Network Intrusion Detection and Attack Identification

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Message from the Guest Editors

Network security is becoming more and more complicated and challenging than ever with the emergence of the IoT, 5G and beyond networks.

This Special Issue encourages artificial intelligence and security researchers and practitioners to submit their novelty solutions for the robustness, reliability, explainability, trustworthiness, and adaptability of AI-based Network Intrusion Detection and Attack Identification models with corresponding network traffic datasets.

Topics of interest include, but are not limited to:

- AI-based Network Attack Detection, Classification and Mitigation;
- Threat Detection and Mitigation using MITRE ATT&CK;
- Robust and Reliable Attack Detection and Identification;
- AI-based Network Attack Generation and Defense;
- Adversarial Learning for Network Intrusion Detection;
- Interpretable Network Intrusion Detection;
- Next-generation of Network Intrusion Detection and Attack Identification Systems;
- Unsupervised Network Anomaly Detection;
- Network Anomaly Detection with Domain Adaption;
- Network Anomaly Detection based on Transfer Learning.

Special Issue

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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.

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