

# Helge Janicke

## List of Publications by Year in Descending Order

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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	Edge-IIoTset: A New Comprehensive Realistic Cyber Security Dataset of IoT and IIoT Applications for Centralized and Federated Learning. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	10
109	SmartValidator: A framework for automatic identification and classification of cyber threat data. <i>Journal of Network and Computer Applications</i> , <b>2022</b> , 202, 103370	7.9	0
108	Development and application of the Information Security Core Human Error Causes (IS-CHEC) technique <b>2022</b> , 267-295		
107	. <i>IEEE Access</i> , <b>2021</b> , 9, 138509-138542	3.5	12
106	Digital Twins and Cyber Security Evolution or challenge? <b>2021</b> ,		4
105	WHISPER: A Location Privacy-Preserving Scheme Using Transmission Range Changing for Internet of Vehicles. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
104	Dying of a hundred good symptoms: why good security can still fail - a literature review and analysis. <i>Enterprise Information Systems</i> , <b>2021</b> , 15, 448-473	3.5	2
103	A Novel Hybrid Cyber Range for Security Exercises on Cyber-Physical Systems. <i>International Journal of Smart Security Technologies</i> , <b>2021</b> , 8, 16-34	0.3	1
102	The Agile Incident Response for Industrial Control Systems (AIR4ICS) framework. <i>Computers and Security</i> , <b>2021</b> , 109, 102398	4.9	1
101	A Deep Learning-based Penetration Testing Framework for Vulnerability Identification in Internet of Things Environments <b>2021</b> ,		3
100	A Holistic Cybersecurity Maturity Assessment Framework for Higher Education Institutions in the United Kingdom. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3660	2.6	14
99	RDTIDS: Rules and Decision Tree-Based Intrusion Detection System for Internet-of-Things Networks. <i>Future Internet</i> , <b>2020</b> , 12, 44	3.3	49
98	Developing Cyber Buffer Zones <b>2020</b> , 287-303		
97	Towards IoT Security Automation and Orchestration <b>2020</b> ,		2
96	Novel Intrusion Detection Mechanism with Low Overhead for SCADA Systems <b>2020</b> , 299-318		1
95	Federated TON_IoT Windows Datasets for Evaluating AI-Based Security Applications <b>2020</b> ,		5
94	The Cost Perspective of Password Security. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2020</b> , 319-330	0.3	1

93	Taxonomy of Supervised Machine Learning for Intrusion Detection Systems. <i>Springer Proceedings in Business and Economics</i> , <b>2020</b> , 619-628	0.2	2
92	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. <i>Internet Technology Letters</i> , <b>2020</b> , 3, e132	1.3	5
91	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 50, 102419	3.5	194
90	A novel Intrusion Detection System against spoofing attacks in connected Electric Vehicles. <i>Array</i> , <b>2020</b> , 5, 100013	4.7	28
89	PenQuest: a gamified attacker/defender meta model for cyber security assessment and education. <i>Journal of Computer Virology and Hacking Techniques</i> , <b>2020</b> , 16, 19-61	3	7
88	A Survey of COVID-19 Contact Tracing Apps. <i>IEEE Access</i> , <b>2020</b> , 8, 134577-134601	3.5	233
87	A Holistic Review of Cybersecurity and Reliability Perspectives in Smart Airports. <i>IEEE Access</i> , <b>2020</b> , 8, 209802-209834	3.5	11
86	Authentication schemes for smart mobile devices: threat models, countermeasures, and open research issues. <i>Telecommunication Systems</i> , <b>2020</b> , 73, 317-348	2.3	28
85	Published incidents and their proportions of human error. <i>Information and Computer Security</i> , <b>2019</b> , 27, 343-357	1.4	5
84	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> , <b>2019</b> , 127, 109-119	5.3	11
83	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> , <b>2019</b> , 83, 313-331	4.9	41
82	AIDIS: Detecting and classifying anomalous behavior in ubiquitous kernel processes. <i>Computers and Security</i> , <b>2019</b> , 84, 120-147	4.9	3
81	A Practical Approach to Protect IoT Devices against Attacks and Compile Security Incident Datasets. <i>Scientific Programming</i> , <b>2019</b> , 2019, 1-11	1.4	2
80	A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models <b>2019</b> ,		57
79	Employee Perspective on Information Security Related Human Error in Healthcare: Proactive Use of IS-CHEC in Questionnaire Form. <i>IEEE Access</i> , <b>2019</b> , 7, 102087-102101	3.5	10
78	Blockchain and Its Role in the Internet of Things. <i>Springer Proceedings in Business and Economics</i> , <b>2019</b> , 1029-1038	0.2	12
77	Cyber Security: From Regulations and Policies to Practice. <i>Springer Proceedings in Business and Economics</i> , <b>2019</b> , 763-770	0.2	6
76	Protecting Civilians from Cyber Warfare with Cyber Buffer Zones. <i>International Journal of Smart Security Technologies</i> , <b>2019</b> , 6, 31-48	0.3	

