

Mohamed Amine Ferrag

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.

75
papers

2,269
citations

22
h-index

47
g-index

93
ext. papers

3,327
ext. citations

3.1
avg, IF

6.17
L-index

#	Paper	IF	Citations
75	Security and Privacy in Fog Computing: Challenges. <i>IEEE Access</i> , 2017 , 5, 19293-19304	3.5	302
74	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
73	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
72	Authentication Protocols for Internet of Things: A Comprehensive Survey. <i>Security and Communication Networks</i> , 2017 , 2017, 1-41	1.9	137
71	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
70	. <i>IEEE Access</i> , 2020 , 8, 32031-32053	3.5	107
69	DeepCoin: A Novel Deep Learning and Blockchain-Based Energy Exchange Framework for Smart Grids. <i>IEEE Transactions on Engineering Management</i> , 2020 , 67, 1285-1297	2.6	93
68	Internet of Things for the Future of Smart Agriculture: A Comprehensive Survey of Emerging Technologies. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 718-752	7	89
67	. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 3015-3045	37.1	85
66	Cyber security of critical infrastructures. <i>ICT Express</i> , 2018 , 4, 42-45	4.9	71
65	Blockchain and Random Subspace Learning-Based IDS for SDN-Enabled Industrial IoT Security. <i>Sensors</i> , 2019 , 19,	3.8	65
64	A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 273-302	7	61
63	A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models 2019 ,		57
62	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
61	RTIDS: Rules and Decision Tree-Based Intrusion Detection System for Internet-of-Things Networks. <i>Future Internet</i> , 2020 , 12, 44	3.3	49
60	DeliveryCoin: An IDS and Blockchain-Based Delivery Framework for Drone-Delivered Services. <i>Computers</i> , 2019 , 8, 58	1.9	36
59	Authentication and Authorization for Mobile IoT Devices Using Biofeatures: Recent Advances and Future Trends. <i>Security and Communication Networks</i> , 2019 , 2019, 1-20	1.9	32

58	The Performance Evaluation of Blockchain-based Security and Privacy Systems for the Internet of Things: A Tutorial. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	31
57	Authentication schemes for smart mobile devices: threat models, countermeasures, and open research issues. <i>Telecommunication Systems</i> , 2020 , 73, 317-348	2.3	28
56	Deep Learning-Based Intrusion Detection for Distributed Denial of Service Attack in Agriculture 4.0. <i>Electronics (Switzerland)</i> , 2021 , 10, 1257	2.6	26
55	ESSPR: an efficient secure routing scheme based on searchable encryption with vehicle proxy re-encryption for vehicular peer-to-peer social network. <i>Telecommunication Systems</i> , 2017 , 66, 481-503	2.3	22
54	Cyber security for fog-based smart grid SCADA systems: Solutions and challenges. <i>Journal of Information Security and Applications</i> , 2020 , 52, 102500	3.5	22
53	An intrusion detection system based on combining probability predictions of a tree of classifiers. <i>International Journal of Communication Systems</i> , 2018 , 31, e3547	1.7	21
52	. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 1477-1499	7	19
51	Internet of Cloud: Security and Privacy Issues. <i>Studies in Big Data</i> , 2018 , 271-301	0.9	15
50	PetroBlock: A Blockchain-Based Payment Mechanism for Fueling Smart Vehicles. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3055	2.6	15
49	EPEC: an efficient privacy-preserving energy consumption scheme for smart grid communications. <i>Telecommunication Systems</i> , 2017 , 66, 671-688	2.3	14
48	EPSA: an efficient and privacy-preserving scheme against wormhole attack on reactive routing for mobile ad hoc social networks. <i>International Journal of Security and Networks</i> , 2016 , 11, 107	0.5	14
47	Blockchain and Its Role in the Internet of Things. <i>Springer Proceedings in Business and Economics</i> , 2019 , 1029-1038	0.2	12
46	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis		12
45	. <i>IEEE Access</i> , 2021 , 9, 138509-138542	3.5	12
44	Security Solutions and Applied Cryptography in Smart Grid Communications. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2017 ,	0.3	10
43	EASBF: An efficient authentication scheme over blockchain for fog computing-enabled internet of vehicles. <i>Journal of Information Security and Applications</i> , 2021 , 59, 102802	3.5	10
42	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
41	Threats, Countermeasures and Attribution of Cyber Attacks on Critical Infrastructures. <i>EAI Endorsed Transactions on Security and Safety</i> , 2018 , 5, 155856	1.3	9

