

Wenye Wang

List of Publications by Citations

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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	Cyber security in the Smart Grid: Survey and challenges. <i>Computer Networks</i> , 2013 , 57, 1344-1371	5.4	633
113	A survey on the communication architectures in smart grid. <i>Computer Networks</i> , 2011 , 55, 3604-3629	5.4	486
112	Mobility management in next-generation wireless systems. <i>Proceedings of the IEEE</i> , 1999 , 87, 1347-1384	14.3	297
111	The predictive user mobility profile framework for wireless multimedia networks. <i>IEEE/ACM Transactions on Networking</i> , 2004 , 12, 1021-1035	3.8	115
110	Review and evaluation of security threats on the communication networks in the smart grid 2010 ,		91
109	An Empirical Study of Communication Infrastructures Towards the Smart Grid: Design, Implementation, and Evaluation. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 170-183	10.7	83
108	Mobility management in current and future communications networks. <i>IEEE Network</i> , 1998 , 12, 39-49	11.4	68
107	Modeling, Evaluation and Detection of Jamming Attacks in Time-Critical Wireless Applications. <i>IEEE Transactions on Mobile Computing</i> , 2014 , 13, 1746-1759	4.6	67
106	ART: an asymmetric and reliable transport mechanism for wireless sensor networks. <i>International Journal of Sensor Networks</i> , 2007 , 2, 188	0.8	50
105	. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 3360-3371	9.6	49
104	Self-orienting wireless multimedia sensor networks for occlusion-free viewpoints. <i>Computer Networks</i> , 2008 , 52, 2558-2567	5.4	45
103	Effective Paging Schemes with Delay Bounds as QoS Constraints in Wireless Systems. <i>Wireless Networks</i> , 2001 , 7, 455-466	2.5	42
102	Modeling and Analytical Study of Link Properties in Multihop Wireless Networks. <i>IEEE Transactions on Communications</i> , 2012 , 60, 445-455	6.9	40
101	Intersystem location update and paging schemes for multitier wireless networks 2000 ,		40
100	On the Survivability of Wireless Ad Hoc Networks with Node Misbehaviors and Failures. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2010 , 7, 284-299	3.9	38
99	From jammer to gambler: Modeling and detection of jamming attacks against time-critical traffic 2011 ,		36
98	Exploring device-to-device communication for mobile cloud computing 2014 ,		32

97	Energy router: Architectures and functionalities toward Energy Internet 2011 ,		32
96	Modeling and Analysis of Connectivity in Mobile Ad Hoc Networks with Misbehaving Nodes 2006 ,		29
95	On performance analysis of challenge/response based authentication in wireless networks. <i>Computer Networks</i> , 2005 , 48, 267-288	5.4	27
94	WSN03-4: A Novel Semi-Markov Smooth Mobility Model for Mobile Ad Hoc Networks.. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		25
93	On the critical phase transition time of wireless multi-hop networks with random failures 2008 ,		23
92	Greenbench: A benchmark for observing power grid vulnerability under data-centric threats 2014 ,		21
91	Authentication and Integrity in the Smart Grid: An Empirical Study in Substation Automation Systems. <i>International Journal of Distributed Sensor Networks</i> , 2012 , 8, 175262	1.7	21
90	Camouflage Traffic: Minimizing Message Delay for Smart Grid Applications under Jamming. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2015 , 12, 31-44	3.9	20
89	2006 ,		20
88	Computing Two-Terminal Reliability in Mobile Ad Hoc Networks 2007 ,		18
87	A survey of cross-layer performance enhancements for Mobile IP networks. <i>Computer Networks</i> , 2005 , 49, 119-146	5.4	18
86	A unified mobility model for analysis and simulation of mobile wireless networks. <i>Wireless Networks</i> , 2009 , 15, 365-389	2.5	17
85	Architecture of solid state transformer-based energy router and models of energy traffic 2012 ,		16
84	Analyzing Topology Dynamics in Ad Hoc Networks Using A Smooth Mobility Model 2007 ,		16
83	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 4590-4601	6.8	15
82	On the Impact of Quality of Protection in Wireless Local Area Networks with IP Mobility. <i>Mobile Networks and Applications</i> , 2007 , 12, 93-110	2.9	15
81	Intelligent Energy Management of the FREEDM System 2010 ,		14
80	Message Dissemination in Intermittently Connected D2D Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 3978-3990	9.6	13

