Aiqun Hu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2585377/publications.pdf

Version: 2024-02-01

85 papers	1,563 citations	394421 19 h-index	361022 35 g-index
85 all docs	85 docs citations	85 times ranked	571 citing authors

#	Article	IF	Citations
1	Design of a Hybrid RF Fingerprint Extraction and Device Classification Scheme. IEEE Internet of Things Journal, 2019, 6, 349-360.	8.7	167
2	Deep Learning Based RF Fingerprint Identification Using Differential Constellation Trace Figure. IEEE Transactions on Vehicular Technology, 2020, 69, 1091-1095.	6.3	156
3	A Robust RF Fingerprinting Approach Using Multisampling Convolutional Neural Network. IEEE Internet of Things Journal, 2019, 6, 6786-6799.	8.7	125
4	High-Agreement Uncorrelated Secret Key Generation Based on Principal Component Analysis Preprocessing. IEEE Transactions on Communications, 2018, 66, 3022-3034.	7.8	85
5	A New Frontier for IoT Security Emerging From Three Decades of Key Generation Relying on Wireless Channels. IEEE Access, 2020, 8, 138406-138446.	4.2	73
6	Physical Layer Key Generation in 5G and Beyond Wireless Communications: Challenges and Opportunities. Entropy, 2019, 21, 497.	2.2	58
7	On Radio Frequency Fingerprint Identification for DSSS Systems in Low SNR Scenarios. IEEE Communications Letters, 2018, 22, 2326-2329.	4.1	55
8	Detection and Mitigation of DoS Attacks in Software Defined Networks. IEEE/ACM Transactions on Networking, 2020, 28, 1419-1433.	3.8	45
9	A Generalizable Model-and-Data Driven Approach for Open-Set RFF Authentication. IEEE Transactions on Information Forensics and Security, 2021, 16, 4435-4450.	6.9	42
10	An Investigation of Using Loop-Back Mechanism for Channel Reciprocity Enhancement in Secret Key Generation. IEEE Transactions on Mobile Computing, 2019, 18, 507-519.	5.8	37
11	Radio Frequency Fingerprint Identification Based on Denoising Autoencoders. , 2019, , .		37
12	Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation. IEEE Internet of Things Journal, 2021, 8, 357-369.	8.7	37
13	Location-Invariant Physical Layer Identification Approach for WiFi Devices. IEEE Access, 2019, 7, 106974-106986.	4.2	35
14	Constructing Reciprocal Channel Coefficients for Secret Key Generation in FDD Systems. IEEE Communications Letters, 2018, 22, 2487-2490.	4.1	30
15	A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. IEEE Internet of Things Journal, 2021, 8, 11276-11289.	8.7	30
16	A differential constellation trace figure based device identification method for ZigBee nodes. , 2016, , .		28
17	On Maximizing the Sum Secret Key Rate for Reconfigurable Intelligent Surface-Assisted Multiuser Systems. IEEE Transactions on Information Forensics and Security, 2022, 17, 211-225.	6.9	28
18	Sum Secret Key Rate Maximization for TDD Multi-User Massive MIMO Wireless Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 968-982.	6.9	27

