

# Zhili Sun

## List of Publications by Year in descending order

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136  
papers

2,458  
citations

279798

23  
h-index

233421

45  
g-index

144  
all docs

144  
docs citations

144  
times ranked

2475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blockchain-Based Dynamic Key Management for Heterogeneous Intelligent Transportation Systems. IEEE Internet of Things Journal, 2017, 4, 1832-1843.	8.7	436
2	Routing in Delay/Disruption Tolerant Networks: A Taxonomy, Survey and Challenges. IEEE Communications Surveys and Tutorials, 2013, 15, 654-677.	39.4	285
3	Efficient location privacy algorithm for Internet of Things (IoT) services and applications. Journal of Network and Computer Applications, 2017, 89, 3-13.	9.1	128
4	Security and Privacy in Location-Based Services for Vehicular and Mobile Communications: An Overview, Challenges, and Countermeasures. IEEE Internet of Things Journal, 2018, 5, 4778-4802.	8.7	108
5	Geographic-Based Spray-and-Relay (GSaR): An Efficient Routing Scheme for DTNs. IEEE Transactions on Vehicular Technology, 2015, 64, 1548-1564.	6.3	67
6	Dynamic Balanced Key Tree Management for Secure Multicast Communications. IEEE Transactions on Computers, 2007, 56, 590-605.	3.4	62
7	Pima Indians diabetes mellitus classification based on machine learning (ML) algorithms. Neural Computing and Applications, 2023, 35, 16157-16173.	5.6	55
8	Trinary Partitioned Black-Burst-Based Broadcast Protocol for Time-Critical Emergency Message Dissemination in VANETs. IEEE Transactions on Vehicular Technology, 2014, 63, 2926-2940.	6.3	54
9	Energy Management in Cross-Domain Content Delivery Networks: A Theoretical Perspective. IEEE Transactions on Network and Service Management, 2014, 11, 264-277.	4.9	50
10	Routing protocol in intervehicle communication systems: a survey. IEEE Communications Magazine, 2011, 49, 150-156.	6.1	47
11	A Survey of Power-Saving Techniques on Data Centers and Content Delivery Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 1334-1354.	39.4	45
12	NOMA-Based Irregular Repetition Slotted ALOHA for Satellite Networks. IEEE Communications Letters, 2019, 23, 624-627.	4.1	42
13	Pseudonym Management Through Blockchain: Cost-Efficient Privacy Preservation on Intelligent Transportation Systems. IEEE Access, 2019, 7, 80390-80403.	4.2	39
14	Securing multicast in DVB-RCS satellite systems. IEEE Wireless Communications, 2005, 12, 38-45.	9.0	38
15	A blockchain based certificate revocation scheme for vehicular communication systems. Future Generation Computer Systems, 2020, 110, 892-903.	7.5	37
16	A Distributed Trust Management Scheme for Data Forwarding in Satellite DTN Emergency Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 246-256.	14.0	35
17	A Reliable and Efficient Encounter-Based Routing Framework for Delay/Disruption Tolerant Networks. IEEE Sensors Journal, 2015, 15, 4004-4018.	4.7	34
18	Time Efficient Data Collection With Mobile Sink and vMIMO Technique in Wireless Sensor Networks. IEEE Systems Journal, 2018, 12, 639-647.	4.6	34

