Adversarial Attacks and Cyber Security: Trends and Challenges

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Message from the Guest Editors

Security incidents, including adversarial attacks and vulnerabilities, have presented significant challenges to cyberspace security. To counter and defend against these threats, many researchers are leveraging cutting-edge technologies for automated and intelligent analysis as well as detection. Techniques such as information theory, graph theory, and artificial intelligence are extensively applied within security. Despite these advancements, the emergence of adversarial attacks and new security threats still leaves many unresolved problems, such as network attack detection, threat intelligence extraction, and the analysis of malicious behavior.

Therefore, this Special Issue intends to explore new approaches and perspectives on adversarial attacks and cyber security topics. This Special Issue will focus on (but is not limited to) the following topics:

- Network attack intelligence detection;
- Cyber threat intelligence and analysis;
- System or mobile malware identification;
- System or network attack attribution;
- Vulnerability mining and analysis;
- AI security and attack;
- Data and privacy security;
- Detection and evasion.

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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