

Special Issue

Emerging Technologies for Network Security and Anomaly Detection

Message from the Guest Editors

We welcome submissions on (but not limited to) the following topics:

- AI and machine learning for intrusion detection and anomaly detection;
- Blockchain and distributed ledger technologies for secure networking;
- Zero-trust architectures and their applications in modern networks;
- Next-generation intrusion prevention and detection systems;
- Federated learning and privacy-preserving network security;
- Threat intelligence and automated cyber threat response;
- Secure network protocols and cryptographic techniques;
- Deep learning approaches for network traffic analysis;
- Adversarial attacks and defenses in network security;
- Quantum computing and its implications for network security;
- Real-time anomaly detection in cloud, edge, and IoT networks;
- Software-defined networking (SDN) and network function virtualization (NFV) for security enhancement;
- Large-scale datasets and benchmarks for network anomaly detection;
- Case studies on security breaches and lessons learned.

Guest Editors

Prof. Dr. Yu-Kuen Lai

Prof. Dr. Kouji Hirata

Dr. Tomotaka Kimura

Deadline for manuscript submissions

closed (15 October 2025)



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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).