Thaier Hayajneh, Ph D, Smieee

List of Publications by Year
in descending order

75 papers	2,701 citations	304368 22 h-index	301761 39 g-index
76 all docs	76 docs citations	76 times ranked	2545 citing authors

#	Article	IF	Citations
1	Healthcare Blockchain System Using Smart Contracts for Secure Automated Remote Patient Monitoring. Journal of Medical Systems, 2018, 42, 130.	2.2	623
2	Smartphone and Smartwatch-Based Biometrics Using Activities of Daily Living. IEEE Access, 2019, 7, 133190-133202.	2.6	218
3	A survey of wireless technologies coexistence in WBAN: analysis and open research issues. Wireless Networks, 2014, 20, 2165-2199.	2.0	152
4	A survey on lightweight block ciphers for low-resource devices: Comparative study and open issues. Journal of Network and Computer Applications, 2015, 58, 73-93.	5.8	144
5	Secured Data Collection With Hardware-Based Ciphers for IoT-Based Healthcare. IEEE Internet of Things Journal, 2019, 6, 410-420.	5.5	135
6	Security Vulnerabilities in Bluetooth Technology as Used in IoT. Journal of Sensor and Actuator Networks, 2018, 7, 28.	2.3	103
7	Preserving Balance Between Privacy and Data Integrity in Edge-Assisted Internet of Things. IEEE Internet of Things Journal, 2020, 7, 2679-2689.	5.5	89
8	Penetration testing: Concepts, attack methods, and defense strategies. , 2016, , .		81
9	Lightweight Block Ciphers for IoT: Energy Optimization and Survivability Techniques. IEEE Access, 2018, 6, 35966-35978.	2.6	72
10	Secure Authentication for Remote Patient Monitoring with Wireless Medical Sensor Networks. Sensors, 2016, 16, 424.	2.1	65
11	TrustData: Trustworthy and Secured Data Collection for Event Detection in Industrial Cyber-Physical System. IEEE Transactions on Industrial Informatics, 2020, 16, 3311-3321.	7.2	60
12	QoS-Aware Health Monitoring System Using Cloud-Based WBANs. Journal of Medical Systems, 2014, 38, 121.	2.2	57
13	Security and Privacy Issues with IoT in Healthcare. EAI Endorsed Transactions on Pervasive Health and Technology, 2018, .	0.7	57
14	Hardware Security in IoT Devices with Emphasis on Hardware Trojans. Journal of Sensor and Actuator Networks, 2019, 8, 42.	2.3	56
15	Modeling and optimization of the lightweight HIGHT block cipher design with FPGA implementation. Security and Communication Networks, 2016, 9, 2200-2216.	1.0	42
16	Hardware design and modeling of lightweight block ciphers for secure communications. Future Generation Computer Systems, 2018, 83, 510-521.	4.9	38
17	DeWorm: A Simple Protocol to Detect Wormhole Attacks in Wireless Ad Hoc Networks. , 2009, , .		37
18	An energyâ€efficient and security aware route selection protocol for wireless sensor networks. Security and Communication Networks, 2014, 7, 2015-2038.	1.0	33

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19	Detecting Malicious Packet Dropping in the Presence of Collisions and Channel Errors in Wireless Ad Hoc Networks. , 2009, , .		32
20	Cyber Security in Social Media: Challenges and the Way Forward. IT Professional, 2019, 21, 41-49.	1.4	32
21	Detection and prevention of crypto-ransomware. , 2017, , .		30
22	A Comprehensive Attack Flow Model and Security Analysis for Wi-Fi and WPA3. Electronics (Switzerland), 2018, 7, 284.	1.8	30
23	A biometric-secure e-voting system for election processes. , 2008, , .		28
24	An investigation of Bluetooth security vulnerabilities. , 2017, , .		27
25	Performance and Information Security Evaluation with Firewalls. International Journal of Security and Its Applications, 2013, 7, 355-372.	0.5	27
26	Secure Neighborhood Creation in Wireless Ad Hoc Networks using Hop Count Discrepancies. Mobile Networks and Applications, 2012, 17, 415-430.	2.2	26
27	An Enhanced WLAN Security System With FPGA Implementation for Multimedia Applications. IEEE Systems Journal, 2017, 11, 2536-2545.	2.9	26
28	A Review of Facial Biometrics Security for Smart Devices. Computers, 2018, 7, 37.	2.1	23
29	On limited-range strategic/random jamming attacks in wireless ad hoc networks. , 2009, , .		22
30	A Green Approach for Selfish Misbehavior Detection in 802.11-Based Wireless Networks. Mobile Networks and Applications, 2015, 20, 623-635.	2.2	20
31	Security and Attack Vector Analysis of IoT Devices. Lecture Notes in Computer Science, 2017, , 593-606.	1.0	19
32	FPGA hardware of the LSB steganography method. , 2012, , .		18
33	SECLOUD: Source and Destination Seclusion Using Clouds for wireless ad hoc networks. , 2009, , .		17
34	Wavelet-transform steganography: algorithm and hardware implementation. International Journal of Electronic Security and Digital Forensics, 2013, 5, 241.	0.1	17
35	ANALYSIS AND MODELING OF FPGA IMPLEMENTATIONS OF SPATIAL STEGANOGRAPHY METHODS. Journal of Circuits, Systems and Computers, 2014, 23, 1450018.	1.0	16
36	A cloud-based interference-aware remote health monitoring system for non-hospitalized patients. , 2014, , .		16

