

Haojin Zhu

List of Publications by Year in descending order

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157
papers

5,650
citations

136740

32
h-index

133063

59
g-index

165
all docs

165
docs citations

165
times ranked

4759
citing authors

#	ARTICLE	IF	CITATIONS
1	Security and privacy for storage and computation in cloud computing. Information Sciences, 2014, 258, 371-386.	4.0	405
2	Securing smart grid: cyber attacks, countermeasures, and challenges. , 2012, 50, 38-45.		311
3	Security in vehicular ad hoc networks. , 2008, 46, 88-95.		237
4	SMART: A Secure Multilayer Credit-Based Incentive Scheme for Delay-Tolerant Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 4628-4639.	3.9	228
5	Automated poisoning attacks and defenses in malware detection systems: An adversarial machine learning approach. Computers and Security, 2018, 73, 326-344.	4.0	177
6	Pi: A practical incentive protocol for delay tolerant networks. IEEE Transactions on Wireless Communications, 2010, 9, 1483-1493.	6.1	172
7	Privacy Leakage of Location Sharing in Mobile Social Networks: Attacks and Defense. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 646-660.	3.7	154
8	UAV-assisted data gathering in wireless sensor networks. Journal of Supercomputing, 2014, 70, 1142-1155.	2.4	144
9	A Probabilistic Misbehavior Detection Scheme toward Efficient Trust Establishment in Delay-Tolerant Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 22-32.	4.0	142
10	When CSI Meets Public WiFi. , 2016, , .		125
11	NFC Secure Payment and Verification Scheme with CS E-Ticket. Security and Communication Networks, 2017, 2017, 1-9.	1.0	123
12	HoMonit. , 2018, , .		119
13	BECAN: A Bandwidth-Efficient Cooperative Authentication Scheme for Filtering Injected False Data in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 32-43.	4.0	117
14	A novel design for content delivery over software defined mobile social networks. IEEE Network, 2015, 29, 62-67.	4.9	107
15	StormDroid. , 2016, , .		105
16	All your location are belong to us. , 2014, , .		102
17	Human-Factor-Aware Privacy-Preserving Aggregation in Smart Grid. IEEE Systems Journal, 2014, 8, 598-607.	2.9	102
18	Achieving privacy preservation in WiFi fingerprint-based localization. , 2014, , .		95

#	ARTICLE	IF	CITATIONS
19	Location privacy in database-driven Cognitive Radio Networks: Attacks and countermeasures. , 2013, , .		94
20	Security and privacy of collaborative spectrum sensing in cognitive radio networks. IEEE Wireless Communications, 2012, 19, 106-112.	6.6	88
21	Security in service-oriented vehicular networks. IEEE Wireless Communications, 2009, 16, 16-22.	6.6	82
22	Securing Consumer IoT in the Smart Home: Architecture, Challenges, and Countermeasures. IEEE Wireless Communications, 2018, 25, 53-59.	6.6	82
23	Location privacy preservation in collaborative spectrum sensing. , 2012, , .		81
24	Multicloud-Based Evacuation Services for Emergency Management. IEEE Cloud Computing, 2014, 1, 50-59.	5.3	79
25	SDSM: A secure data service mechanism in mobile cloud computing. , 2011, , .		77
26	SecCloud: Bridging Secure Storage and Computation in Cloud. , 2010, , .		75
27	Invisible Backdoor Attacks on Deep Neural Networks via Steganography and Regularization. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	72
28	An Intelligent Secure and Privacy-Preserving Parking Scheme Through Vehicular Communications. IEEE Transactions on Vehicular Technology, 2010, 59, 2772-2785.	3.9	67
29	SLAB: A secure localized authentication and billing scheme for wireless mesh networks. IEEE Transactions on Wireless Communications, 2008, 7, 3858-3868.	6.1	62
30	A Federated Learning Based Privacy-Preserving Smart Healthcare System. IEEE Transactions on Industrial Informatics, 2022, 18, 2021-2031.	7.2	62
31	Network Coding Based Privacy Preservation against Traffic Analysis in Multi-Hop Wireless Networks. IEEE Transactions on Wireless Communications, 2011, 10, 834-843.	6.1	59
32	You Can Jam But You Cannot Hide: Defending Against Jamming Attacks for Geo-Location Database Driven Spectrum Sharing. IEEE Journal on Selected Areas in Communications, 2016, 34, 2723-2737.	9.7	54
33	Secret Key Establishment via RSS Trajectory Matching Between Wearable Devices. IEEE Transactions on Information Forensics and Security, 2018, 13, 802-817.	4.5	53
34	Achieving Differentially Private Location Privacy in Edge-Assistant Connected Vehicles. IEEE Internet of Things Journal, 2019, 6, 4472-4481.	5.5	52
35	A Novel Anonymous Mutual Authentication Protocol With Provable Link-Layer Location Privacy. IEEE Transactions on Vehicular Technology, 2009, 58, 1454-1466.	3.9	48
36	Fairness-Aware and Privacy-Preserving Friend Matching Protocol in Mobile Social Networks. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 192-200.	3.2	48

