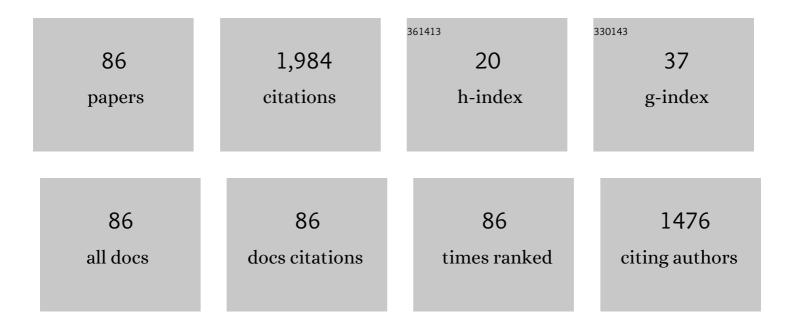
List of Publications by Year in descending order

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FLIAS ROULHADR

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Demystifying IoT Security: An Exhaustive Survey on IoT Vulnerabilities and a First Empirical Look on Internet-Scale IoT Exploitations. IEEE Communications Surveys and Tutorials, 2019, 21, 2702-2733. | 39.4 | 468 |
| 2 | Survey of Attack Projection, Prediction, and Forecasting in Cyber Security. IEEE Communications Surveys and Tutorials, 2019, 21, 640-660. | 39.4 | 172 |
| 3 | Cyber Scanning: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 1496-1519. | 39.4 | 127 |
| 4 | A Big Data-Enabled Consolidated Framework for Energy Efficient Software Defined Data Centers in IoT Setups. IEEE Transactions on Industrial Informatics, 2020, 16, 2687-2697. | 11.3 | 75 |
| 5 | An Exhaustive Survey on P4 Programmable Data Plane Switches: Taxonomy, Applications, Challenges, and Future Trends. IEEE Access, 2021, 9, 87094-87155. | 4.2 | 68 |
| 6 | A Collaborative Security Framework for Software-Defined Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 2602-2615. | 6.9 | 57 |
| 7 | Internet-scale Probing of CPS: Inference, Characterization and Orchestration Analysis. , 2017, , . | | 53 |
| 8 | On data-driven curation, learning, and analysis for inferring evolving internet-of-Things (IoT) botnets in the wild. Computers and Security, 2020, 91, 101707. | 6.0 | 42 |
| 9 | Comprehending the IoT cyber threat landscape: A data dimensionality reduction technique to infer and characterize Internet-scale IoT probing campaigns. Digital Investigation, 2019, 28, S40-S49. | 3.2 | 41 |
| 10 | A Multi-Dimensional Deep Learning Framework for IoT Malware Classification and Family Attribution. IEEE Transactions on Network and Service Management, 2021, 18, 1165-1177. | 4.9 | 40 |
| 11 | Inferring distributed reflection denial of service attacks from darknet. Computer Communications, 2015, 62, 59-71. | 5.1 | 36 |
| 12 | Internet of Malicious Things: Correlating Active and Passive Measurements for Inferring and Characterizing Internet-Scale Unsolicited IoT Devices. IEEE Communications Magazine, 2018, 56, 170-177. | 6.1 | 32 |
| 13 | On fingerprinting probing activities. Computers and Security, 2014, 43, 35-48. | 6.0 | 31 |
| 14 | Cyber Meets Control: A Novel Federated Approach for Resilient CPS Leveraging Real Cyber Threat Intelligence. , 2017, 55, 198-204. | | 31 |
| 15 | Fingerprinting Internet DNS Amplification DDoS Activities. , 2014, , . | | 29 |
| 16 | Towards a Forecasting Model for Distributed Denial of Service Activities. , 2013, , . | | 27 |
| 17 | A novel cyber security capability: Inferring Internet-scale infections by correlating malware and probing activities. Computer Networks, 2016, 94, 327-343. | 5.1 | 26 |
| 18 | Big Data Behavioral Analytics Meet Graph Theory: On Effective Botnet Takedowns. IEEE Network, 2017, 31, 18-26. | 6.9 | 25 |