#	ARTICLE	IF	CITATIONS
19	Connected Coverage Optimization for Sensor Scheduling in Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 3877-3892.	4.7	32
20	The efficient framework and algorithm for provisioning evolving VDC in federated data centers. Future Generation Computer Systems, 2017, 73, 79-89.	7.5	32
21	Towards provisioning hybrid virtual networks in federated cloud data centers. Future Generation Computer Systems, 2018, 87, 457-469.	7.5	28
22	A lightweight authentication and privacy-preserving scheme for VANETs using TESLA and Bloom Filters. ICT Express, 2018, 4, 221-227.	4.8	27
23	Traffic predictability based on ARIMA/GARCH model. , 0, , .		26
24	Applications of vehicular communications for reducing fuel consumption and CO <sub>2</sub> emission: the state of the art and research challenges. IEEE Communications Magazine, 2012, 50, 108-115.	6.1	23
25	A Reliable and Efficient Geographic Routing Scheme for Delay/Disruption Tolerant Networks. IEEE Wireless Communications Letters, 2013, 2, 603-606.	5.0	23
26	A Service-Oriented Broker for Bulk Data Transfer in Cloud Computing. , 2010, , .		22
27	A Novel Traffic Light Scheduling Based on TLVC and Vehicles' Priority for Reducing Fuel Consumption and $\text{CO}_2$ Emission. IEEE Systems Journal, 2018, 12, 1230-1238.	4.6	22
28	Performance Evaluation of QUIC with BBR in Satellite Internet. , 2018, , .		22
29	Digital payment fraud detection methods in digital ages and Industry 4.0. Computers and Electrical Engineering, 2022, 100, 107734.	4.8	21
30	Approach-and-Roam (AaR): A Geographic Routing Scheme for Delay/Disruption Tolerant Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 266-281.	6.3	20
31	A Geographic Multicopy Routing Scheme for DTNs With Heterogeneous Mobility. IEEE Systems Journal, 2018, 12, 790-801.	4.6	20
32	Certificateless and Lightweight Authentication Scheme for Vehicular Communication Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 16110-16125.	6.3	20
33	Scalable balanced batch rekeying for secure group communication. Computers and Security, 2006, 25, 265-273.	6.0	19
34	Evaluation of TCP and Internet traffic via low Earth orbit satellites. IEEE Personal Communications, 2001, 8, 28-34.	3.8	18
35	Converge-and-Diverge: A Geographic Routing for Delay/Disruption-Tolerant Networks Using a Delegation Replication Approach. IEEE Transactions on Vehicular Technology, 2013, 62, 2339-2343.	6.3	17
36	Priority based Routing Protocol in Vehicular Ad hoc Network. , 2011, , .		15

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37	Toward Optimized Network Capacity in Emerging Integrated Terrestrial-Satellite Networks. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 263-275.	4.7	14
38	Heuristic Scheduling Algorithms for Allocation of Virtualized Network and Computing Resources. Journal of Software Engineering and Applications, 2013, 06, 1-13.	1.1	13
39	CAINE: a context-aware information-centric network ecosystem. , 2015, 53, 176-183.		13
40	A ranking method for sensor services based on estimation of service access cost. Information Sciences, 2015, 319, 1-17.	6.9	12
41	A DOS-resilient design for delay tolerant networks. , 2011, , .		11
42	Satellite constellation of MEO and IGSO network routing with dynamic grouping. International Journal of Satellite Communications and Networking, 2013, 31, 277-302.	1.8	11
43	Link sleeping and wake-up optimization for energy aware ISP networks. , 2014, , .		11
44	An Efficient, Scalable Key Transport Scheme (ESKTS) for Delay/Disruption Tolerant Networks. Wireless Networks, 2014, 20, 1597-1609.	3.0	10
45	An evaluation of routing in vehicular networks using analytic hierarchy process. Wireless Communications and Mobile Computing, 2016, 16, 895-911.	1.2	10
46	Multihop Broadcast Protocol in Intermittently Connected Vehicular Networks. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 616-628.	4.7	9
47	Study on Research Challenges and Optimization for Internetworking of Hybrid MANET and Satellite Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 90-101.	0.3	9
48	Active Congestion Control Based Routing for Opportunistic Delay Tolerant Networks. , 2011, , .		8
49	A routing framework for Delay Tolerant Networks based on encounter angle. , 2011, , .		8
50	A deep analysis on future web technologies and protocols over broadband GEO satellite networks. International Journal of Satellite Communications and Networking, 2015, 33, 451-472.	1.8	8
51	A Unified Solution for Gateway and In-Network Traffic Load Balancing in Multihop Data Collection Scenarios. IEEE Systems Journal, 2016, 10, 1251-1262.	4.6	8
52	A Pseudonym Certificate Management Scheme Based on Blockchain for Internet of Vehicles. , 2019, , .		8
53	A Reliable Multi-hop Hierarchical Routing Protocol in Wireless Sensor Network (WSN). , 2009, , .		7
54	Enhance IPv6 Dynamic Host Configuration with Cryptographically Generated Addresses. , 2011, , .		7