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37	WiVo. , 2018, , .		47
38	Location Privacy in Usage-Based Automotive Insurance: Attacks and Countermeasures. IEEE Transactions on Information Forensics and Security, 2019, 14, 196-211.	4.5	45
39	Privacy Leakage via De-Anonymization and Aggregation in Heterogeneous Social Networks. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 350-362.	3.7	43
40	Detecting Vehicle Anomaly in the Edge via Sensor Consistency and Frequency Characteristic. IEEE Transactions on Vehicular Technology, 2019, 68, 5618-5628.	3.9	37
41	MobilD: A User-Centric and Social-Aware Reputation Based Incentive Scheme for Delay/Disruption Tolerant Networks. Lecture Notes in Computer Science, 2011, , 177-190.	1.0	36
42	A novel localised authentication scheme in IEEE 802.11 based Wireless Mesh Networks. International Journal of Security and Networks, 2008, 3, 122.	0.1	34
43	An Opportunistic Batch Bundle Authentication Scheme for Energy Constrained DTNs. , 2010, , .		34
44	MixZone in Motion: Achieving Dynamically Cooperative Location Privacy Protection in Delay-Tolerant Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 4565-4575.	3.9	34
45	PPAB: A Privacy-Preserving Authentication and Billing Architecture for Metropolitan Area Sharing Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 2529-2543.	3.9	33
46	Demographics inference through Wi-Fi network traffic analysis. , 2016, , .		31
47	Privacy-Preserving Location Proof for Securing Large-Scale Database-Driven Cognitive Radio Networks. IEEE Internet of Things Journal, 2016, 3, 563-571.	5.5	31
48	Location Privacy Preserving Dynamic Spectrum Auction in Cognitive Radio Network. , 2013, , .		30
49	Demographic Information Inference through Meta-Data Analysis of Wi-Fi Traffic. IEEE Transactions on Mobile Computing, 2018, 17, 1033-1047.	3.9	29
50	An efficient dynamic-identity based signature scheme for secure network coding. Computer Networks, 2010, 54, 28-40.	3.2	28
51	Optimal strategies for defending location inference attack in database-driven CRNs. , 2015, , .		27
52	An attack-and-defence game for security assessment in vehicular ad hoc networks. Peer-to-Peer Networking and Applications, 2014, 7, 215-228.	2.6	26
53	RENDEZVOUS: towards fast event detecting in wireless sensor and actor networks. Computing (Vienna/New York), 2014, 96, 995-1010.	3.2	26
54	Robust Reputation-Based Cooperative Spectrum Sensing via Imperfect Common Control Channel. IEEE Transactions on Vehicular Technology, 2018, 67, 3950-3963.	3.9	26

