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 AI applications. A pivotal concern is the resilience of AI-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 AI 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 AI-related issues is crucial for maintaining robust cybersecurity defenses in our increasingly interconnected and AI-dependent world.

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

Deadline for manuscript submissions

12 December 2025

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/196384

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI