Maria Cristina Alcaraz Tello

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Survey of IoT-Enabled Cyberattacks: Assessing Attack Paths to Critical Infrastructures and Services. IEEE Communications Surveys and Tutorials, 2018, 20, 3453-3495.	39.4	261
2	Key management systems for sensor networks in the context of the Internet of Things. Computers and Electrical Engineering, 2011, 37, 147-159.	4.8	243
3	Critical infrastructure protection: Requirements and challenges for the 21st century. International Journal of Critical Infrastructure Protection, 2015, 8, 53-66.	4.6	183
4	A Security Analysis for Wireless Sensor Mesh Networks in Highly Critical Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 419-428.	2.9	94
5	OCPP Protocol: Security Threats and Challenges. IEEE Transactions on Smart Grid, 2017, 8, 2452-2459.	9.0	89
6	A Survey of Cryptographic Primitives and Implementations for Hardware-Constrained Sensor Network Nodes. Mobile Networks and Applications, 2007, 12, 231-244.	3.3	85
7	Towards Privacy Protection in Smart Grid. Wireless Personal Communications, 2013, 73, 23-50.	2.7	79
8	Current cyber-defense trends in industrial control systems. Computers and Security, 2019, 87, 101561.	6.0	69
9	Analysis of Security Threats, Requirements, Technologies and Standards in Wireless Sensor Networks. Lecture Notes in Computer Science, 2009, , 289-338.	1.3	68
10	Digital Twin: A Comprehensive Survey of Security Threats. IEEE Communications Surveys and Tutorials, 2022, 24, 1475-1503.	39.4	63
11	Wide-Area Situational Awareness for Critical Infrastructure Protection. Computer, 2013, 46, 30-37.	1.1	50
12	Security of industrial sensor network-based remote substations in the context of the Internet of Things. Ad Hoc Networks, 2013, 11, 1091-1104.	5.5	48
13	Critical Control System Protection in the 21st Century. Computer, 2013, 46, 74-83.	1.1	47
14	Cyber Stealth Attacks in Critical Information Infrastructures. IEEE Systems Journal, 2018, 12, 1778-1792.	4.6	44
15	Cloud-Assisted Dynamic Resilience for Cyber-Physical Control Systems. IEEE Wireless Communications, 2018, 25, 76-82.	9.0	42
16	Selecting key management schemes for WSN applications. Computers and Security, 2012, 31, 956-966.	6.0	36
17	A Resilient Architecture for the Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 3745-3753.	11.3	36
18	Analysis of requirements for critical control systems. International Journal of Critical Infrastructure Protection, 2012, 5, 137-145.	4.6	35

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19	Policy enforcement system for secure interoperable control in distributed Smart Grid systems. Journal of Network and Computer Applications, 2016, 59, 301-314.	9.1	35
20	Digital Twins for Intelligent Authorization in the B5C-Enabled Smart Grid. IEEE Wireless Communications, 2021, 28, 48-55.	9.0	35
21	Smart Grid Privacy: Issues and Solutions. , 2012, , .		34
22	Analysis of Intrusion Detection Systems in Industrial Ecosystems. , 2017, , .		33
23	The role of Wireless Sensor Networks in the area of Critical Information InfrastructureÂProtection. Information Security Technical Report, 2007, 12, 24-31.	1.3	32
24	Recommender system for privacy-preserving solutions in smart metering. Pervasive and Mobile Computing, 2017, 41, 205-218.	3.3	31
25	WASAM: A dynamic wide-area situational awareness model for critical domains in Smart Grids. Future Generation Computer Systems, 2014, 30, 146-154.	7.5	30
26	Blockchain-assisted access for federated Smart Grid domains: Coupling and features. Journal of Parallel and Distributed Computing, 2020, 144, 124-135.	4.1	29
27	Security Aspects of SCADA and DCS Environments. Lecture Notes in Computer Science, 2012, , 120-149.	1.3	27
28	Smart control of operational threats in control substations. Computers and Security, 2013, 38, 14-27.	6.0	27
29	Managing Incidents in Smart Grids à la Cloud. , 2011, , .		24
30	An Early Warning System Based on Reputation for Energy Control Systems. IEEE Transactions on Smart Grid, 2011, 2, 827-834.	9.0	24
31	Context-Awareness Using Anomaly-Based Detectors for Smart Grid Domains. Lecture Notes in Computer Science, 2015, , 17-34.	1.3	24
32	Addressing Security in OCPP: Protection Against Man-in-the-Middle Attacks. , 2018, , .		24
33	Covert Channels-Based Stealth Attacks in Industry 4.0. IEEE Systems Journal, 2019, 13, 3980-3988.	4.6	24
34	Secure SCADA framework for the protection of energy control systems. Concurrency Computation Practice and Experience, 2011, 23, 1431-1442.	2.2	20
35	Resilient interconnection in cyber-physical control systems. Computers and Security, 2017, 71, 2-14.	6.0	19
36	Recovery of Structural Controllability for Control Systems. Lecture Notes in Computer Science, 2014, , 47-63.	1.3	18