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55	$\mathcal{EP}^2\mathcal{DF}$: An Efficient Privacy-Preserving Data-Forwarding Scheme for Service-Oriented Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 580-591.	3.9	25
56	Voiceprint Mimicry Attack Towards Speaker Verification System in Smart Home. , 2020, , .		25
57	A Novel Attack Tree Based Risk Assessment Approach for Location Privacy Preservation in the VANETs. , 2011, , .		24
58	Mutual privacy-preserving regression modeling in participatory sensing. , 2013, , .		24
59	An enhanced authenticated key agreement protocol for wireless mobile communication. Computer Standards and Interfaces, 2007, 29, 647-652.	3.8	23
60	Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. IEEE Internet of Things Journal, 2021, 8, 6757-6770.	5.5	23
61	No Training Hurdles. , 2018, , .		20
62	Dynamic Traffic Feature Camouflaging via Generative Adversarial Networks. , 2019, , .		20
63	Believe Yourself: A User-Centric Misbehavior Detection Scheme for Secure Collaborative Spectrum Sensing. , 2011, , .		19
64	You are where you have been: Sybil detection via geo-location analysis in OSNs. , 2014, , .		19
65	SPFM: Scalable and Privacy-Preserving Friend Matching in Mobile Cloud. IEEE Internet of Things Journal, 2017, 4, 583-591.	5.5	19
66	Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. IEEE Transactions on Mobile Computing, 2020, 19, 432-449.	3.9	19
67	Smart contract for secure billing in ride-hailing service via blockchain. Peer-to-Peer Networking and Applications, 2019, 12, 1346-1357.	2.6	18
68	A Novel Fair Incentive Protocol for Mobile Ad Hoc Networks. , 2008, , .		17
69	HVSTO: Efficient privacy preserving hybrid storage in cloud data center. , 2014, , .		17
70	Automated and Personalized Privacy Policy Extraction Under GDPR Consideration. Lecture Notes in Computer Science, 2019, , 43-54.	1.0	16
71	Toward Optimal DoS-Resistant Authentication in Crowdsensing Networks via Evolutionary Game. , 2016, , .		15
72	Virtual Multipath Attack and Defense for Location Distinction in Wireless Networks. IEEE Transactions on Mobile Computing, 2017, 16, 566-580.	3.9	15

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73	Fake reviews tell no tales? dissecting click farming in content-generated social networks. China Communications, 2018, 15, 98-109.	2.0	15
74	A secure incentive scheme for delay tolerant networks. , 2008, , .		14
75	PMDS: A probabilistic misbehavior detection scheme in DTN. , 2012, , .		14
76	YouSense: Mitigating entropy selfishness in distributed collaborative spectrum sensing. , 2013, , .		14
77	A Functional Co-Design towards Safe and Secure Vehicle Platooning. , 2017, , .		14
78	Speed-Based Location Tracking in Usage-Based Automotive Insurance. , 2017, , .		14
79	MobiKey: Mobility-Based Secret Key Generation in Smart Home. IEEE Internet of Things Journal, 2020, 7, 7590-7600.	5.5	14
80	An Adaptive Deviation-tolerant Secure Scheme for distributed cooperative spectrum sensing. , 2012, , .		13
81	Information leaks out: Attacks and countermeasures on compressive data gathering in wireless sensor networks. , 2014, , .		13
82	A robust $(k,n)+1$ threshold proxy signature scheme based on factoring. Applied Mathematics and Computation, 2005, 166, 35-45.	1.4	12
83	Where are you from?. , 2014, , .		12
84	Provably secure robust threshold partial blind signature. Science in China Series F: Information Sciences, 2006, 49, 604-615.	1.1	11
85	Sybil-aware least cost rumor blocking in social networks. , 2014, , .		11
86	PIE: cooperative peer-to-peer information exchange in network coding enabled wireless networks. IEEE Transactions on Wireless Communications, 2010, 9, 945-950.	6.1	10
87	Modeling Privacy Leakage Risks in Large-Scale Social Networks. IEEE Access, 2018, 6, 17653-17665.	2.6	10
88	Short-term effect of a smart nebulizing device on adherence to inhaled corticosteroid therapy in Asthma Predictive Index-positive wheezing children. Patient Preference and Adherence, 2018, Volume 12, 861-868.	0.8	10
89	Privacy-Preserving Task Scheduling for Time-Sharing Services of Autonomous Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5260-5270.	3.9	10
90	Location privacy leaking from spectrum utilization information in database-driven cognitive radio network. , 2012, , .		9

