Special Issue

Navigating AI Challenges in Cybersecurity: Strategies for Industrial and IoT Protection

Message from the Guest Editors

This Special Issue tackles pressing challenges in cybersecurity, with a specific focus on protecting industrial control systems and Internet of Things (IoT) devices in the rapidly evolving domain of machine learning and Al applications. A pivotal concern is the resilience of Al-driven systems to the complexities of Adversarial Machine Learning (AML) and the phenomenon of concept drift. While these factors are not direct cyber-attacks, they significantly undermine the effectiveness and dependability of Al models used in cybersecurity. This can lead to severe cybersecurity repercussions, as vulnerabilities in AI can be exploited to compromise the security and integrity of critical systems. Understanding and mitigating these Al-related issues is crucial for maintaining robust cybersecurity defenses in our increasingly interconnected and Aldependent world.

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