Pavel Celeda

List of Publications by Year
in descending order

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63	1,312	933447	501196
papers	citations	10 h-index	28 g-index

66	66	66	942
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow Monitoring Explained: From Packet Capture to Data Analysis With NetFlow and IPFIX. IEEE Communications Surveys and Tutorials, 2014, 16, 2037-2064.	39.4	288
2	A survey of methods for encrypted traffic classification and analysis. International Journal of Network Management, 2015, 25, 355-374.	2.2	229
3	Survey of Attack Projection, Prediction, and Forecasting in Cyber Security. IEEE Communications Surveys and Tutorials, 2019, 21, 640-660.	39.4	172
4	HTTPS traffic analysis and client identification using passive SSL/TLS fingerprinting. Eurasip Journal on Information Security, 2016, 2016, .	2.2	60
5	KYPO Cyber Range: Design and Use Cases. , 2017, , .		52
6	What Are Cybersecurity Education Papers About?. , 2020, , .		44
7	Adaptive Multiagent System for Network Traffic Monitoring. IEEE Intelligent Systems, 2009, 24, 16-25.	4.0	43
8	Lessons learned from complex hands-on defence exercises in a cyber range. , 2017, , .		40
9	Cybersecurity knowledge and skills taught in capture the flag challenges. Computers and Security, 2021, 102, 102154.	6.0	33
10	Passive os fingerprinting methods in the jungle of wireless networks. , 2018, , .		22
11	MULTIPARAMETER MULTICHANNEL ANALYSER SYSTEM FOR CHARACTERISATION OF MIXED NEUTRON â€“ GAMMA FIELD IN THE EXPERIMENTAL REACTOR LR-O. , 2003, , .		22
12	Predictive Cyber Situational Awareness and Personalized Blacklisting. ACM Transactions on Management Information Systems, 2020, 11, 1-16.	2.8	20
13	Toward Stream-Based IP Flow Analysis. , 2017, 55, 70-76.		18
14	Network-Based HTTPS Client Identification Using SSL/TLS Fingerprinting. , 2015, , .		17
15	Embedded Malware - An Analysis of the Chuck Norris Botnet. , 2010, , .		16
16	Network traffic characterisation using flow-based statistics. , 2016, , .		15
17	Design and Evaluation of HTTP Protocol Parsers for IPFIX Measurement. Lecture Notes in Computer Science, 2013, , 136-147.	1.3	15
18	Scalable Learning Environments for Teaching Cybersecurity Hands-on. , 2021, , .		14

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19	A performance benchmark for NetFlow data analysis on distributed stream processing systems. , 2016, , .		12
20	Assessing Internet-wide Cyber Situational Awareness of Critical Sectors. , 2018, , .		12
21	CAMNEP: An intrusion detection system for highspeed networks. Progress in Informatics, 2008, , 65.	0.2	12
22	On the Sequential Pattern and Rule Mining in the Analysis of Cyber Security Alerts. , 2017, , .		11
23	Flow-Based Security Issue Detection in Building Automation and Control Networks. Lecture Notes in Computer Science, 2012, , 64-75.	1.3	11
24	An investigation into teredo and 6to4 transition mechanisms: Traffic analysis. , 2013, , .		10
25	Network Intrusion Detection by Means of Community of Trusting Agents. , 2007, , .		9
26	Traffic Measurement and Analysis of Building Automation and Control Networks. Lecture Notes in Computer Science, 2012, , 62-73.	1.3	8
27	ACEMIND: The Smart Integrated Home Network. , 2014, , .		7
28	Dataset of shell commands used by participants ofÂhands-onÂcybersecurity training. Data in Brief, 2021, 38, 107398.	1.0	7
29	Agent-Based Network Intrusion Detection System. , 2007, , .		6
30	Student assessment in cybersecurity training automated by pattern mining and clustering. Education and Information Technologies, 2022, 27, 9231-9262.	5.7	6
31	Evaluating Two Approaches to Assessing Student Progress in Cybersecurity Exercises. , 2022, , .		6
32	Toward real-time network-wide cyber situational awareness. , 2018, , .		5
33	Revealing and analysing modem malware. , 2012, , .		4
34	Cloud-based security research testbed: A DDoS use case. , 2014, , .		4
35	Convergent and reliable hybrid home networks. , 2016, , .		4
36	Next Generation Application-Aware Flow Monitoring. Lecture Notes in Computer Science, 2014, , 173-178.	1.3	4