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91	A Scalable and Privacy-Preserving Named Data Networking Architecture Based on Bloom Filters. , 2013, , .		9
92	Securing android applications via edge assistant third-party library detection. Computers and Security, 2019, 80, 257-272.	4.0	9
93	Security Assessment via Attack Tree Model. SpringerBriefs in Computer Science, 2013, , 9-16.	0.2	8
94	Pri-RTB: Privacy-preserving real-time bidding for securing mobile advertisement in ubiquitous computing. Information Sciences, 2019, 504, 354-371.	4.0	8
95	Who Leaks My Privacy: Towards Automatic and Association Detection with GDPR Compliance. Lecture Notes in Computer Science, 2019, , 137-148.	1.0	8
96	TTP Based Privacy Preserving Inter-WISP Roaming Architecture for Wireless Metropolitan Area Networks. , 2007, , .		7
97	MobiGame: A User-Centric Reputation Based Incentive Protocol for Delay/Disruption Tolerant Networks. , 2011, , .		7
98	How to design space efficient revocable IBE from non-monotonic ABE. , 2011, , .		7
99	EdgeSense: Edge-Mediated Spatial- Temporal Crowdsensing. IEEE Access, 2019, 7, 95122-95131.	2.6	7
100	Liveness Detection for Voice User Interface via Wireless Signals in IoT Environment. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	7
101	Thwarting Unauthorized Voice Eavesdropping via Touch Sensing in Mobile Systems. , 2022, , .		7
102	L-WMxD: Lexical based Webmail XSS Discoverer. , 2011, , .		6
103	De-anonymizing social networks: Using user interest as a side-channel. , 2015, , .		6
104	Early Detection of Disease Using Electronic Health Records and Fisherâ€™s Wishart Discriminant Analysis. Procedia Computer Science, 2018, 140, 393-402.	1.2	6
105	Measuring and Analyzing Search Engine Poisoning of Linguistic Collisions. , 2019, , .		6
106	A New Dynamic Group Key Management Scheme with Low Rekeying Cost. , 2008, , .		5
107	Automatic inference of movements from contact histories. , 2011, , .		5
108	Efficient and secure message authentication in cooperative driving: A game-theoretic approach. , 2016, , .		5

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109	Hybrid de-anonymization across real-world heterogeneous social networks. , 2017, , .		5
110	Security Modeling and Analysis on Intra Vehicular Network. , 2017, , .		5
111	Detecting Vehicle Anomaly by Sensor Consistency: An Edge Computing Based Mechanism. , 2018, , .		5
112	Edge-Assisted Stream Scheduling Scheme for the Green-Communication-Based IoT. IEEE Internet of Things Journal, 2019, 6, 7282-7292.	5.5	5
113	Automatic Permission Optimization Framework for Privacy Enhancement of Mobile Applications. IEEE Internet of Things Journal, 2021, 8, 7394-7406.	5.5	5
114	BBA: An Efficient Batch Bundle Authentication Scheme for Delay Tolerant Networks. , 2008, , .		4
115	Automatic inference of movements from contact histories. Computer Communication Review, 2011, 41, 386-387.	1.5	4
116	PriMatch: Fairness-aware secure friend discovery protocol in mobile social network. , 2012, , .		4
117	Quality of experience and quality of protection provisions in emerging mobile networks [Guest Editorial]. IEEE Wireless Communications, 2015, 22, 8-9.	6.6	4
118	A Traffic Based Lightweight Attack Detection Scheme for VoLTE. , 2016, , .		4
119	Automatic Detection of SIP-Aware Attacks on VoLTE Device. , 2016, , .		4
120	Who Moved My Cheese: Towards Automatic and Fine-Grained Classification and Modeling Ad Network. , 2016, , .		4
121	Privacy-Preserving Fraud Detection via Cooperative Mobile Carriers with Improved Accuracy. , 2017, , .		4
122	APPCLASSIFIER: Automated App Inference on Encrypted Traffic via Meta Data Analysis. , 2018, , .		4
123	A novel routing verification approach based on blockchain for inter-domain routing in smart metropolitan area networks. Journal of Parallel and Distributed Computing, 2020, 142, 77-89.	2.7	4
124	How to Construct Interval Encryption from Binary Tree Encryption. Lecture Notes in Computer Science, 2010, , 19-34.	1.0	4
125	NIS01-5: A Novel Voting Mechanism for Compromised Node Revocation in Wireless Ad Hoc Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	3
126	Cooperative Peer-to-Peer Information Exchange via Wireless Network Coding. , 2009, , .		3