#	Article	IF	Citations
19	Deep-Learning-Based Physical-Layer Secret Key Generation for FDD Systems. IEEE Internet of Things Journal, 2022, 9, 6081-6094.	8.7	27
20	Griffin: Real-Time Network Intrusion Detection System via Ensemble of Autoencoder in SDN. IEEE Transactions on Network and Service Management, 2022, 19, 2269-2281.	4.9	26
21	Design of a Robust Radio-Frequency Fingerprint Identification Scheme for Multimode LFM Radar. IEEE Internet of Things Journal, 2020, 7, 10581-10593.	8.7	23
22	LTE Device Identification Based on RF Fingerprint with Multi-Channel Convolutional Neural Network. , 2021, , .		22
23	WebLogger: Stealing your personal PINs via mobile web application. , 2017, , .		21
24	Security Analysis of a Novel Artificial Randomness Approach for Fast Key Generation. , 2017, , .		21
25	Design of a Robust RF Fingerprint Generation and Classification Scheme for Practical Device Identification. , 2019, , .		18
26	Reconfigurable Intelligent Surface Assisted Secret Key Generation in Quasi-Static Environments. IEEE Communications Letters, 2022, 26, 244-248.	4.1	18
27	I Know What You Type: Leaking User Privacy via Novel Frequency-Based Side-Channel Attacks. , 2018, , .		17
28	A Hybrid Information Reconciliation Method for Physical Layer Key Generation. Entropy, 2019, 21, 688.	2.2	17
29	A Data-Independent Radio Frequency Fingerprint Extraction Scheme. IEEE Wireless Communications Letters, 2021, 10, 2524-2527.	5.0	16
30	Secret Key Generation Scheme Based on the Channel Covariance Matrix Eigenvalues in FDD Systems. IEEE Communications Letters, 2019, 23, 1493-1496.	4.1	15
31	Novel attacks in OSPF networks to poison routing table. , 2017, , .		11
32	Securing M2M Transmissions Using Nonreconciled Secret Keys Generated from Wireless Channels. , 2018, , .		11
33	LoRa radio frequency fingerprint identification based on frequency offset characteristics and optimized LoRaWAN access technology. , 2021, , .		11
34	You Can Hear But You Cannot Record: Privacy Protection by Jamming Audio Recording. , 2021, , .		11
35	A Design of Deep Learning Based Optical Fiber Ethernet Device Fingerprint Identification System. , 2019, , .		10
36	Fast and Secure Key Generation with Channel Obfuscation in Slowly Varying Environments. , 2022, , .		10

#	Article	IF	Citations
37	A Robust Radio Frequency Fingerprint Identification Scheme for LFM Pulse Radars. , 2019, , .		9
38	On the RIS Manipulating Attack and Its Countermeasures in Physical-layer Key Generation. , 2021, , .		9
39	Lightweight Group Secret Key Generation Leveraging Non-Reconciled Received Signal Strength in Mobile Wireless Networks. , 2019, , .		8
40	Generative adversarial network-based rogue device identification using differential constellation trace figure. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	8
41	Radio frequency fingerprint identification based on stream differential constellation trace figures. Physical Communication, 2021, 49, 101458.	2.1	7
42	Robust Key Generation With Hardware Mismatch for Secure MIMO Communications. IEEE Transactions on Information Forensics and Security, 2021, 16, 5264-5278.	6.9	7
43	An Artificial Radio Frequency Fingerprint Embedding Scheme for Device Identification. IEEE Communications Letters, 2022, 26, 974-978.	4.1	7
44	Two-Stage Channel Estimation Algorithm forÂTD-SCDMA System Employing Multi-Cell Joint Detection. Circuits, Systems, and Signal Processing, 2007, 26, 961-968.	2.0	6
45	An Integer Time Delay Estimation Algorithm Based on Zadoffâ€“Chu Sequence in OFDM Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 2941-2947.	6.3	6
46	Detecting Hardware Trojan through Time Domain Constrained Estimator Based Unified Subspace Technique. IEICE Transactions on Information and Systems, 2014, E97.D, 606-609.	0.7	6
47	A Novel Transform for Secret Key Generation in Time-Varying TDD Channel under Hardware Fingerprint Deviation. , 2015, , .		6
48	The Optimal Preprocessing Approach for Secret Key Generation from OFDM Channel Measurements. , 2016, , .		5
49	An Improved Key Generation Scheme Based on Multipath Channel Measurements. Chinese Journal of Electronics, 2017, 26, 185-191.	1.5	5
50	Non-interactive Identity-Based Underwater Data Transmission With Anonymity and Zero Knowledge. IEEE Transactions on Vehicular Technology, 2018, 67, 1726-1739.	6.3	5
51	Importance-based entropy measures of complex networksâ€™ robustness to attacks. Cluster Computing, 2019, 22, 3981-3988.	5.0	5
52	A lightweight physical-layer based security strategy for Internet of things. Cluster Computing, 2019, 22, 12971-12983.	5.0	5
53	Throughput and BER of wireless powered DF relaying in Nakagami-m fading. Science China Information Sciences, 2017, 60, 1.	4.3	4
54	An Adaptive Information Reconciliation Protocol for Physical-Layer Based Secret Key Generation. , 2019, , .		4

