

Special Issue

Secure Networking: Advances in Network Attack Detection and Protocol Security

Message from the Guest Editors

Blend zero-day exploitation, protocol ossification abuse, and cross-layer stealth techniques routinely evade legacy, signature-based defenses. Weaknesses in transport security (e.g., TLS), DNS, routing (e.g., BGP hijacking), or emerging low-power IoT protocols can destabilize entire ecosystems. This Special Issue seeks papers that bridge theory and practice in network attack detection and protocol security. Topics of interest include, but are not limited to, the following:

- Routing security;
- DNS and HTTP security;
- Network transportation security;
- Network attack detection;
- Protocol security analysis;
- Security measurement;
- IoT security;
- 5G/6G security;
- Situation awareness;
- Adversarial-aware detection models;
- Formal verification and model checking of protocol stacks;
- Fuzzing, symbolic execution, and differential testing for network protocols;
- Protocol Vulnerability Discovery;
- Attack simulation testbeds and cyber ranges;
- Cyber-physical/ICS and vehicular network security;
- Dataset generation, curation, and benchmark design for network attack and defense.

Guest Editors

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Deadline for manuscript submissions

15 February 2026



Electronics

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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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