AI for Cybersecurity

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Message from the Guest Editor

Since the development of information system, cybersecurity has become a critical concern for many teams. Moreover, the concept of cyber warfare has emerged and been widely used due to cyberattacks. Traditionally, security experts have defined the rules to detect the threats from the signatures of the observed similar threats. However, the targets of cyberattacks are becoming more diverse. Additionally, new and sophisticated attacks have become a recent category of severe threat. Due to the continued introduction of such diversified threats, rule-based approaches have failed to respond to such uncertainty. Artificial intelligence can be effective in discovering new threats that share their characteristics with the existing one.

This Special Issue provides communication on the latest artificial intelligence technologies to counter security threats that can be applied to components related to information systems. Papers can cover the offensive/defensive applications associated with cybersecurity from academia to industry, such as an adversarial attack, steganography, malware detection, vulnerability discovery, authentication, and the learning theory for security application.

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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