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

Guest Editors:

Dr. Eirini Anthi

School of Computer Science and Informatics, Cardiff University, Cardiff CF10 3AT, UK

Dr. Lowri Williams

School of Computer Science and Informatics, Cardiff University, Cardiff CF10 3AT, UK

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Message from the Guest Editors

Dear Colleagues,

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 AI 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 dependability of AI models used in cybersecurity. This can severe cybersecurity repercussions, 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 increasingly interconnected and AI-dependent world.











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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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