75	Intrusion Detection System for Platooning Connected Autonomous Vehicles <b>2019</b> ,		8
74	Real-Time Information Security Incident Management: A Case Study Using the IS-CHEC Technique. <i>IEEE Access</i> , <b>2019</b> , 7, 142147-142175	3.5	6
73	Developing cyber peacekeeping: Observation, monitoring and reporting. <i>Government Information Quarterly</i> , <b>2019</b> , 36, 276-293	7.6	7
72	Blockchain Technologies for the Internet of Things: Research Issues and Challenges. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 2188-2204	10.7	289
71	Exploring the role of work identity and work locus of control in information security awareness. <i>Computers and Security</i> , <b>2019</b> , 81, 41-48	4.9	9
70	HEART-IS: A novel technique for evaluating human error-related information security incidents. <i>Computers and Security</i> , <b>2019</b> , 80, 74-89	4.9	28
69	Electronic medical records and risk management in hospitals of Saudi Arabia. <i>Informatics for Health and Social Care</i> , <b>2019</b> , 44, 189-203	2.7	4
68	Cyber security of critical infrastructures. <i>ICT Express</i> , <b>2018</b> , 4, 42-45	4.9	71
67	A systematic review of data protection and privacy preservation schemes for smart grid communications. <i>Sustainable Cities and Society</i> , <b>2018</b> , 38, 806-835	10.1	51
66	An introduction to cyber peacekeeping. <i>Journal of Network and Computer Applications</i> , <b>2018</b> , 114, 70-87	7.9	9
65	SEQUIN: a grammar inference framework for analyzing malicious system behavior. <i>Journal of Computer Virology and Hacking Techniques</i> , <b>2018</b> , 14, 291-311	3	2
64	CYRAN <b>2018</b> , 622-637		9
63	A Novel Method for Calculating Customer Reviews Ratings. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2018</b> , 460-478	0.3	
62	SCIPS <b>2018</b> , 1168-1183		
61	Class Balanced Similarity-Based Instance Transfer Learning for Botnet Family Classification. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 99-113	0.9	1
60	Security for 4G and 5G cellular networks: A survey of existing authentication and privacy-preserving schemes. <i>Journal of Network and Computer Applications</i> , <b>2018</b> , 101, 55-82	7.9	126
59	Managing incident response in the industrial internet of things. <i>International Journal of Internet Technology and Secured Transactions</i> , <b>2018</b> , 8, 251	0.6	3
58	Privacy-preserving Schemes for Fog-based IoT Applications: Threat models, Solutions, and Challenges <b>2018</b> ,		6

57	Formality, Agility, Security, and Evolution in Software Engineering <b>2018</b> , 282-292		2
56	Vulnerability Assessment of Cyber Security for SCADA Systems. <i>Computer Communications and Networks</i> , <b>2018</b> , 59-80	0.5	3
55	Vulnerability Analysis of Network Scanning on SCADA Systems. <i>Security and Communication Networks</i> , <b>2018</b> , 2018, 1-21	1.9	34
54	Route Optimization of Electric Vehicles Based on Dynamic Wireless Charging. <i>IEEE Access</i> , <b>2018</b> , 6, 42551-42565	5.3	52
53	Semantics-aware detection of targeted attacks: a survey. <i>Journal of Computer Virology and Hacking Techniques</i> , <b>2017</b> , 13, 47-85	3	29
52	Towards data privacy in heterogeneous cloud environments: An extension to the SANTA policy language <b>2017</b> ,		1
51	Authentication Protocols for Internet of Things: A Comprehensive Survey. <i>Security and Communication Networks</i> , <b>2017</b> , 2017, 1-41	1.9	137
50	On data leakage from non-production systems. <i>Information and Computer Security</i> , <b>2017</b> , 25, 454-474	1.4	1
49	The industrial control system cyber defence triage process. <i>Computers and Security</i> , <b>2017</b> , 70, 467-481	4.9	25
48	A security architectural pattern for risk management of industry control systems within critical national infrastructure. <i>International Journal of Critical Infrastructures</i> , <b>2017</b> , 13, 113	1	5
47	Can a Network Attack Be Simulated in an Emulated Environment for Network Security Training?. <i>Journal of Sensor and Actuator Networks</i> , <b>2017</b> , 6, 16	3.8	4
46	An assessment of the application of IT security mechanisms to industrial control systems. <i>International Journal of Internet Technology and Secured Transactions</i> , <b>2017</b> , 7, 144	0.6	8
45	Design of an Anomaly-based Threat Detection & Explication System <b>2017</b> ,		4
44	OSNs as Cyberterrorist Weapons against the General Public. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2017</b> , 179-197	0.3	
43	Security Visualization: Detecting Denial of Service. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 39-49	0.2	
42	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> , <b>2017</b> , 90-100	0.2	0
41	The mimetic virus: a vector for cyberterrorism. <i>International Journal of Business Continuity and Risk Management</i> , <b>2016</b> , 6, 259	0.2	3
40	Human behaviour as an aspect of cybersecurity assurance. <i>Security and Communication Networks</i> , <b>2016</b> , 9, 4667-4679	1.9	53