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55	Priority based routing protocol with reliability enhancement in Vehicular Ad hoc Network. , 2012, , .		7
56	Route strategy of satellite network in GNSS based on topology evolution law. Journal of Systems Engineering and Electronics, 2014, 25, 596-608.	2.2	7
57	Impact of End System scheduling policies on AFDX performance in avionic on-board data network. , 2015, , .		7
58	A collaborative trust management scheme for emergency communication using delay tolerant networks. , 2016, , .		7
59	Publicâ€key infrastructure validation and revocation mechanism suitable for delay/disruption tolerant networks. IET Information Security, 2017, 11, 16-22.	1.7	7
60	Mitigating Denial of Service Attacks in Delay-and Disruption-Tolerant Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 221-234.	0.3	7
61	QoS based Admission Control using Multipath Scheduler for IP over Satellite Networks. International Journal of Electrical and Computer Engineering, 2017, 7, 2958.	0.7	7
62	Self-organizing routing protocol to achieve QoS in wireless sensor network for forest fire monitoring. , 2009, , .		6
63	A mobility vector based routing algorithm for Delay Tolerant Networks using history geographic information. , 2012, , .		6
64	An event-driven clustering-based technique for data monitoring in wireless sensor networks. , 2013, , .		6
65	Analysis of DoS Attacks in Delay Tolerant Networks for Emergency Evacuation. , 2015, , .		6
66	Comparison studies of MANET-satellite and MANET-cellular networks integrations. , 2015, , .		6
67	QoS Routing for MANET and Satellite Hybrid Network to Support Disaster Relives and Management. , 2016, , .		6
68	Dynamic link sleeping reconfigurations for green traffic engineering. International Journal of Communication Systems, 2017, 30, e3224.	2.5	6
69	Asymmetric Spray Based Routing for Delay Tolerant Networks. , 2011, , .		5
70	Optimizing server power consumption in cross-domain content distribution infrastructures. , 2012, , .		5
71	Signaling Performance for SIP over IPv6 Mobile Ad-Hoc Network (MANET). , 2013, , .		5
72	IPv6 networks over DVB-RCS satellite systems. International Journal of Satellite Communications and Networking, 2008, 26, 45-56.	1.8	4

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73	End-to-End QoS Evaluation of IP-Diffserv Network over LEO Satellite Constellation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 99-113.	0.3	4
74	Pseudonymised communication in delay tolerant networks. , 2011, , .		4
75	Trinary Partition Black-Burst based Broadcast Protocol for Emergency Message dissemination in VANET. , 2013, , .		4
76	Privacy-Enhanced Group Communication for Vehicular Delay Tolerant Networks. , 2015, , .		4
77	Token-based Lightweight Authentication Scheme for Vehicle to Infrastructure Communications. , 2019, , .		4
78	ID Based Cryptography and Anonymity in Delay/Disruption Tolerant Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 265-275.	0.3	4
79	Towards Secure IoT-Based Payments by Extension of Payment Card Industry Data Security Standard (PCI Tj ETQq1_1_0.784314 rgBT /Dv 1.2	1.2	4
80	Unicast and multicast IP error performance over an ATM satellite link. IEEE Communications Letters, 2001, 5, 340-342.	4.1	3
81	IP Multicast over Satellite. , 2003, , .		3
82	Scalable Architecture and Evaluation for Multiparty Conferencing Over Satellite Links. IEEE Journal on Selected Areas in Communications, 2004, 22, 594-605.	14.0	3
83	Relative QoS optimization for multiparty online gaming in DiffServ networks. , 2005, 43, 75-83.		3
84	Group Key Management with Network Mobility. , 0, , .		3
85	On-Board Link Layer Relay Mechanism to Enhance TCP in Satellite IP Networks. , 2007, , .		3
86	Performance Evaluation of On-Board QoS Support for Multiservice Applications on the Integrated Next Generation Satellite-Terrestrial Network. , 2008, , .		3
87	Admission control protocols in mobile ad hoc networks provisioning QoS. , 2009, , .		3
88	Access Control Framework for Delay/Disruption Tolerant Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 249-264.	0.3	3
89	An Agent-based Scheme for Supporting Service and Resource Management in Wireless Cloud. , 2010, , .		3
90	Managing Access Control in Delay/Disruption Tolerant Networking (DTN) Environment. , 2011, , .		3

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91	Agent-Based Resource Management for Mobile Cloud. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 118-134.	0.4	3
92	Relative Entropy of Correct Proximal Policy Optimization Algorithms with Modified Penalty Factor in Complex Environment. Entropy, 2022, 24, 440.	2.2	3
93	Cost model for evaluation of SDMB service over integrated satellite-terrestrial UMTS networks. , 0, , .		2
94	New parameters and metrics for multiparty communications. , 0, , .		2
95	Demand Sensitive Model for Tuning Price Over Satellite Digital Multimedia Broadcast System. IEEE Transactions on Broadcasting, 2007, 53, 329-337.	3.2	2
96	TCP Throughput Enhancement via Link Layer Relay in Multi-hop Satellite IP Networks. , 2007, , .		2
97	Quality of service provisioning for delay tolerant network by implementing admission control model for aircrafts bundles data transmission. , 2010, , .		2
98	QoS assurance in MANETs using flow aware admission control &#x2014; Multipath protocol. , 2011, , .		2
99	Flow Aware Admission Control-Multipath protocol with multiple constraints (FAAC-MM) for assurance of multiple QoS metrics in MANETs. , 2011, , .		2
100	DTN QoS metrics and fair resources management model. , 2011, , .		2
101	Replication routing for Delay Tolerant Networking: A hybrid between utility and geographic approach. , 2012, , .		2
102	Come-Stop-Leave (CSL): A geographic routing for Intermittently Connected Networks using delegation replication approach. , 2012, , .		2
103	Evaluation of SIP Signalling and QoS for VoIP over OLSR MANET Routing Protocol. , 2013, , .		2
104	Energy-aware data center management in cross-domain content delivery networks. , 2013, , .		2
105	Performance Optimisation for DSDV in VANETs. , 2015, , .		2
106	Impact of propagation environments on emergency message dissemination in VANETs. , 2015, , .		2
107	Performance analysis of AFDX switch for space onboard data networks. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1714-1727.	4.7	2
108	Green Link Weights for Disruption-Free Energy-Aware Traffic Engineering. IEEE Systems Journal, 2017, 11, 661-672.	4.6	2