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37	Monitoring of Tunneled IPv6 Traffic Using Packet Decapsulation and IPFIX (Short Paper). Lecture Notes in Computer Science, 2011, , 64-71.	1.3	4
38	Situational Awareness: Detecting Critical Dependencies and Devices in a Network. Lecture Notes in Computer Science, 2017, , 173-178.	1.3	4
39	Identification of Attack Paths Using Kill Chain and Attack Graphs. , 2022, , .		4
40	High-Speed Network Traffic Acquisition for Agent Systems. , 2007, , .		3
41	Cyber Situation Awareness via IP Flow Monitoring. , 2020, , .		3
42	Using TLS Fingerprints for OS Identification in Encrypted Traffic. , 2020, , .		3
43	Applications of educational data mining and learning analytics on data from cybersecurity training. Education and Information Technologies, 2022, 27, 12179-12212.	5.7	3
44	Report on the 8th International Conference on Autonomous Infrastructure, Management, and Security (AIMS 2014). Journal of Network and Systems Management, 2015, 23, 794-802.	4.9	2
45	Data-Driven Intelligence for Characterizing Internet-Scale IoT Exploitations. , 2018, , .		2
46	Predictions of Network Attacks in Collaborative Environment. , 2020, , .		2
47	Collaborative Attack Detection in High-Speed Networks. Lecture Notes in Computer Science, 2007, , 73-82.	1.3	2
48	High-Performance Agent System for Intrusion Detection in Backbone Networks. Lecture Notes in Computer Science, 2007, , 134-148.	1.3	2
49	KYPO4INDUSTRY. , 2020, , .		2
50	Toolset for Collecting Shell Commands and Its Application in Hands-on Cybersecurity Training. , 2021, , .		2
51	Encrypted Web traffic dataset: Event logs and packet traces. Data in Brief, 2022, 42, 108188.	1.0	2
52	Report on the 7th International Conference on Autonomous Infrastructure, Management, and Security (AIMS 2013): Emerging Management Mechanisms for the Future Internet. Journal of Network and Systems Management, 2014, 22, 289-296.	4.9	1
53	On Information Value of Top N Statistics. , 2016, , .		1
54	Network Defence Using Attacker-Defender Interaction Modelling. Lecture Notes in Computer Science, 2016, , 127-131.	1.3	1

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55	Honeypot testbed for network defence strategy evaluation. , 2017, , .		1
56	Detecting Advanced Network Threats Using a Similarity Search. Lecture Notes in Computer Science, 2016, , 137-141.	1.3	1
57	Improving Anomaly Detection Error Rate by Collective Trust Modeling. Lecture Notes in Computer Science, 2008, , 398-399.	1.3	1
58	Collaborative Approach to Network Behavior Analysis. Communications in Computer and Information Science, 2008, , 153-160.	0.5	1
59	Detection of DNS Traffic Anomalies in Large Networks. Lecture Notes in Computer Science, 2014, , 215-226.	1.3	1
60	Collaborative approach to network behaviour analysis based on hardware-accelerated FlowMon probes. International Journal of Electronic Security and Digital Forensics, 2009, 2, 35.	0.2	0
61	Enriching DNS Flows with Host-Based Events to Bypass Future Protocol Encryption. IFIP Advances in Information and Communication Technology, 2021, , 302-316.	0.7	0
62	Enhancing Network Security: Host Trustworthiness Estimation. Lecture Notes in Computer Science, 2014, , 63-68.	1.3	0
63	HTTPS Event-Flow Correlation: Improving Situational Awareness in Encrypted Web Traffic. , 2022, , .		0