

Helge Janicke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,273
citations

21
h-index

45
g-index

123
ext. papers

3,170
ext. citations

2.7
avg, IF

5.76
L-index

#	Paper	IF	Citations
110	Blockchain Technologies for the Internet of Things: Research Issues and Challenges. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2188-2204	10.7	289
109	A Survey of COVID-19 Contact Tracing Apps. <i>IEEE Access</i> , 2020 , 8, 134577-134601	3.5	233
108	SCADA security in the light of Cyber-Warfare. <i>Computers and Security</i> , 2012 , 31, 418-436	4.9	203
107	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. <i>Journal of Information Security and Applications</i> , 2020 , 50, 102419	3.5	194
106	Authentication Protocols for Internet of Things: A Comprehensive Survey. <i>Security and Communication Networks</i> , 2017 , 2017, 1-41	1.9	137
105	Security for 4G and 5G cellular networks: A survey of existing authentication and privacy-preserving schemes. <i>Journal of Network and Computer Applications</i> , 2018 , 101, 55-82	7.9	126
104	Social Internet of Vehicles for Smart Cities. <i>Journal of Sensor and Actuator Networks</i> , 2016 , 5, 3	3.8	75
103	Cyber security of critical infrastructures. <i>ICT Express</i> , 2018 , 4, 42-45	4.9	71
102	A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models 2019 ,		57
101	Human behaviour as an aspect of cybersecurity assurance. <i>Security and Communication Networks</i> , 2016 , 9, 4667-4679	1.9	53
100	Route Optimization of Electric Vehicles Based on Dynamic Wireless Charging. <i>IEEE Access</i> , 2018 , 6, 42551-42565	3.4	52
99	A systematic review of data protection and privacy preservation schemes for smart grid communications. <i>Sustainable Cities and Society</i> , 2018 , 38, 806-835	10.1	51
98	RDTIDS: Rules and Decision Tree-Based Intrusion Detection System for Internet-of-Things Networks. <i>Future Internet</i> , 2020 , 12, 44	3.3	49
97	Cyber warfare: Issues and challenges. <i>Computers and Security</i> , 2015 , 49, 70-94	4.9	46
96	Smart cities and cyber security: Are we there yet?A comparative study on the role of standards, third party risk management and security ownership. <i>Computers and Security</i> , 2019 , 83, 313-331	4.9	41
95	Vulnerability Analysis of Network Scanning on SCADA Systems. <i>Security and Communication Networks</i> , 2018 , 2018, 1-21	1.9	34
94	Semantics-aware detection of targeted attacks: a survey. <i>Journal of Computer Virology and Hacking Techniques</i> , 2017 , 13, 47-85	3	29

93	A novel Intrusion Detection System against spoofing attacks in connected Electric Vehicles. <i>Array</i> , 2020 , 5, 100013	4.7	28
92	HEART-IS: A novel technique for evaluating human error-related information security incidents. <i>Computers and Security</i> , 2019 , 80, 74-89	4.9	28
91	Authentication schemes for smart mobile devices: threat models, countermeasures, and open research issues. <i>Telecommunication Systems</i> , 2020 , 73, 317-348	2.3	28
90	The industrial control system cyber defence triage process. <i>Computers and Security</i> , 2017 , 70, 467-481	4.9	25
89	Runtime-Monitoring for Industrial Control Systems. <i>Electronics (Switzerland)</i> , 2015 , 4, 995-1017	2.6	19
88	A Holistic Cybersecurity Maturity Assessment Framework for Higher Education Institutions in the United Kingdom. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3660	2.6	14
87	Verification and enforcement of access control policies. <i>Formal Methods in System Design</i> , 2013 , 43, 450-492	4.2	13
86	Blockchain and Its Role in the Internet of Things. <i>Springer Proceedings in Business and Economics</i> , 2019 , 1029-1038	0.2	12
85	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis		12
84	. <i>IEEE Access</i> , 2021 , 9, 138509-138542	3.5	12
83	Evaluating information security core human error causes (IS-CHEC) technique in public sector and comparison with the private sector. <i>International Journal of Medical Informatics</i> , 2019 , 127, 109-119	5.3	11
82	Critical theory as an approach to the ethics of information security. <i>Science and Engineering Ethics</i> , 2014 , 20, 675-99	3.1	11
81	Concurrent Enforcement of Usage Control Policies 2008 ,		11
80	A Holistic Review of Cybersecurity and Reliability Perspectives in Smart Airports. <i>IEEE Access</i> , 2020 , 8, 209802-209834	3.5	11
79	Employee Perspective on Information Security Related Human Error in Healthcare: Proactive Use of IS-CHEC in Questionnaire Form. <i>IEEE Access</i> , 2019 , 7, 102087-102101	3.5	10
78	Measuring the Risk of Cyber Attack in Industrial Control Systems		10
77	Attribution of Cyber Attacks on Industrial Control Systems. <i>EAI Endorsed Transactions on Industrial Networks and Intelligent Systems</i> , 2016 , 3, 151158	1.5	10
76	Edge-IIoTset: A New Comprehensive Realistic Cyber Security Dataset of IoT and IIoT Applications for Centralized and Federated Learning. <i>IEEE Access</i> , 2022 , 1-1	3.5	10