39	User interface design for privacy awareness in eHealth technologies <b>2016</b> ,		5
38	Attribution of Cyber Attacks on Industrial Control Systems. <i>EAI Endorsed Transactions on Industrial Networks and Intelligent Systems</i> , <b>2016</b> , 3, 151158	1.5	10
37	MIMO Techniques for Jamming Threat Suppression in Vehicular Networks. <i>Mobile Information Systems</i> , <b>2016</b> , 2016, 1-9	1.4	7
36	Social Internet of Vehicles for Smart Cities. <i>Journal of Sensor and Actuator Networks</i> , <b>2016</b> , 5, 3	3.8	75
35	Improved Security Performance for VANET Simulations. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 233-238	0.7	3
34	Two-stage Security Controls Selection. <i>Procedia Computer Science</i> , <b>2016</b> , 100, 971-978	1.6	7
33	Cyber warfare: Issues and challenges. <i>Computers and Security</i> , <b>2015</b> , 49, 70-94	4.9	46
32	Runtime-Monitoring for Industrial Control Systems. <i>Electronics (Switzerland)</i> , <b>2015</b> , 4, 995-1017	2.6	19
31	A Robust Eco-Routing Protocol against Malicious Data in Vehicular Networks <b>2015</b> ,		2
30	An Industrial Control Systems incident response decision framework <b>2015</b> ,		4
29	Cyber Warfare. <i>Advances in Digital Crime, Forensics, and Cyber Terrorism</i> , <b>2015</b> , 13-36	0.2	0
28	SMP-based service matching <b>2014</b> ,		1
27	Formality, Agility, Security, and Evolution in Software Development. <i>Computer</i> , <b>2014</b> , 47, 86-89	1.6	5
26	Low-Latency Service Data Aggregation Using Policy Obligations <b>2014</b> ,		3
25	Critical theory as an approach to the ethics of information security. <i>Science and Engineering Ethics</i> , <b>2014</b> , 20, 675-99	3.1	11
24	Review of Security in VANETs and MANETs. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2014</b> , 1-27	0.3	3
23	Verification and enforcement of access control policies. <i>Formal Methods in System Design</i> , <b>2013</b> , 43, 450-492	4.2	13
22	SCADA security in the light of Cyber-Warfare. <i>Computers and Security</i> , <b>2012</b> , 31, 418-436	4.9	203

21	Efficient Data Processing for Large-Scale Cloud Services <b>2012</b> ,		1
20	Controlling Data Dissemination. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 303-309	0.9	3
19	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> , <b>2012</b> , 490-499	0.2	1
18	New framework for policy support for Mobile Grid Services <b>2011</b> ,		3
17	New Framework for Dynamic Policy Management in Grid Environments. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 297-304	0.3	3
16	Decentralized XACML Overlay Network <b>2010</b> ,		4
15	Optimizing Software Quality Assurance <b>2010</b> ,		4
14	Quantitative Quality Assurance Approach <b>2009</b> ,		5
13	A Property Based Framework for Trust and Reputation in Mobile Computing <b>2009</b> ,		2
12	Concurrent Enforcement of Usage Control Policies <b>2008</b> ,		11
11	A note on the formalisation of UCON <b>2007</b> ,		9
10	Deriving Enforcement Mechanisms from Policies <b>2007</b> ,		9
9	Analysis and Run-Time Verification of Dynamic Security Policies. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 92-103	0.9	3
8	Autonomous Agents and Multi-Agent Systems (AAMAS) for the Military Issues and Challenges. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1-13	0.9	3
7	Insecure by Design: Using Human Interface Devices to exploit SCADA systems		3
6	Using Gamification to Raise Awareness of Cyber Threats to Critical National Infrastructure		6
5	Measuring the Risk of Cyber Attack in Industrial Control Systems		10
4	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis		12

3	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
2	CYRAN. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> ,226-241	0.3	1
1	Redefining the Arsenal of democracy□ <i>Nature Human Behaviour</i> ,	12.8	