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37	Biometric Authentication and Verification for Medical Cyber Physical Systems. Electronics (Switzerland), 2018, 7, 436.	1.8	16
38	Secure and efficient data delivery for fog-assisted wireless body area networks. Peer-to-Peer Networking and Applications, 2019, 12, 1289-1307.	2.6	16
39	AntiConcealer: Reliable Detection of Adversary Concealed Behaviors in EdgeAI-Assisted IoT. IEEE Internet of Things Journal, 2022, 9, 22184-22193.	5.5	16
40	Extrinsic Calibration of Camera and 2D Laser Sensors without Overlap. Sensors, 2017, 17, 2346.	2.1	15
41	Source—destination obfuscation in wireless <i>ad hoc</i> networks. Security and Communication Networks, 2011, 4, 888-901.	1.0	14
42	Event Detection Through Differential Pattern Mining in Cyber-Physical Systems. IEEE Transactions on Big Data, 2020, 6, 652-665.	4.4	14
43	Maintaining the Balance between Privacy and Data Integrity in Internet of Things. , 2017, , .		13
44	Security and privacy issues affecting cloud-based IP camera. , 2017, , .		11
45	A Framework for Preventing the Exploitation of IoT Smart Toys for Reconnaissance and Exfiltration. Lecture Notes in Computer Science, 2017, , 581-592.	1.0	10
46	Security issues with certificate authorities. , 2017, , .		10
47	A comparative study of steganography designs based on multiple FPGA platforms. International Journal of Electronic Security and Digital Forensics, 2016, 8, 164.	0.1	9
48	Optimization and modeling of FPGA implementation of the Katan Cipher. , 2015, , .		8
49	Reverse TCP and Social Engineering Attacks in the Era of Big Data. , 2016, , .		8
50	A Framework for Zero Day Exploit Detection and Containment. , 2017, , .		7
51	Hierarchical steganography using novel optimum quantization technique. Signal, Image and Video Processing, 2013, 7, 1029-1040.	1.7	6
52	ANALYSIS AND EVALUATION OF RANDOM PLACEMENT STRATEGIES IN WIRELESS SENSOR NETWORKS. Journal of Circuits, Systems and Computers, 2014, 23, 1450138.	1.0	5
53	Heartbleed attacks implementation and vulnerability. , 2017, , .		5
54	A Framework to Identify Security and Privacy Issues of Smart Home Devices. , 2018, , .		4

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55	Power-Aware Adaptive Encryption. , 2019, , .		4
56	A secure novel sensor fusion architecture for nuclear applications. , 2008, , .		3
57	SECUND: A protocol for SECUre neighborhooD creation in wireless ad hoc networks. , 2009, , .		3
58	Multimedia traffic over WLANs: QoS support and performance evaluation. , 2014, , .		3
59	Run-Time Monitoring and Validation Using Reverse Function (RMVRF) for Hardware Trojans Detection. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 2689-2704.	3.7	3
60	Public-Key Authentication for Cloud-based WBANs. , 2014, , .		3
61	Next generation wireless-LAN: Security issues and performance analysis. , 2017, , .		2
62	Exploring Problems with Virtualization in Cloud Computing. , 2018, , .		2
63	KeyStroke logs: Are strong passwords enough?. , 2017, , .		1
64	A Survey of Defensive Measures for Digital Persecution in the Global South. Future Internet, 2020, 12, 166.	2.4	1
65	Hardware Trojan detection for lightweight ciphers implemented on field‐programmable gate arrays using the replay algorithm. International Journal of Circuit Theory and Applications, 2021, 49, 3607.	1.3	1
66	A modified optical network for interactive video-on-demand services. , 0, , .		0
67	A graph-coloring-based navigational algorithm for personnel safety in nuclear applications. , 2009, , .		0
68	Security Issues in WSNs with Cooperative Communication. , 2015, , .		0
69	Message from the Program Chairs of HPSC 2016. , 2016, , .		0
70	CAre: Certificate Authority Rescue Engine for Proactive Security. , 2017, , .		0
71	Reevaluating the effectiveness of visual cues for website security. , 2017, , .		0
72	Electromagnetic Warfare and the Cybersecurity Threat. , 2017, , .		0

#	Article	IF	Citations
73	Erratum to â€œAn Energy-Efficient and Security Aware Route Selection Protocol for Wireless Sensor Networksâ€• Security and Communication Networks, 2020, 2020, 1-1.	1.0	0
74	Random variation in coverage of sensor networks. Communications in Computer and Information Science, 2011, , 31-41.	0.4	0
75	Classification of Ischemic Optic Neuropathy Using Custom Image Processing Algorithm-Statistical Based Analysis. International Journal of Digital Content Technology and Its Applications, 2013, 7, 95-106.	0.1	0