75	An introduction to cyber peacekeeping. <i>Journal of Network and Computer Applications</i> , 2018 , 114, 70-87	7.9	9
74	A note on the formalisation of UCON 2007 ,		9
73	Deriving Enforcement Mechanisms from Policies 2007 ,		9
72	CYRAN 2018 , 622-637		9
71	Exploring the role of work identity and work locus of control in information security awareness. <i>Computers and Security</i> , 2019 , 81, 41-48	4.9	9
70	An assessment of the application of IT security mechanisms to industrial control systems. <i>International Journal of Internet Technology and Secured Transactions</i> , 2017 , 7, 144	0.6	8
69	Intrusion Detection System for Platooning Connected Autonomous Vehicles 2019 ,		8
68	PenQuest: a gamified attacker/defender meta model for cyber security assessment and education. <i>Journal of Computer Virology and Hacking Techniques</i> , 2020 , 16, 19-61	3	7
67	MIMO Techniques for Jamming Threat Suppression in Vehicular Networks. <i>Mobile Information Systems</i> , 2016 , 2016, 1-9	1.4	7
66	Two-stage Security Controls Selection. <i>Procedia Computer Science</i> , 2016 , 100, 971-978	1.6	7
65	Developing cyber peacekeeping: Observation, monitoring and reporting. <i>Government Information Quarterly</i> , 2019 , 36, 276-293	7.6	7
64	Cyber Security: From Regulations and Policies to Practice. <i>Springer Proceedings in Business and Economics</i> , 2019 , 763-770	0.2	6
63	Using Gamification to Raise Awareness of Cyber Threats to Critical National Infrastructure		6
62	Real-Time Information Security Incident Management: A Case Study Using the IS-CHEC Technique. <i>IEEE Access</i> , 2019 , 7, 142147-142175	3.5	6
61	Privacy-preserving Schemes for Fog-based IoT Applications: Threat models, Solutions, and Challenges 2018 ,		6
60	Published incidents and their proportions of human error. <i>Information and Computer Security</i> , 2019 , 27, 343-357	1.4	5
59	User interface design for privacy awareness in eHealth technologies 2016 ,		5
58	A security architectural pattern for risk management of industry control systems within critical national infrastructure. <i>International Journal of Critical Infrastructures</i> , 2017 , 13, 113	1	5

57	Formality, Agility, Security, and Evolution in Software Development. <i>Computer</i> , 2014 , 47, 86-89	1.6	5
56	Quantitative Quality Assurance Approach 2009 ,		5
55	Federated TON_IoT Windows Datasets for Evaluating AI-Based Security Applications 2020 ,		5
54	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. <i>Internet Technology Letters</i> , 2020 , 3, e132	1.3	5
53	Can a Network Attack Be Simulated in an Emulated Environment for Network Security Training?. <i>Journal of Sensor and Actuator Networks</i> , 2017 , 6, 16	3.8	4
52	An Industrial Control Systems incident response decision framework 2015 ,		4
51	Decentralized XACML Overlay Network 2010 ,		4
50	Optimizing Software Quality Assurance 2010 ,		4
49	Design of an Anomaly-based Threat Detection & Explication System 2017 ,		4
48	Digital Twins and Cyber Security Evolution or challenge? 2021 ,		4
47	Electronic medical records and risk management in hospitals of Saudi Arabia. <i>Informatics for Health and Social Care</i> , 2019 , 44, 189-203	2.7	4
46	AIDIS: Detecting and classifying anomalous behavior in ubiquitous kernel processes. <i>Computers and Security</i> , 2019 , 84, 120-147	4.9	3
45	The mimetic virus: a vector for cyberterrorism. <i>International Journal of Business Continuity and Risk Management</i> , 2016 , 6, 259	0.2	3
44	Low-Latency Service Data Aggregation Using Policy Obligations 2014 ,		3
43	New framework for policy support for Mobile Grid Services 2011 ,		3
42	Analysis and Run-Time Verification of Dynamic Security Policies. <i>Lecture Notes in Computer Science</i> , 2006 , 92-103	0.9	3
41	Insecure by Design: Using Human Interface Devices to exploit SCADA systems		3
40	Novel Intrusion Detection Mechanism with Low Overhead for SCADA Systems. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 160-178	0.3	3