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127	Towards a game theoretical modeling of rational collaborative spectrum sensing in Cognitive Radio networks. , 2012, , .		3
128	ANTS: Pushing the rapid event notification in wireless sensor and actor networks. , 2013, , .		3
129	A Secure and Efficient Data Aggregation Framework in Vehicular Sensing Networks. International Journal of Distributed Sensor Networks, 2013, 9, 298059.	1.3	3
130	Constant-round adaptive zero-knowledge proofs for NP. Information Sciences, 2014, 261, 219-236.	4.0	3
131	Guest editorial: Security and privacy of P2P networks in emerging smart city. Peer-to-Peer Networking and Applications, 2015, 8, 1023-1024.	2.6	3
132	NFC Secure Payment and Verification Scheme for Mobile Payment. Lecture Notes in Computer Science, 2016, , 116-125.	1.0	3
133	A Video-Selection-Encryption Privacy Protection Scheme Based on Machine Learning in Smart Home Environment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 65-76.	0.2	3
134	No-jump-into-latency in China's internet!. , 2019, , .		3
135	Wireless Training-Free Keystroke Inference Attack and Defense. IEEE/ACM Transactions on Networking, 2022, 30, 1733-1748.	2.6	3
136	WiCapose: Multi-modal fusion based transparent authentication in mobile environments. Journal of Information Security and Applications, 2022, 66, 103130.	1.8	3
137	Security in cognitive radio networks [Guest Editorial]. IEEE Network, 2013, 27, 2-3.	4.9	2
138	Detecting GPS information leakage in Android applications. , 2013, , .		2
139	A localized backbone renovating algorithm for wireless ad hoc and sensor networks. , 2013, , .		2
140	Cloud-based privacy-preserving aggregation architecture in multi-domain wireless networks. Security and Communication Networks, 2016, 9, 1905-1915.	1.0	2
141	Attack-Defense Tree Based Security Assessment. SpringerBriefs in Computer Science, 2013, , 17-22.	0.2	2
142	Accelerating authenticated emergence message propagation to mitigate chain-reaction accidents in highway traffic. , 2009, , .		1
143	A Paralleling Broadcast Authentication Protocol for Sparse RSUs in Internet of Vehicles. , 2014, , .		1
144	SmartSec: Secret sharing-based location-aware privacy enhancement in smart devices. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
145	Fake reviews tell no tales? Dissecting click farming in content-generated social networks. , 2017, , .		1
146	Corrections to "Secret Key Establishment via RSS Trajectory Matching Between Wearable Devices" [Mar 18 802-817]. IEEE Transactions on Information Forensics and Security, 2018, 13, 1595-1595.	4.5	1
147	Advances in privacy-preserving computing. Peer-to-Peer Networking and Applications, 2021, 14, 1348-1352.	2.6	1
148	Detect SIP Flooding Attacks in VoLTE by Utilizing and Compressing Counting Bloom Filter. Lecture Notes in Computer Science, 2017, , 124-135.	1.0	1
149	Secure Localized Authentication and Billing for Wireless Mesh Networks. , 2007, , .		0
150	Towards addressing group selfishness of cluster-based collaborative spectrum sensing in cognitive radio networks. , 2012, , .		0
151	Cyber security, crime, and forensics of wireless networks and applications. Security and Communication Networks, 2016, 9, 3763-3764.	1.0	0
152	Guest editorial: Special issue on algorithms, systems and applications in mobile social networks. Peer-to-Peer Networking and Applications, 2017, 10, 293-295.	2.6	0
153	Detect and Prevent SIP Flooding Attacks in VoLTE by Utilizing a Two-Tier PFilter Design. IEICE Transactions on Information and Systems, 2017, E100.D, 2287-2294.	0.4	0
154	An Ensemble Approach for Suspicious Traffic Detection from High Recall Network Alerts. , 2019, , .		0
155	Collective Memory for Detecting Nonconcurrent Clones: A Localized Approach for Global Topology and Identity Tracing in IoT Networks. IEEE Internet of Things Journal, 2021, 8, 5762-5777.	5.5	0
156	A VANETs Attack-Defense Game. SpringerBriefs in Computer Science, 2013, , 23-34.	0.2	0
157	An Enhanced Verifiable Inter-domain Routing Protocol Based on Blockchain. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 63-82.	0.2	0