79	Characterizing the Spread of Correlated Failures in Large Wireless Networks 2010 ,		13
78	. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 1546-1560	6.8	13
77	Empirical study on human mobility for mobile wireless networks 2008 ,		13
76	. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 2304-2316	4.6	12
75	Effective Coverage and Connectivity Preserving in Wireless Sensor Networks 2007 ,		12
74	Message coverage maximization in infrastructure-based urban vehicular networks. <i>Vehicular Communications</i> , 2019 , 16, 1-14	5.7	11
73	On distribution and limits of information dissemination latency and speed in mobile cognitive radio networks 2011 ,		11
72	Design and Applications of A Smooth Mobility Model for Mobile Ad Hoc Networks 2006 ,		11
71	Horizon on the move: Geocast in intermittently connected vehicular ad hoc networks 2013 ,		10
70	On latency distribution and scaling: from finite to large Cognitive Radio Networks under general mobility 2012 ,		10
69	Development of distributed grid intelligence platform for solid state transformer 2012 ,		9
68	Domino of the smart grid: An empirical study of system behaviors in the interdependent network architecture 2013 ,		8
67	A quantitative study of authentication and QoS in wireless IP networks		8
66	A Locality-Based Mobile Caching Policy for D2D-Based Content Sharing Network 2016 ,		8
65	Resilience of IoT Systems Against Edge-Induced Cascade-of-Failures: A Networking Perspective. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 6952-6963	10.7	7
64	Information security with real-time operation: performance assessment for next generation wireless distributed networked-control-systems 2007 ,		7
63	MEACA: Mobility and Energy Aware Clustering Algorithm for Constructing Stable MANETs 2006 ,		7
62	The Impact of Network Size and Mobility on Information Delivery in Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 217-231	4.6	6

61	. <i>IEEE Systems Journal</i> , 2018 , 12, 3404-3413	4.3	6
60	Understanding Blackholes in large-scale Cognitive Radio Networks under generic failures 2013 ,		6
59	2014 ,		6
58	TTS: A Two-Tiered Scheduling Algorithm for Effective Energy Conservation in Wireless Sensor Networks 2006 ,		6
57	. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 3344-3352	9.6	6
56	On the Resilience of D2D-Based Social Networking Service against Random Failures 2016 ,		6
55	Data-centric threats and their impacts to real-time communications in smart grid. <i>Computer Networks</i> , 2016 , 104, 174-188	5.4	6
54	On the Connectivity Analysis over Large-Scale Hybrid Wireless Networks 2010 ,		5
53	On Order Gain of Backoff Misbehaving Nodes in CSMA/CA-based Wireless Networks 2010 ,		5
52	The Impacts of Radio Channels and Node Mobility on Link Statistics in Mobile Ad Hoc Networks 2007 ,		5
51	Performance Assessment of Data and Time-Sensitive Wireless Distributed Networked-Control-Systems in Presence of Information Security 2007 ,		5
50	Characterization of data-sensitive wireless distributed networked-control-systems 2007 ,		5
49	A simulation study of IP-based vertical handoff in wireless convergent networks. <i>Wireless Communications and Mobile Computing</i> , 2006 , 6, 629-650	1.9	5
48	2016 ,		5
47	Geo-dissemination in vehicular ad hoc networks 2012 ,		4
46	2009 ,		4
45	A local authentication control scheme based on AAA architecture in wireless networks		4
44	Integration of authentication and mobility management in third generation and WLAN data networks. <i>Wireless Communications and Mobile Computing</i> , 2005 , 5, 665-678	1.9	4

