

Tiago Cruz

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

971
citations

516710

16
h-index

477307

29
g-index

58
all docs

58
docs citations

58
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyber security of critical infrastructures. ICT Express, 2018, 4, 42-45.	4.8	122
2	A Cybersecurity Detection Framework for Supervisory Control and Data Acquisition Systems. IEEE Transactions on Industrial Informatics, 2016, 12, 2236-2246.	11.3	117
3	Adversarial Machine Learning Applied to Intrusion and Malware Scenarios: A Systematic Review. IEEE Access, 2020, 8, 35403-35419.	4.2	113
4	Combining ensemble methods and social network metrics for improving accuracy of OCSVM on intrusion detection in SCADA systems. Journal of Information Security and Applications, 2016, 30, 15-26.	2.5	66
5	Integrated OCSVM mechanism for intrusion detection in SCADA systems. Electronics Letters, 2014, 50, 1935-1936.	1.0	56
6	Current and Future Trends in Mobile Device Forensics. ACM Computing Surveys, 2019, 51, 1-31.	23.0	40
7	Combining K-Means and XGBoost Models for Anomaly Detection Using Log Datasets. Electronics (Switzerland), 2020, 9, 1164.	3.1	35
8	Improving network security monitoring for industrial control systems. , 2015, , .		33
9	Integrated protection of industrial control systems from cyber-attacks: the ATENA approach. International Journal of Critical Infrastructure Protection, 2018, 21, 72-82.	4.6	26
10	Virtualizing Programmable Logic Controllers: Toward a Convergent Approach. IEEE Embedded Systems Letters, 2016, 8, 69-72.	1.9	24
11	Intrusion and anomaly detection for the next-generation of industrial automation and control systems. Future Generation Computer Systems, 2021, 119, 50-67.	7.5	24
12	A stealth monitoring mechanism for cyber-physical systems. International Journal of Critical Infrastructure Protection, 2019, 24, 126-143.	4.6	23
13	A Comprehensive Security Analysis of a SCADA Protocol: From OSINT to Mitigation. IEEE Access, 2019, 7, 42156-42168.	4.2	21
14	ELEGANT: Security of Critical Infrastructures With Digital Twins. IEEE Access, 2021, 9, 107574-107588.	4.2	19
15	Specialized Honeypots for SCADA Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2015, , 251-269.	0.5	17
16	Denial of Service Attacks: Detecting the Frailties of Machine Learning Algorithms in the Classification Process. Lecture Notes in Computer Science, 2019, , 230-235.	1.3	16
17	From Detecting Cyber-Attacks to Mitigating Risk Within a Hybrid Environment. IEEE Systems Journal, 2019, 13, 424-435.	4.6	16
18	A Novel Intrusion Detection Mechanism for SCADA systems which Automatically Adapts to Network Topology Changes. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2017, 4, 152155.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Security of Building Automation and Control Systems: Survey and future research directions. Computers and Security, 2022, 112, 102527.	6.0	16
20	Mobile Forensic Data Analysis: Suspicious Pattern Detection in Mobile Evidence. IEEE Access, 2018, 6, 59705-59727.	4.2	13
21	Analyzing the Footprint of Classifiers in Adversarial Denial of Service Contexts. Lecture Notes in Computer Science, 2019, , 256-267.	1.3	13
22	Attacking SCADA systems: A practical perspective. , 2017, , .		12
23	CWMP extensions for enhanced management of domestic network services. , 2010, , .		11
24	Integration of PXE-based desktop solutions into broadband access networks. , 2010, , .		9
25	Evolving L-Systems with Musical Notes. Lecture Notes in Computer Science, 2016, , 186-201.	1.3	8
26	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. Internet Technology Letters, 2020, 3, e132.	1.9	8
27	Down the Rabbit Hole: Fostering Active Learning through Guided Exploration of a SCADA Cyber Range. Applied Sciences (Switzerland), 2021, 11, 9509.	2.5	8
28	Efficient and secure M2M communications for smart metering. , 2014, , .		7
29	Editorial: Industrial Internet of Things (IIoT). Mobile Networks and Applications, 2018, 23, 806-808.	3.3	7
30	Virtualization of Residential Gateways: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1462-1482.	39.4	7
31	A Security Monitoring Framework for Mobile Devices. Electronics (Switzerland), 2020, 9, 1197.	3.1	7
32	SDN-Enabled Virtual Data Diode. Lecture Notes in Computer Science, 2019, , 102-118.	1.3	6
33	A Distributed IDS for Industrial Control Systems. International Journal of Cyber Warfare and Terrorism, 2014, 4, 1-22.	0.5	5
34	Cooperative security management for broadband network environments. Security and Communication Networks, 2015, 8, 3953-3977.	1.5	5
35	Building an NFV-based vRCW: Lessons learned. , 2017, , .		5
36	Enabling Preos Desktop Management. , 2003, , 321-334.		4

#	ARTICLE	IF	CITATIONS
37	Keeping an Eye on Your Security Through Assurance Indicators. , 2014, , .		4
38	On the use of thin-client Set-Top Boxes for IPTV services. , 2013, , .		3
39	Optimizing the Delivery of Services Supported by Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2015, , 432-473.	0.4	3
40	Enabling preOS desktop management. , 0, , .		2
41	A Framework for Internet Media Services Delivery to the Home Environment. Journal of Network and Systems Management, 2013, 21, 99-127.	4.9	2
42	A Comparison of Classification Techniques for Detection of VoIP Traffic. , 2014, , .		2
43	Fuzzy System-Based Suspicious Pattern Detection in Mobile Forensic Evidence. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 106-114.	0.3	2
44	Effect of Network Architecture Changes on OCSVM Based Intrusion Detection System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 90-100.	0.3	2
45	Using UPnP-CWMP integration for operator-assisted management of domestic LANs. , 2012, , .		1
46	SDN-assisted containerized security and monitoring components. , 2020, , .		1
47	Revisiting the Concept of Virtualized Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2021, , 272-304.	0.4	1
48	Towards Protecting Critical Infrastructures. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 121-165.	0.4	1
49	Evolving the Security Paradigm for Industrial IoT Environments. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 69-90.	0.5	1
50	Virtualizing Customer Premises Equipment. , 2021, , .		1
51	How to provision and manage off-the-shelf SIP phones in domestic and SOHO environments. , 2011, , .		0
52	Using Low Cost Embedded Systems for Respiratory Sounds Auscultation. , 2018, , .		0
53	An Introduction to Mobile Device Security. , 2018, , 1-34.		0
54	Fostering Cybersecurity Awareness Among Computing Science Undergraduate Students: Motivating by Example. , 2020, , .		0