Special Issue

Malware Behavior Analysis Applying Machine Learning

Message from the Guest Editors

This Special Issue seeks contributions reporting on recent advancements concerning malware behavior analyses using machine learning capabilities, automation approaches, knowledge extraction, behavioral information sources and introspection techniques. This includes novel technologies deploying behavioral analyses using machine learning and a discussion regarding the deployment of novel applications and frameworks. Moreover, the Special Issue also considers AI-based applications to deploy and manage next-generation malware behavioral analyses in virtualized and cloud computing environments. The basic idea is to propose new approaches and ideas and present applications of innovative approaches employing machine learning. Topics of interest include, but are not limited to, the following:

- Trends and challenges for malware analysis;
- Virtualization environments;
- Data analysis techniques;
- Behavioral data extraction, type and manner;
- Analysis frameworks;
- Machine learning and deep learning performance;
- Model efficiency and accuracy;
- Algorithms and data encoders;
- Malware and anomaly detection;
- Virtual memory forensic;
- Cloud security;
- Trustworthy AI in cybersecurity.

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Deadline for manuscript submissions

closed (20 December 2023)

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Message from the Editor-in-Chief

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Editor-in-Chief

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