Special Issue

Novel Approaches for Deep Learning in Cybersecurity

Message from the Guest Editors

This Special Issue aims to highlight recent advances and novel methodologies in applying deep learning to cybersecurity, focusing on solutions that improve the accuracy, scalability, and resilience of intelligent security systems. We are particularly interested in contributions that explore real-time threat detection, adversarial robustness, privacy-preserving AI, and secure architectures for emerging environments such as cloud, edge, and IoT ecosystems. **Topics of interest include but are not limited to:**

- Deep learning models for intrusion detection and malware classification;
- Federated and privacy-preserving learning for cybersecurity;
- Adversarial machine learning and defense mechanisms;
- Secure biometric authentication and identity management;
- Multimodal threat intelligence systems;
- Explainable AI (XAI) in cybersecurity applications;
- Applications of GNNs, transformers, and generative models in cyber defense.

Guest Editors

Dr. Mehdi Ghayoumi
Department of Cybersecurity, School of Science, Health and Criminal Justice, State University of New York, Canton, NY 13617, USA

Dr. Kambiz Ghazinour
Department of Cybersecurity, School of Science, Health and Criminal Justice, State University of New York, Canton, NY 13617, USA

Deadline for manuscript submissions

15 January 2026

Electronics

MDPI

Electronics

MDPI

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).