43	On Topology and Resilience of Large-Scale Cognitive Radio Networks Under Generic Failures. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3390-3401	9.6	3
42	Modeling and Evaluating Denial of Service Attacks for Wireless and Mobile Applications. <i>SpringerBriefs in Computer Science</i> , 2015 ,	0.4	3
41	Detection of Infections Using Graph Signal Processing in Heterogeneous Networks 2017 ,		3
40	Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 1331-1344	4.6	3
39	Scheduling Partition for Order Optimal Capacity in Large-Scale Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 666-679	4.6	3
38	. <i>IEEE/ACM Transactions on Networking</i> , 2011 , 19, 209-222	3.8	3
37	An Experimental Study of the Performance Impact of Path-Based DoS Attacks in Wireless Mesh Networks. <i>Mobile Networks and Applications</i> , 2010 , 15, 693-709	2.9	3
36	On the Expected Connection Lifetime and Stochastic Resilience of Wireless Multi-Hop Networks 2007 ,		3
35	2007 ,		3
34	A lightweight authentication protocol with local security association control in mobile networks		3
33	An analytical study on the impact of authentication in wireless local area network		3
32	Dominoes with communications: On characterizing the progress of cascading failures in Smart Grid 2016 ,		2
31	Modeling and Strategy Design for Spectrum Monitoring over a Geographical Region 2017 ,		2
30	Claim What You Need: A Text-Mining Approach on Android Permission Request Authorization 2015 ,		2
29	Understanding the tempo-spatial limits of information dissemination in multi-channel Cognitive Radio Networks 2012 ,		2
28	Enabling adaptive rate and relay selection for 802.11 mobile ad hoc networks 2012 ,		2
27	On the Dissemination Latency of Cognitive Radio Networks under General Node Mobility 2011 ,		2
26	A cost-minimization algorithm for fast location tracking in mobile wireless networks. <i>Computer Networks</i> , 2006 , 50, 2713-2726	5.4	2

25	On the Resilient Overlay Topology Formation in Multi-hop Wireless Networks. <i>Lecture Notes in Computer Science</i> , 2007 , 1-12	0.9	2
24	A predictive paging scheme for IMT-2000 systems		2
23	How the anti-rumor kills the rumor: Conflicting information propagation in networks 2016 ,		2
22	LTE Is Vulnerable: Implementing Identity Spoofing and Denial-of-Service Attacks in LTE Networks 2019 ,		2
21	Modeling and estimating the structure of D2D-based mobile social networks 2016 ,		1
20	From Isolation Time to Node Resilience: Impact of Cascades in D2D-Based Social Networks 2017 ,		1
19	Toward distributed intelligent: A case study of peer to peer communication in smart grid 2013 ,		1
18	From security to vulnerability: Data authentication undermines message delivery in smart grid 2011 ,		1
17	On Network Performance Evaluation toward the Smart Grid: A Case Study of DNP3 over TCP/IP 2011 ,		1
16	Toward robust multi-hop data forwarding in large scale wireless networks. <i>Computer Networks</i> , 2011 , 55, 2608-2621	5.4	1
15	Intermittently Connected Vehicle-to-Vehicle Networks: Detection and Analysis 2011 ,		1
14	On the connectivity of large multi-channel cognitive radio networks 2012 ,		1
13	LAP: Link-Aware Protection for Improving Performance of Loss and Delay Sensitive Applications in Wireless LANs 2007 ,		1
12	Distributed Coordination of Sensors for End-to-End Reliable Event and Query Delivery 2007 ,		1
11	A bidirectional reliable transport mechanism for wireless sensor networks		1
10	DSPM: Dynamic Security Policy Management for Optimizing Performance in Wireless Networks 2006 ,		1
9	An efficient negotiation protocol for real-time multimedia applications over wireless networks		1
8	A cost-aware control scheme for efficient authentication in wireless networks		1

7	Minimizing Message Delay of Time-Critical Traffic for Wireless Smart Grid Applications Under Jamming. <i>SpringerBriefs in Computer Science</i> , 2015 , 65-94	0.4	1
6	Divide and Conquer: Leveraging Topology in Control of Epidemic Information Dynamics 2016 ,		1
5	The Aftermath of Broken Links: Resilience of IoT Systems from a Networking Perspective 2018 ,		1
4	PPNA special issue on The green, reliability and security of machine-to-machine communications□ <i>Peer-to-Peer Networking and Applications</i> , 2014 , 7, 213-214	3.1	
3	An Experimental Study on Security Protocols in Wlans 2007 , 295-322		
2	Downlink Decoding Based Accurate Measurement of LTE Spectrum Tenancy. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	
1	. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 1-1	4.6	