

## Special Issue

# Security and Privacy in IoT: Challenges and Emerging Approaches

### Message from the Guest Editors

This Special Issue will bring together ground-breaking research, practical methods, and new technologies that tackle the IoT ecosystem's urgent security and privacy challenges. It will bridge the gap between theory and practice by offering researchers and industry leaders a platform to share innovative solutions and strategies for safeguarding IoT networks, inspiring them to contribute unique ideas and solutions. Suggested themes include the following:

- AI-driven threat detection;
- Blockchain-based IoT security;
- Security and Privacy in IoT;
- Intrusion detection in resource constrained environments;
- Zero-trust architectures in IoT networks;
- Securing IoT in critical infrastructure;
- IoT security in smart homes;
- Trust management systems for IoT devices and networks;
- IoT Vulnerability Assessment and Penetration Testing;
- IoT security in the Industrial Internet of Things (IIoT): threats and countermeasures;
- IoT security for environmental monitoring and agriculture systems.

### Guest Editors

Dr. Yussuf Ahmed

Dr. Fuad A. Ghaleb

Dr. Tawfik Al-Hadhrami

### Deadline for manuscript submissions

15 September 2025



## 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 guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

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