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| 19 | An emulation-based evaluation of TCP BBRv2 Alpha for wired broadband. Computer Communications, 2020, 161, 212-224. | 5.1 | 25 |
| 20 | Multidimensional investigation of source port 0 probing. Digital Investigation, 2014, 11, S114-S123. | 3.2 | 23 |
| 21 | A Brief Survey of Security Approaches for Cyber-Physical Systems. , 2016, , . | | 23 |
| 22 | A survey on security applications of P4 programmable switches and a STRIDE-based vulnerability assessment. Computer Networks, 2022, 207, 108800. | 5.1 | 21 |
| 23 | Investigating the dark cyberspace: Profiling, threat-based analysis and correlation. , 2012, , . | | 20 |
| 24 | A systematic approach for detecting and clustering distributed cyber scanning. Computer Networks, 2013, 57, 3826-3839. | 5.1 | 20 |
| 25 | A Comprehensive Tutorial on Science DMZ. IEEE Communications Surveys and Tutorials, 2019, 21, 2041-2078. | 39.4 | 20 |
| 26 | Towards a Unified In-Network DDoS Detection and Mitigation Strategy. , 2020, , . | | 20 |
| 27 | Inferring and Investigating IoT-Generated Scanning Campaigns Targeting a Large Network Telescope. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 402-418. | 5.4 | 20 |
| 28 | Predictive Cyber Situational Awareness and Personalized Blacklisting. ACM Transactions on Management Information Systems, 2020, 11, 1-16. | 2.8 | 20 |
| 29 | A survey of methods supporting cyber situational awareness in the context of smart cities. Journal of Big Data, 2020, 7, . | 11.0 | 19 |
| 30 | A Statistical Approach for Fingerprinting Probing Activities. , 2013, , . | | 18 |
| 31 | On the inference and prediction of DDoS campaigns. Wireless Communications and Mobile Computing, 2015, 15, 1066-1078. | 1.2 | 17 |
| 32 | Inferring, Characterizing, and Investigating Internet-Scale Malicious IoT Device Activities: A Network Telescope Perspective. , 2018, , . | | 17 |
| 33 | Enabling TCP Pacing using Programmable Data Plane Switches. , 2019, , . | | 17 |
| 34 | Behavioral analytics for inferring large-scale orchestrated probing events. , 2014, , . | | 16 |
| 35 | On Ransomware Family Attribution Using Pre-Attack Paranoia Activities. IEEE Transactions on Network and Service Management, 2022, 19, 19-36. | 4.9 | 16 |
| 36 | A Strings-Based Similarity Analysis Approach for Characterizing IoT Malware and Inferring Their Underlying Relationships. IEEE Networking Letters, 2021, 3, 161-165. | 1.9 | 16 |

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| 37 | On the impact of empirical attack models targeting marine transportation. , 2017, , . | | 14 |
| 38 | Data-driven Curation, Learning and Analysis for Inferring Evolving IoT Botnets in the Wild. , 2019, , . | | 14 |
| 39 | Internet-scale Insecurity of Consumer Internet of Things. ACM Transactions on Management Information Systems, 2020, 11, 1-24. | 2.8 | 14 |
| 40 | A Time Series Approach for Inferring Orchestrated Probing Campaigns by Analyzing Darknet Traffic. , 2015, , . | | 12 |
| 41 | Assessing Internet-wide Cyber Situational Awareness of Critical Sectors. , 2018, , . | | 12 |
| 42 | On the Sequential Pattern and Rule Mining in the Analysis of Cyber Security Alerts. , 2017, , . | | 11 |
| 43 | A Review of Recent Advances and Security Challenges in Emerging E-Enabled Aircraft Systems. IEEE Access, 2019, 7, 63164-63180. | 4.2 | 11 |
| 44 | Decentralized Distribution of PCP Mappings Over Blockchain for End-to-End Secure Direct Communications. IEEE Access, 2019, 7, 110159-110173. | 4.2 | 10 |
| 45 | Theoretic derivations of scan detection operating on darknet traffic. Computer Communications, 2019, 147, 111-121. | 5.1 | 9 |
| 46 | Offloading Media Traffic to Programmable Data Plane Switches. , 2020, , . | | 9 |
| 47 | Towards a Big Data Architecture for Facilitating Cyber Threat Intelligence. , 2016, , . | | 8 |
| 48 | A first empirical look on internet-scale exploitations of IoT devices. , 2017, , . | | 8 |
| 49 | Big Data Sanitization and Cyber Situational Awareness: A Network Telescope Perspective. IEEE Transactions on Big Data, 2019, 5, 439-453. | 6.1 | 8 |
| 50 | Stochastic Modeling, Analysis and Investigation of IoT-Generated Internet Scanning Activities. IEEE Networking Letters, 2020, 2, 159-163. | 1.9 | 8 |
| 51 | Exploiting Ransomware Paranoia For Execution Prevention. , 2020, , . | | 8 |
| 52 | Inferring internet-scale infections by correlating malware and probing activities. , 2014, , . | | 7 |
| 53 | Behavioral Service Graphs: A formal data-driven approach for prompt investigation of enterprise and internet-wide infections. Digital Investigation, 2017, 20, S47-S55. | 3.2 | 7 |
| 54 | CSC-Detector: A System to Infer Large-Scale Probing Campaigns. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 364-377. | 5.4 | 7 |

