

## Special Issue

# Next-Generation IoT: Integrating AI for Cybersecurity and System Trust

### Message from the Guest Editors

This Special Issue, entitled “Next-Generation IoT: Integrating AI for Cybersecurity and System Trust,” aims to bring together state-of-the-art research and practical insights into how AI can fortify IoT systems against cyber threats while improving system transparency, resilience, and user confidence. We welcome high-quality submissions exploring the intersection of IoT, AI, and cybersecurity, including novel methodologies, architectures, applications, and case studies.

#### Topics of interest include, but are not limited to:

- AI-based intrusion detection and prevention for IoT networks;
- Federated learning and privacy-preserving AI in IoT;
- Trust management and identity verification using AI;
- Threat intelligence and anomaly detection using machine/deep learning;
- Edge and fog intelligence for secure IoT decision-making;
- Blockchain and AI synergy for secure IoT transactions;
- Resilient IoT architectures supported by intelligent systems;
- Explainable AI (XAI) for trust and transparency in IoT;
- Secure communication protocols enhanced by AI;
- Case studies and applications in smart cities, smart homes, healthcare, and industrial IoT.

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### Guest Editors

Dr. Rabab Al-Zaidi  
Dr. Hisham AbouGrad  
Dr. Ahmed Abubahia

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### Deadline for manuscript submissions

15 September 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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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