William Liu

List of Publications by Year
in descending order

67 papers	795 citations	1307594 7 h-index	888059 17 g-index
68 all docs	68 docs citations	68 times ranked	1092 citing authors

#	Article	IF	Citations
1	Multi-Attribute Decision Making for Energy-Efficient Public Transport Network Selection in Smart Cities. Future Internet, 2022, 14, 42.	3.8	9
2	Multi-Area Throughput and Energy Optimization of UAV-Aided Cellular Networks Powered by Solar Panels and Grid. IEEE Transactions on Mobile Computing, 2021, 20, 2427-2444.	5.8	33
3	Smart City Taxi Trajectory Coverage and Capacity Evaluation Model for Vehicular Sensor Networks. Sustainability, 2021, 13, 10907.	3.2	6
4	Is it possible to cure Internet addiction with the Internet?. AI and Society, 2020, 35, 245-255.	4.6	3
5	A Neural Network-Based Sustainable Data Dissemination through Public Transportation for Smart Cities. Sustainability, 2020, 12, 10327.	3.2	10
6	Energy-Efficient Massive Data Dissemination through Vehicle Mobility in Smart Cities. Sensors, 2019, 19, 4735.	3.8	9
7	Big Data Offloading using Smart Public Vehicles with Software Defined Connectivity. , 2019, , .		3
8	Information and Communications Technologies for Sustainable Development Goals: State-of-the-Art, Needs and Perspectives. IEEE Communications Surveys and Tutorials, 2018, 20, 2389-2406.	39.4	386
9	An Internal Node Reprogrammable Security Scheme Based on IEEE 802.15.6 in Wireless Body Area Networks. , 2018, , .		0
10	Reservation Based Electric Vehicle Charging Using Battery Switch. , 2018, , .		3
11	Lifetime-Aware ISP Networks: Optimal Formulation and Solutions. IEEE/ACM Transactions on Networking, 2017, 25, 1924-1937.	3.8	7
12	Performance study of block ACK and reverse direction in IEEE 802.11n using a Markov chain model. Journal of Network and Computer Applications, 2017, 78, 170-179.	9.1	5
13	Bringing 5G into Rural and Low-Income Areas: Is It Feasible?. IEEE Communications Standards Magazine, 2017, 1, 50-57.	4.9	90
14	UAV-assisted edge infrastructure for challenged networks. , 2017, , .		35
15	Optimal pricing strategy for 5G in rural areas with unmanned aerial vehicles and large cells. , 2017, , .		9
16	Connecting the unconnected 10% of New Zealanders by 2025: Is a MahiTahi approach possible?. , 2017, , .		7
17	NTaaS: Network trustworthiness as a service. , 2017, , .		2
18	Telco asks transp: Can you give me a ride in the era of big data?. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	A fuzzy logic-based sustainable and trusted routing for P2P enabled smart grid. International Journal of Computational Science and Engineering, 2016, 13, 165.	0.5	2
20	Lifetime-Aware Cloud Data Centers: Models and Performance Evaluation. Energies, 2016, 9, 470.	3.1	7
21	5G in rural and low-income areas: Are we ready?. , 2016, , .		28
22	SustainMe if you can: Sustainable transmission networking design for Big Data. , 2016, , .		0
23	Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. , 2016, , .		1
24	Perspectives on Cyber Science and Technology for Cyberization and Cyber-Enabled Worlds. , 2016, , .		7
25	CatchMe If You Can: Enable Sustainable Communications Using Internet of Movable Things. , 2016, , .		1
26	Dynamic Trust Elective Geo Routing to Secure Smart Grid Communication Networks. Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 323-343.	0.4	0
27	Measuring Cascading Failures for Smart Grids Vulnerability Assessment. , 2015, , .		1
28	Revealing the Role of Topological Transitivity in Efficient Trust and Reputation System in Smart Metering Network. , 2015, , .		5
29	Trust of the Same. International Journal of Information Security and Privacy, 2015, 9, 13-30.	0.8	3
30	When Internet Raised to the Things Power: Are Energy Efficiency Standards Sufficient to Curb Carbon Footprints?. , 2015, , .		2
31	Lifetime-aware networks: It is not what you know but who you know. , 2015, , .		0
32	Exploring the Role of Structural Similarity in Securing Smart Metering Infrastructure. , 2015, , .		4
33	The double-edged sword: Revealing the critical role of structural hole in forming trust for securing Wireless sensor networks. , 2015, , .		0
34	Measuring cascade effects in interdependent networks by using effective graph resistance. , 2015, , .		5
35	Simmelian Ties and Structural Holes: Exploring Their Topological Roles in Forming Trust for Securing Wireless Sensor Networks. , 2015, , .		1
36	Whom You Know Matters: Relook Vehicle-to-Vehicle Communications from a Topological Perspective. Lecture Notes in Computer Science, 2015, , 248-261.	1.3	0

