

Special Issue

Anomaly and Intrusion Detection in Networks

Message from the Guest Editors

We invite original research papers, reviews, and case studies. Topics of interest include, but are not limited to, the following:

- AI and Machine Learning for Intrusion Detection: Supervised, unsupervised, and reinforcement learning techniques for detecting anomalies in heterogeneous IoT and IIoT networks;
- IoT and IIoT Security: Intrusion detection tailored to IoT ecosystems, industrial IoT deployments, and cyber-physical systems;
- Hybrid and Knowledge-Driven Methods: Combining statistical, rule-based, and AI-powered approaches for more accurate anomaly detection;
- Trustworthy and Explainable AI (XAI): Ensuring intrusion detection systems are interpretable, transparent, and secure;
- Honeypots and Digital Twins: Deception- and simulation-based techniques to early detect and analyze advanced threats;
- Innovative Approaches: Emerging and unconventional methods that advance anomaly and intrusion detection beyond existing paradigms;
- Critical Infrastructure Applications: Case studies on anomaly and intrusion detection in smart grids, healthcare, transportation, and other mission-critical domains.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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