Special Issue

Recent Advances in Anomaly Detection and Network Security

Message from the Guest Editors

In the digital transformation era, the volume and complexity of data transmitted across networks have increased exponentially. With the proliferation of connected devices, cloud computing, and IoT, safeguarding data integrity and ensuring network security have become paramount. Anomaly detection is a crucial aspect of network security, enabling the identification of unusual patterns that may indicate malicious activities such as cyber-attacks, unauthorized access, or data breaches. This Special Issue seeks to provide a comprehensive platform for disseminating cutting-edge research in this dynamic field. The goal is to bring together contributions that address both theoretical and practical aspects of anomaly detection, with a particular focus on applications in network security. Research areas may include (but not limited to) the following:

- Machine learning-enhanced hardware and AI for anomaly detection.
- Edge computing and big data analytics in network security.
- Hardware acceleration of machine learning for security applications.
- Embedded machine learning for IoT security.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2025)

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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