#	ARTICLE	IF	CITATIONS
37	Avoiding the Opportunist: The Role of Simmelian Ties in Fostering the Trust in Sensor-Cloud Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-11.	2.2	0
38	An Authenticated Key Agreement Scheme for Wireless Sensor Networks. Journal of Sensor and Actuator Networks, 2014, 3, 181-206.	3.9	6
39	Dependability and Resource Optimation Analysis for Smart Grid Communication Networks. , 2014, , .		5
40	A User Profile-Aware Policy-Based Management Framework for Greening the Cloud. , 2014, , .		8
41	Inflicting cascade of failures in interdependent networks. , 2014, , .		0
42	Measuring cascade effects in coupled networks using algebraic connectivity. , 2014, , .		0
43	An identity-based authentication protocol for sensor networks. , 2014, , .		1
44	Trust-based Adaptive Routing for Smart Grid Systems. Journal of Information Processing, 2014, 22, 210-218.	0.4	12
45	Security of the Multiple-Key Blomâ€™s Key Agreement Scheme for Sensor Networks. IFIP Advances in Information and Communication Technology, 2014, , 66-79.	0.7	5
46	An Energy Efficient Scheduling Manager for Cloud-Based Mobile Navigation Applications. International Journal of Business Data Communications and Networking, 2014, 10, 47-68.	0.7	0
47	Energy aware survivable routing approaches for Next Generation Networks. , 2013, , .		0
48	An energy aware mobile-controlled handover method for natural disaster situations. , 2013, , .		6
49	The multiple-key blom's scheme for key establishment in mobile ad hoc sensor networks. , 2013, , .		3
50	TIGER: A Trust-based Intelligent Geographical Energy-aware Routing for Smart Grid Communication Networks. , 2013, , .		6
51	EESManager: Making greener cloud apps. , 2013, , .		3
52	Cascade effects of load shedding in coupled networks. , 2013, , .		1
53	A new BlueGreen methodology for designing next generation networks. International Journal of Internet Protocol Technology, 2012, 7, 15.	0.2	0
54	Trust-based geographical routing For smart grid communication networks. , 2012, , .		8

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55	Self-Adjustable Trust-Based Energy Efficient Routing for Smart Grid Systems. , 2012, , .		8
56	Sustaintable Next Generation Networks design: A new BlueGreen approach. , 2011, , .		2
57	Algebraic connectivity metric for spare capacity allocation problem in survivable networks. Computer Communications, 2011, 34, 1425-1435.	5.1	4
58	Pervasive dependability in Wireless Cloud Networking: A novel BlueGreen topological control approach. , 2011, , .		0
59	Building dependable Next Generation Networks (NGNs): A new BlueGreen design philosophy. , 2011, , .		1
60	The Sustainability and Survivabiltiy Network Design for Next Generation Cloud Networking. , 2011, , .		4
61	A new topological index for capacity allocation problem in survivable networks. , 2010, , .		1
62	Utility of algebraic connectivity metric in topology design of survivable networks. , 2009, , .		21
63	A novel distributed resilience matrix for arbitrary failures in spare capacity allocation problem. , 2009, , .		1
64	Weighted algebraic connectivity metric for non-uniform traffic in reliable network design. , 2009, , .		1
65	A novel resilience matrix for survivable routing in a distributed control architecture. , 2009, , .		0
66	Efficacy of Fiedler value versus nodal degree in spare capacity allocation. , 2009, , .		0
67	FoF-R Ant: Ant-Based Survivable Routing Scheme for Shared Path Protection. , 2008, , .		2