

Special Issue

Network Traffic Analysis for Enhanced Cybersecurity

Message from the Guest Editor

This Special Issue aims to bring together researchers and practitioners involved in the field of network traffic analysis for cybersecurity. This Special Issue invites submissions that present novel methodologies, models, and frameworks to enhance cybersecurity. In this Special Issue, articles describing innovative methodologies, models, frameworks, and practical solutions that advance the capabilities of traffic analysis for proactive cyber defense are welcomed.

Contributions addressing the challenges of encrypted traffic analysis, real-time monitoring, and privacy preservation are also strongly encouraged. We particularly encourage contributions exploring the application of traffic analysis to address contemporary security challenges within complex environments.

The topics of particular interest include, but are not limited to, the following:

- Network traffic modeling, profiling, and visualization;
- Intelligent anomaly and intrusion detection systems;
- Encrypted and privacy-preserving traffic analytics;
- Real-time threat detection and automated response;
- Cyber threat intelligence and network forensics;
- Privacy-Preserving Techniques.

Guest Editor

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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.

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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).