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109	Delay Tolerant Revocation Scheme for Delay Tolerant VANETs (DTRvS). Communications in Computer and Information Science, 2017, , 143-164.	0.5	2
110	Evaluation of TCP variants and bandwidth on demand over Next Generation Satellite Network. , 2008, , .		1
111	Fair admission control model for aircrafts bundles data transmission for Delay Tolerant Networks. , 2010, , .		1
112	Spraying the replication probability with geographic assistance for Delay Tolerant Networks. , 2012, , .		1
113	SIP-based internetwork system between Future IP Networks and ZigBee based Wireless Personal Area Networks (WPAN). , 2012, , .		1
114	Providing Authentication in Delay/Disruption Tolerant Networking (DTN) Environment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 189-196.	0.3	1
115	Evaluation of SIP Signalling and QoS for VoIP over MANETs Reactive Routing Protocols. , 2013, , .		1
116	Achieving guaranteed connected coverage by using virtual hexagonal partition in wireless sensor networks. , 2014, , .		1
117	Architecture for satellite services over cryptographically heterogeneous networks with application into smart grid. , 2014, , .		1
118	Enhanced IEEE 802.11 MAC Protocol for Precision Formation Flying-Based Distributed Spacecraft. Wireless Personal Communications, 2014, 79, 375-388.	2.7	1
119	Guest editorial: Smart communications and networking for future deep-space exploration. China Communications, 2020, 17, iii-vi.	3.2	1
120	Quantitative analysis of restricted reliability protocols for constant rate traffic. IEEE Communications Letters, 2003, 7, 466-468.	4.1	0
121	Price Discount over Satellite Digital Multimedia Broadcast System Through a Demand Sensitive Model. , 2007, , .		0
122	A cross-layer quality driven approach in Web service selection. , 2008, , .		0
123	Welcome message from the Technical Program Chairs. , 2009, , .		0
124	QoS Evaluation of HTTP over Satellites. , 2011, , .		0
125	SIP Signaling and QoS for ROHC Based Next Generation MANETs Reactive Routing Protocols. , 2013, , .		0
126	A Cross-Layer Approach to Enhance the Call Setup Performance of SIP-Based VoIP over AODV MANET. , 2014, , .		0



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127	Guest Editorial: Security, privacy and trust in future networks and mobile computing. Journal of Information Security and Applications, 2015, 20, 1-2.	2.5	0
128	A virtual square partition for connected coverage assurance in wireless sensor networks. , 2015, , .		0
129	An Efficient Data Forwarding Approach for LEO Satellite DTNs. , 2017, , .		0
130	Pseudonym Management through Blockchain: Cost-efficient Privacy Preservation on Smart Transportation. , 2021, , 121-150.		0
131	Integration of Linux TCP and Simulation: Verification, Validation and Application. Journal of Networks, 2009, 4, .	0.4	0
132	Fairness and Satisfaction Model for DTN Applications Using Various Transportation Means. Lecture Notes in Computer Science, 2011, , 446-457.	1.3	0
133	Disruption-Free Link Wake-Up Optimisation for Energy Aware Networks. Lecture Notes in Computer Science, 2015, , 3-16.	1.3	0
134	SIP Signaling Implementations and Performance Enhancement over MANET: A Survey. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	0
135	Experimental Privacy Analysis and Characterization for Disconnected VANETs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 119-129.	0.3	0
136	A Security Scheme to Mitigate Denial of Service Attacks in Delay Tolerant Networks. Journal of Computer Sciences and Applications, 2017, 5, 50-63.	3.0	0