Tiago Cruz

List of Publications by Year
in descending order

54 papers	971 citations	516215 16 h-index	476904 29 g-index
58 all docs	58 docs citations	58 times ranked	764 citing authors

#	Article	IF	Citations
1	Security of Building Automation and Control Systems: Survey and future research directions. Computers and Security, 2022, 112, 102527.	4.0	16
2	Revisiting the Concept of Virtualized Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2021, , 272-304.	0.4	1
3	Intrusion and anomaly detection for the next-generation of industrial automation and control systems. Future Generation Computer Systems, 2021, 119, 50-67.	4.9	24
4	ELEGANT: Security of Critical Infrastructures With Digital Twins. IEEE Access, 2021, 9, 107574-107588.	2.6	19
5	Down the Rabbit Hole: Fostering Active Learning through Guided Exploration of a SCADA Cyber Range. Applied Sciences (Switzerland), 2021, 11, 9509.	1.3	8
6	Virtualizing Customer Premises Equipment. , 2021, , .		1
7	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. Internet Technology Letters, 2020, 3, e132.	1.4	8
8	Combining K-Means and XGBoost Models for Anomaly Detection Using Log Datasets. Electronics (Switzerland), 2020, 9, 1164.	1.8	35
9	A Security Monitoring Framework for Mobile Devices. Electronics (Switzerland), 2020, 9, 1197.	1.8	7
10	SDN-assisted containerized security and monitoring components. , 2020, , .		1
11	Adversarial Machine Learning Applied to Intrusion and Malware Scenarios: A Systematic Review. IEEE Access, 2020, 8, 35403-35419.	2.6	113
12	Evolving the Security Paradigm for Industrial IoT Environments. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 69-90.	0.4	1
13	Fostering Cybersecurity Awareness Among Computing Science Undergraduate Students: Motivating by Example. , 2020, , .		0
14	Current and Future Trends in Mobile Device Forensics. ACM Computing Surveys, 2019, 51, 1-31.	16.1	40
15	A Comprehensive Security Analysis of a SCADA Protocol: From OSINT to Mitigation. IEEE Access, 2019, 7, 42156-42168.	2.6	21
16	SDN-Enabled Virtual Data Diode. Lecture Notes in Computer Science, 2019, , 102-118.	1.0	6
17	Denial of Service Attacks: Detecting the Frailties of Machine Learning Algorithms in the Classification Process. Lecture Notes in Computer Science, 2019, , 230-235.	1.0	16
18	A stealth monitoring mechanism for cyber-physical systems. International Journal of Critical Infrastructure Protection, 2019, 24, 126-143.	2.9	23

#	Article	IF	Citations
19	Virtualization of Residential Gateways: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1462-1482.	24.8	7
20	From Detecting Cyber-Attacks to Mitigating Risk Within a Hybrid Environment. IEEE Systems Journal, 2019, 13, 424-435.	2.9	16
21	Analyzing the Footprint of Classifiers in Adversarial Denial of Service Contexts. Lecture Notes in Computer Science, 2019, , 256-267.	1.0	13
22	Cyber security of critical infrastructures. ICT Express, 2018, 4, 42-45.	3.3	122
23	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.	0.2	2
24	Editorial: Industrial Internet of Things (I2oT). Mobile Networks and Applications, 2018, 23, 806-808.	2.2	7
25	Mobile Forensic Data Analysis: Suspicious Pattern Detection in Mobile Evidence. IEEE Access, 2018, 6, 59705-59727.	2.6	13
26	Using Low Cost Embedded Systems for Respiratory Sounds Auscultation. , 2018, , .		0
27	Integrated protection of industrial control systems from cyber-attacks: the ATENA approach. International Journal of Critical Infrastructure Protection, 2018, 21, 72-82.	2.9	26
28	An Introduction to Mobile Device Security. , 2018, , 1-34.		0
29	Building an NFV-based vRGW: Lessons learned. , 2017, , .		5
30	Attacking SCADA systems: A practical perspective. , 2017, , .		12
31	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.	1.5	16
32	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.	0.2	2
33	Evolving L-Systems with Musical Notes. Lecture Notes in Computer Science, 2016, , 186-201.	1.0	8
34	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.	1.8	66
35	A Cybersecurity Detection Framework for Supervisory Control and Data Acquisition Systems. IEEE Transactions on Industrial Informatics, 2016, 12, 2236-2246.	7.2	117
36	Virtualizing Programmable Logic Controllers: Toward a Convergent Approach. IEEE Embedded Systems Letters, 2016, 8, 69-72.	1.3	24

#	Article	IF	Citations
37	Cooperative security management for broadband network environments. Security and Communication Networks, 2015, 8, 3953-3977.	1.0	5
38	Specialized Honeypots for SCADA Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2015, , 251-269.	0.3	17
39	Improving network security monitoring for industrial control systems. , 2015, , .		33
40	Optimizing the Delivery of Services Supported by Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2015, , 432-473.	0.4	3
41	Towards Protecting Critical Infrastructures. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 121-165.	0.4	1
42	A Distributed IDS for Industrial Control Systems. International Journal of Cyber Warfare and Terrorism, 2014, 4, 1-22.	0.3	5
43	A Comparison of Classification Techniques for Detection of VoIP Traffic. , 2014, , .		2
44	Efficient and secure M2M communications for smart metering. , 2014, , .		7
45	Integrated OCSVM mechanism for intrusion detection in SCADA systems. Electronics Letters, 2014, 50, 1935-1936.	0.5	56
46	Keeping an Eye on Your Security Through Assurance Indicators. , 2014, , .		4
47	A Framework for Internet Media Services Delivery to the Home Environment. Journal of Network and Systems Management, 2013, 21, 99-127.	3.3	2
48	On the use of thin-client Set-Top Boxes for IPTV services. , 2013, , .		3
49	Using UPnP-CWMP integration for operator-assisted management of domestic LANs. , 2012, , .		1
50	How to provision and manage off-the-shelf SIP phones in domestic and SOHO environments. , 2011, , .		0
51	CWMP extensions for enhanced management of domestic network services. , 2010, , .		11
52	Integration of PXE-based desktop solutions into broadband access networks. , 2010, , .		9
53	Enabling Preos Desktop Management. , 2003, , 321-334.		4
54	Enabling preOS desktop management. , 0, , .		2