40	Use Of Smartphones for Ensuring Vulnerable Road User Safety through Path Prediction and Early Warning: An In-Depth Review of Capabilities, Limitations and Their Applications in Cooperative Intelligent Transport Systems. <i>Sensors</i> , 2020 , 20,	3.8	8
39	Security and Privacy Issues and Solutions for Fog 2020 , 353-374		8
38	A Novel Intrusion Detection Mechanism for SCADA systems which Automatically Adapts to Network Topology Changes. <i>EAI Endorsed Transactions on Industrial Networks and Intelligent Systems</i> , 2017 , 4, 152155	1.5	8
37	Cyber Ranges and TestBeds for Education, Training, and Research. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1809	2.6	8
36	An efficient indexing for Internet of Things massive data based on cloud-fog computing. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020 , 31, e3868	1.9	6
35	Cyber Security: From Regulations and Policies to Practice. <i>Springer Proceedings in Business and Economics</i> , 2019 , 763-770	0.2	6
34	Pseudonym change-based privacy-preserving schemes in vehicular ad-hoc networks: A survey. <i>Journal of Information Security and Applications</i> , 2020 , 55, 102618	3.5	6
33	Privacy-preserving Schemes for Fog-based IoT Applications: Threat models, Solutions, and Challenges 2018 ,		6
32	SDPP: an intelligent secure detection scheme with strong privacy-preserving for mobile peer-to-peer social network. <i>International Journal of Information and Computer Security</i> , 2014 , 6, 241	0.4	5
31	ECPDR. <i>International Journal of Embedded and Real-Time Communication Systems</i> , 2013 , 4, 43-71	0.6	5
30	Physical Security and Safety of IoT Equipment: A Survey of Recent Advances and Opportunities. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	5
29	Cyber Security Intrusion Detection for Agriculture 4.0: Machine Learning-Based Solutions, Datasets, and Future Directions. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 9, 407-436	7	5
28	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
27	Digital Twins and Cyber Security [Solution or challenge? 2021 ,		4
26	A Detailed Analysis of Using Supervised Machine Learning for Intrusion Detection. <i>Springer Proceedings in Business and Economics</i> , 2020 , 629-639	0.2	3
25	A Robust Security Framework based on Blockchain and SDN for Fog Computing enabled Agricultural Internet of Things 2020 ,		3
24	EPSA: an efficient and privacy-preserving scheme against wormhole attack on reactive routing for mobile ad hoc social networks. <i>International Journal of Security and Networks</i> , 2016 , 11, 107	0.5	3
23	Security and Privacy in Mobile Ad hoc Social Networks. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2014 , 222-243	0.3	3

22	WHISPER: A Location Privacy-Preserving Scheme Using Transmission Range Changing for Internet of Vehicles. <i>Sensors</i> , 2021 , 21,	3.8	3
21	Vulnerability Assessment of Cyber Security for SCADA Systems. <i>Computer Communications and Networks</i> , 2018 , 59-80	0.5	3
20	The Security Aspects of Automotive Over-the-Air Updates. <i>International Journal of Cyber Warfare and Terrorism</i> , 2020 , 10, 64-81	0.3	2
19	Security and privacy challenges in the field of iOS device forensics. <i>AIMS Electronics and Electrical Engineering</i> , 2020 , 4, 249-258	1	2
18	Taxonomy of Supervised Machine Learning for Intrusion Detection Systems. <i>Springer Proceedings in Business and Economics</i> , 2020 , 619-628	0.2	2
17	Intrusion Detection in Critical Infrastructures: A Literature Review. <i>Smart Cities</i> , 2021 , 4, 1146-1157	3.3	2
16	FELIDS: Federated learning-based intrusion detection system for agricultural Internet of Things. <i>Journal of Parallel and Distributed Computing</i> , 2022 , 165, 17-31	4.4	2
15	2020 ,		1
14	Securing the Future Autonomous Vehicle: A Cyber-Physical Systems Approach 2015 , 216-239		1
13	Achieving Secure and Privacy-Preserving in Mobile Social Networks. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019 , 94-126	0.3	1
12	BLOSTER: Blockchain-based System for Detection of Fraudulent Rules in Software-Defined Networks		1
11	The Cost Perspective of Password Security. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2020 , 319-330	0.3	1
10	Between Location protection and Overthrowing: A Contrariness Framework Study for Smart Vehicles 2021 ,		1
9	Taxonomy of Biometric-based Authentication Schemes for Mobile Computing Devices 2018 ,		1
8	A Survey on Big IoT Data Indexing: Potential Solutions, Recent Advancements, and Open Issues. <i>Future Internet</i> , 2022 , 14, 19	3.3	0
7	Cyber Threats in the Healthcare Sector and Countermeasures. <i>Advances in Business Strategy and Competitive Advantage Book Series</i> , 2020 , 109-124	0.3	
6	A Secure Routing Scheme Against Malicious Nodes in Ad Hoc Networks. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2018 , 284-307	0.3	
5	Blockchain Technology: Security and Privacy Issues. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 95-107	0.5	

4 Achieving Secure and Privacy-Preserving in Mobile Social Networks **2021**, 380-412

3 Digital Transformation and Cybersecurity of Critical Infrastructures. *Applied Sciences (Switzerland)*, **2021**, 11, 8357 2.6

2 A Mamdani Type Fuzzy Inference System to Calculate Employee Susceptibility to Phishing Attacks. *Applied Sciences (Switzerland)*, **2021**, 11, 9083 2.6

1 SAMA: Security-Aware Monitoring Approach for Location Abusing and UAV GPS-Spoofing Attacks on Internet of Vehicles. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 343-360 0.2