b>2007</b> , 295-322		
26	On the Resilient Overlay Topology Formation in Multi-hop Wireless Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 1-12	0.9	2

25	A cost-minimization algorithm for fast location tracking in mobile wireless networks. <i>Computer Networks</i> , <b>2006</b> , 50, 2713-2726	5.4	2
24	Modeling and Analysis of Connectivity in Mobile Ad Hoc Networks with Misbehaving Nodes <b>2006</b> ,		29
23	TTS: A Two-Tiered Scheduling Algorithm for Effective Energy Conservation in Wireless Sensor Networks <b>2006</b> ,		6
22	<b>2006</b> ,		20
21	MEACA: Mobility and Energy Aware Clustering Algorithm for Constructing Stable MANETs <b>2006</b> ,		7
20	Design and Applications of A Smooth Mobility Model for Mobile Ad Hoc Networks <b>2006</b> ,		11
19	DSPM: Dynamic Security Policy Management for Optimizing Performance in Wireless Networks <b>2006</b> ,		1
18	WSN03-4: A Novel Semi-Markov Smooth Mobility Model for Mobile Ad Hoc Networks.. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		25
17	A simulation study of IP-based vertical handoff in wireless convergent networks. <i>Wireless Communications and Mobile Computing</i> , <b>2006</b> , 6, 629-650	1.9	5
16	A survey of cross-layer performance enhancements for Mobile IP networks. <i>Computer Networks</i> , <b>2005</b> , 49, 119-146	5.4	18
15	On performance analysis of challenge/response based authentication in wireless networks. <i>Computer Networks</i> , <b>2005</b> , 48, 267-288	5.4	27
14	Integration of authentication and mobility management in third generation and WLAN data networks. <i>Wireless Communications and Mobile Computing</i> , <b>2005</b> , 5, 665-678	1.9	4
13	The predictive user mobility profile framework for wireless multimedia networks. <i>IEEE/ACM Transactions on Networking</i> , <b>2004</b> , 12, 1021-1035	3.8	115
12	Effective Paging Schemes with Delay Bounds as QoS Constraints in Wireless Systems. <i>Wireless Networks</i> , <b>2001</b> , 7, 455-466	2.5	42
11	Intersystem location update and paging schemes for multitier wireless networks <b>2000</b> ,		40
10	Mobility management in next-generation wireless systems. <i>Proceedings of the IEEE</i> , <b>1999</b> , 87, 1347-1384	14.3	297
9	Mobility management in current and future communications networks. <i>IEEE Network</i> , <b>1998</b> , 12, 39-49	11.4	68
8	A bidirectional reliable transport mechanism for wireless sensor networks		1

7	A local authentication control scheme based on AAA architecture in wireless networks	4
6	A lightweight authentication protocol with local security association control in mobile networks	3
5	An analytical study on the impact of authentication in wireless local area network	3
4	An efficient negotiation protocol for real-time multimedia applications over wireless networks	1
3	A quantitative study of authentication and QoS in wireless IP networks	8
2	A predictive paging scheme for IMT-2000 systems	2
1	A cost-aware control scheme for efficient authentication in wireless networks	1