39	Controlling Data Dissemination. <i>Lecture Notes in Computer Science</i> , 2012 , 303-309	0.9	3
38	New Framework for Dynamic Policy Management in Grid Environments. <i>Communications in Computer and Information Science</i> , 2011 , 297-304	0.3	3
37	Review of Security in VANETs and MANETs. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2014 , 1-27	0.3	3
36	WHISPER: A Location Privacy-Preserving Scheme Using Transmission Range Changing for Internet of Vehicles. <i>Sensors</i> , 2021 , 21,	3.8	3
35	Improved Security Performance for VANET Simulations. <i>IFAC-PapersOnLine</i> , 2016 , 49, 233-238	0.7	3
34	Managing incident response in the industrial internet of things. <i>International Journal of Internet Technology and Secured Transactions</i> , 2018 , 8, 251	0.6	3
33	Vulnerability Assessment of Cyber Security for SCADA Systems. <i>Computer Communications and Networks</i> , 2018 , 59-80	0.5	3
32	Autonomous Agents and Multi Agent Systems (AAMAS) for the Military Issues and Challenges. <i>Lecture Notes in Computer Science</i> , 2006 , 1-13	0.9	3
31	A Deep Learning-based Penetration Testing Framework for Vulnerability Identification in Internet of Things Environments 2021 ,		3
30	SEQUIN: a grammar inference framework for analyzing malicious system behavior. <i>Journal of Computer Virology and Hacking Techniques</i> , 2018 , 14, 291-311	3	2
29	A Practical Approach to Protect IoT Devices against Attacks and Compile Security Incident Datasets. <i>Scientific Programming</i> , 2019 , 2019, 1-11	1.4	2
28	A Robust Eco-Routing Protocol against Malicious Data in Vehicular Networks 2015 ,		2
27	A Property Based Framework for Trust and Reputation in Mobile Computing 2009 ,		2
26	Towards IoT Security Automation and Orchestration 2020 ,		2
25	Taxonomy of Supervised Machine Learning for Intrusion Detection Systems. <i>Springer Proceedings in Business and Economics</i> , 2020 , 619-628	0.2	2
24	Dying of a hundred good symptoms: why good security can still fail - a literature review and analysis. <i>Enterprise Information Systems</i> , 2021 , 15, 448-473	3.5	2
23	Formality, Agility, Security, and Evolution in Software Engineering 2018 , 282-292		2
22	Towards data privacy in heterogeneous cloud environments: An extension to the SANTA policy language 2017 ,		1

21	On data leakage from non-production systems. <i>Information and Computer Security</i> , 2017 , 25, 454-474	1.4	1
20	SMP-based service matching 2014 ,		1
19	Efficient Data Processing for Large-Scale Cloud Services 2012 ,		1
18	CYRAN. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 226-241	0.3	1
17	Novel Intrusion Detection Mechanism with Low Overhead for SCADA Systems 2020 , 299-318		1
16	The Cost Perspective of Password Security. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2020 , 319-330	0.3	1
15	Class Balanced Similarity-Based Instance Transfer Learning for Botnet Family Classification. <i>Lecture Notes in Computer Science</i> , 2018 , 99-113	0.9	1
14	Ensuring Data Confidentiality and Privacy in Mobile Ad Hoc Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 490-499	0.2	1
13	A Novel Hybrid Cyber Range for Security Exercises on Cyber-Physical Systems. <i>International Journal of Smart Security Technologies</i> , 2021 , 8, 16-34	0.3	1
12	The Agile Incident Response for Industrial Control Systems (AIR4ICS) framework. <i>Computers and Security</i> , 2021 , 109, 102398	4.9	1
11	Cyber Warfare. <i>Advances in Digital Crime, Forensics, and Cyber Terrorism</i> , 2015 , 13-36	0.2	0
10	Effect of Network Architecture Changes on OCSVM Based Intrusion Detection System. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 90-100	0.2	0
9	SmartValidator: A framework for automatic identification and classification of cyber threat data. <i>Journal of Network and Computer Applications</i> , 2022 , 202, 103370	7.9	0
8	Developing Cyber Buffer Zones 2020 , 287-303		
7	A Novel Method for Calculating Customer Reviews Ratings. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2018 , 460-478	0.3	
6	SCIPS 2018 , 1168-1183		
5	OSNs as Cyberterrorist Weapons against the General Public. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2017 , 179-197	0.3	
4	Security Visualization: Detecting Denial of Service. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 39-49	0.2	

- 3 Protecting Civilians from Cyber Warfare with Cyber Buffer Zones. *International Journal of Smart Security Technologies*, **2019**, 6, 31-48 0.3
- 2 Redefining the Arsenal of democracy *Nature Human Behaviour*, 12.8
- 1 Development and application of the Information Security Core Human Error Causes (IS-CHEC) technique **2022**, 267-295