#	Article	IF	Citations
55	Improved collusionâ€resistant unidirectional proxy reâ€encryption scheme from lattice. IET Information Security, 2020, 14, 342-351.	1.7	4
56	EVAL Cane: Nonintrusive Monitoring Platform With a Novel Gait-Based User-Identification Scheme. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	4
57	Adaptive Filter-Based Approach for PHY Fingerprints Extraction of Fast Ethernet Network. , 2021, , .		4
58	Radio Frequency Fingerprint-Based DSRC Intelligent Vehicle Networking Identification Mechanism in High Mobility Environment. Sustainability, 2022, 14, 5037.	3.2	4
59	Virtual MIMO-based cooperative beamforming and jamming scheme for the clustered wireless sensor network security. , 2016, , .		3
60	Blind DCTF-based estimation of carrier frequency offset for RF fingerprint extraction. , 2016, , .		3
61	A Method of Android Application Forensics Based on Heap Memory Analysis. , 2018, , .		3
62	A Booting Fingerprint of Device for Network Access Control. , 2019, , .		3
63	A LoRa-Based Lightweight Secure Access Enhancement System. Security and Communication Networks, 2021, 2021, 1-16.	1.5	3
64	An Extension of DTFT-Based Sinusoidal Signal Time Delay Estimation Algorithm for Linear Time-Varying Situation. , 2013, , .		2
65	MISO secrecy transmission via designing artificial noise by receiver under perfect and imperfect CSI. , 2016, , .		2
66	Performance Analysis of Concatenated Error Correction Code in Secret Key Generation System. , 2019, , .		2
67	Data desensitization mechanism of Android application based on differential privacy. , 2021, , .		2
68	An All-data-segment Radio Frequency Fingerprint Extraction Method Based on Cross-power Spectrum. , 2022, , .		2
69	A knowledge-enriched ensemble method for word embedding and multi-sense embedding. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	5.7	2
70	Trust relationships in secure mobile systems. , 2013, , .		1
71	A novel artificial noise aided security scheme to resist blind source separation attacks. Science Bulletin, 2014, 59, 4225-4234.	1.7	1
72	Channel reciprocity improvement of secret key generation with loop-back transmissions. , 2017, , .		1

#	Article	IF	Citations
73	Energy Selected Transmitter RF Fingerprint Estimation in Multi-Antenna OFDM Systems. , 2018, , .		1
74	A Simulation and Experimental Study of Channel Reciprocity in TDD and FDD Wiretap Channels. , 2019, , .		1
75	Exploiting Artificial Randomness for Fast Secret Key Generation in Quasi-static Environments. , 2021, , .		1
76	A R-ASK OFDM Modulation and Demodulation Scheme Against Vocoder Compression. , 2021, , .		1
77	Task-Oriented Network Abnormal Behavior Detection Method. Security and Communication Networks, 2022, 2022, 1-13.	1.5	1
78	A novel link adaptation scheme to enhance performance of IEEE 802.11g wireless LAN. Journal of Electronics, 2006, 23, 350-354.	0.2	0
79	Efficient transitive trust model for mobile terminal. , 2012, , .		0
80	A private-data protection mechanism for trusted mobile platform. , 2012, , .		0
81	Trusted mobile model based on DTE technology. International Journal of Information Security, 2015, 14, 457-469.	3.4	0
82	Analysis of non-reciprocity factors in extracting secret key from wireless channels for practical indoor scenarios. , 2016, , .		0
83	Lightweight Group Key Distribution Method Based on High Similar Wireless Channel Characteristics. , 2018, , .		0
84	LOBBY: A Novel Physical-layer Key Generation Method. , 2021, , .		0
85	Secret Key Generation for FDD Systems Based on Complex-Valued Neural Network. , 2021, , .		0