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| 55 | A Blockchain-based Method for Decentralizing the ACME Protocol to Enhance Trust in PKI. , 2020, , . | | 7 |
| 56 | Cyber Threat Intelligence for the Internet of Things. , 2020, , . | | 7 |
| 57 | Passive inference of attacks on SCADA communication protocols. , 2016, , . | | 6 |
| 58 | A behavioral-based forensic investigation approach for analyzing attacks on water plants using GANs. Forensic Science International: Digital Investigation, 2021, 37, 301198. | 1.7 | 6 |
| 59 | A probabilistic model to preprocess darknet data for cyber threat intelligence generation. , 2016, , . | | 5 |
| 60 | Implications of Theoretic Derivations on Empirical Passive Measurements for Effective Cyber Threat Intelligence Generation. , 2018, , . | | 5 |
| 61 | Sanitizing the IoT Cyber Security Posture: An Operational CTI Feed Backed up by Internet Measurements. , 2021, , . | | 5 |
| 62 | EVOLIoT., 2022,,. | | 5 |
| 63 | A secure, efficient, and costâ€effective distributed architecture for spam mitigation on LTE 4G mobile networks. Security and Communication Networks, 2013, 6, 1478-1489. | 1.5 | 4 |
| 64 | Passive inference of attacks on CPS communication protocols. Journal of Information Security and Applications, 2018, 43, 110-122. | 2.5 | 3 |
| 65 | On Secrecy Bounds of MIMO Wiretap Channels with ZF detectors. , 2018, , . | | 3 |
| 66 | Dynamic Router's Buffer Sizing using Passive Measurements and P4 Programmable Switches. , 2021, , . | | 3 |
| 67 | HoneyComb: A Darknet-Centric Proactive Deception Technique For Curating IoT Malware Forensic Artifacts. , 2022, , . | | 3 |
| 68 | On detecting and clustering distributed cyber scanning. , 2013, , . | | 2 |
| 69 | On correlating network traffic for cyber threat intelligence: A Bloom filter approach. , 2017, , . | | 2 |
| 70 | Data-Driven Intelligence for Characterizing Internet-Scale IoT Exploitations. , 2018, , . | | 2 |
| 71 | A Scalable Platform for Enabling the Forensic Investigation of Exploited IoT Devices and Their Generated Unsolicited Activities. Forensic Science International: Digital Investigation, 2020, 32, 300922. | 1.7 | 2 |
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| 73 | Towards the Leveraging of Data Deduplication to Break the Disk Acquisition Speed Limit. , 2016, , . | | 1 |
| 74 | On Inferring and Characterizing Large-Scale Probing and DDoS Campaigns. , 2018, , 461-474. | | 1 |
| 75 | Leveraging SONiC Functionalities in Disaggregated Network Switches. , 2020, , . | | 1 |
| 76 | A Multidimensional Network Forensics Investigation of a State-Sanctioned Internet Outage. , 2021, , . | | 1 |
| 77 | Revisiting IoT Fingerprinting behind a NAT. , 2021, , . | | 1 |
| 78 | Training and Teaching Students and IT Professionals on High-throughput Networking and Cybersecurity Using a Private Cloud. , 0, , . | | 1 |
| 79 | An attentive interpretable approach for identifying and quantifying malware-infected internet-scale IoT bots behind a NAT. , 2022, , . | | 1 |
| 80 | A first look on the effects and mitigation of VoIP SPIT flooding in 4G mobile networks. , 2012, , . | | 0 |
| 81 | Behavioral Service Graphs: A Big Data Approach for Prompt Investigation of Internet-Wide Infections. , 2016, , . | | Ο |
| 82 | On the Collaborative Inference of DDoS: An Information-theoretic Distributed Approach. , 2018, , . | | 0 |
| 83 | Vec2UAge: Enhancing underage age estimation performance through facial embeddings. Forensic Science International: Digital Investigation, 2021, 36, 301119. | 1.7 | Ο |
| 84 | Towards Inferring IoT Maliciousness. , 2020, , 59-76. | | 0 |
| 85 | Fingerprinting IoT Devices with Machine Learning. , 2021, , 1-4. | | 0 |
| 86 | A live digital forensics approach for quantum mechanical computers. Forensic Science International: Digital Investigation, 2022, 40, 301341. | 1.7 | 0 |