Special Issue

Approaches to Cyber Attacks and Malware Detection

Message from the Guest Editors

The detection of cyberattacks and malware has been a pressing topic in recent years. In this ongoing race between detection and response, it is crucial to refine the scope of analysis, modeling, mitigation, and remediation across the vast array of attacks and malware strains by proposing innovative and effective solutions. This Special Issue focuses on the study of algorithms, tactics, procedures, workflows, tools, and technologies that can combat cyberattacks and malware. Topics of interest include, but are not limited to, the following:

AI and ML for cyberattack and malware detection:

- Zero-day exploitation, detection, and remediation;
- Behavioral analysis for threat modeling for cyberattack and malware strains;
- Threat hunting for cyberattack and malware;
- Adversarial simulation for cyberattack and malware;
- Blockchain-based solutions for cyberattack and malware prevention;
- Automated incident response for cyberattack and malware;
- Malware and cyberattack countermeasures in cloud and IoT environments;
- Advanced persistent threat recognition, analysis, and mitigation.

Guest Editors

Dr. Aldo Hernandez-Suarez

Dr. Jose Portillo-Portillo

Prof. Dr. Gabriel Sanchez-Perez

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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