MARIA CRISTINA ALCARAZ TELLO

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37	Preventing Advanced Persistent Threats in Complex Control Networks. Lecture Notes in Computer Science, 2017, , 402-418.	1.3	15
38	Applicability of Public Key Infrastructures in Wireless Sensor Networks. Lecture Notes in Computer Science, 2007, , 313-320.	1.3	15
39	Diagnosis mechanism for accurate monitoring in critical infrastructure protection. Computer Standards and Interfaces, 2014, 36, 501-512.	5.4	14
40	Structural Controllability of Networks for Non-interactive Adversarial Vertex Removal. Lecture Notes in Computer Science, 2013, , 120-132.	1.3	14
41	Tracking APTs in industrial ecosystems: AÂproof of concept. Journal of Computer Security, 2019, 27, 521-546.	0.8	12
42	Applying Key Infrastructures for Sensor Networks in CIP/CIIP Scenarios. Lecture Notes in Computer Science, 2006, , 166-178.	1.3	11
43	Tracking Advanced Persistent Threats in Critical Infrastructures Through Opinion Dynamics. Lecture Notes in Computer Science, 2018, , 555-574.	1.3	10
44	Stakeholder perspectives and requirements on cybersecurity in Europe. Journal of Information Security and Applications, 2021, 61, 102916.	2.5	10
45	Towards Automatic Critical Infrastructure Protection through Machine Learning. Lecture Notes in Computer Science, 2013, , 197-203.	1.3	10
46	Classifying resilience approaches for protecting smart grids against cyber threats. International Journal of Information Security, 2022, 21, 1189-1210.	3.4	10
47	A Cyber-Physical Systems-Based Checkpoint Model for Structural Controllability. IEEE Systems Journal, 2018, 12, 3543-3554.	4.6	8
48	Secure Interconnection of IT-OT Networks in Industry 4.0. Advanced Sciences and Technologies for Security Applications, 2019, , 201-217.	0.5	8
49	Secure Interoperability in Cyber-Physical Systems. Advances in Information Security, Privacy, and Ethics Book Series, 0, , 137-158.	0.5	8
50	A three-stage analysis of IDS for critical infrastructures. Computers and Security, 2015, 55, 235-250.	6.0	7
51	SenseKey Simplifying the Selection of Key Management Schemes for Sensor Networks. , 2011, , .		6
52	Cyber-Physical Systems for Wide-Area Situational Awareness. , 2017, , 305-317.		6
53	Enhancing Security and Dependability of Industrial Networks with Opinion Dynamics. Lecture Notes in Computer Science, 2019, , 263-280.	1.3	6
54	Multi-round Attacks on Structural Controllability Properties for Non-complete Random Graphs. Lecture Notes in Computer Science, 2015, , 140-151.	1.3	6

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55	Safeguarding Structural Controllability in Cyber-Physical Control Systems. Lecture Notes in Computer Science, 2016, , 471-489.	1.3	6
56	Guest Editorial: Special Section on Security and Privacy in Industry 4.0. IEEE Transactions on Industrial Informatics, 2020, 16, 6530-6531.	11.3	5
57	Game Theory-Based Approach for Defense Against APTs. Lecture Notes in Computer Science, 2020, , 297-320.	1.3	5
58	Risk Assessment for IoT-Enabled Cyber-Physical Systems. Learning and Analytics in Intelligent Systems, 2021, , 157-173.	0.6	4
59	Secure Interoperability in Cyber-Physical Systems. , 2020, , 521-542.		4
60	Early Warning System for Cascading Effect Control in Energy Control Systems. Lecture Notes in Computer Science, 2011, , 55-66.	1.3	3
61	On the Protection and Technologies of Critical Information Infrastructures. Lecture Notes in Computer Science, 2007, , 160-182.	1.3	3
62	Dynamic Restoration in Interconnected RBAC-based Cyber-physical Control Systems. , 2016, , .		3
63	Distributed Detection of APTs: Consensus vs. Clustering. Lecture Notes in Computer Science, 2020, , 174-192.	1.3	3
64	Selecting Privacy Solutions to Prioritise Control in Smart Metering Systems. Lecture Notes in Computer Science, 2017, , 176-188.	1.3	2
65	Resilient industrial control systems based on multiple redundancy. International Journal of Critical Infrastructures, 2017, 13, 278.	0.2	2
66	Addressing Situational Awareness in Critical Domains of a Smart Grid. Lecture Notes in Computer Science, 2012, , 58-71.	1.3	2
67	PDR: A Prevention, Detection and Response Mechanism for Anomalies in Energy Control Systems. Lecture Notes in Computer Science, 2013, , 22-33.	1.3	2
68	Awareness and reaction strategies for critical infrastructure protection. Computers and Electrical Engineering, 2015, 47, 299-317.	4.8	1
69	The Role of Software-Defined Networks for Practical Learning in the Engineering Areas. Proceedings (mdpi), 2018, 2, 1352.	0.2	1
70	Guest Editors' Introduction to the Special Issue on "Modern trends in applied security: Architectures, implementations and applications― Computers and Electrical Engineering, 2011, 37, 127-128.	4.8	0
71	Guest Editorial Special Issue on Secure Embedded IoT Devices for Resilient Critical Infrastructures. IEEE Internet of Things Journal, 2019, 6, 7988-7991.	8.7	0
72	Situational Awareness for CPS. , 2021, , 1-3.		0

5

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73	Resilient industrial control systems based on multiple redundancy. International Journal of Critical Infrastructures, 2017, 13, 278.	0.2	0
74	THE ROLE OF TEST-BEDS IN TEACHING AND LEARNING PROCESSES IN COMPUTER SCIENCE. , 2018, , .		0
75	SealedGRID: A Secure Interconnection of Technologies for Smart Grid Applications. Lecture Notes in Computer Science, 2020, , 169-175.	1.3	0
76	REDUCING INEQUALITIES IN MASTER DEGREE STUDENTS DUE TO SKEWED CURRICULA. , 2020, , .		0