

## Special Issue

# Emerging IoT Sensor Network Technologies and Applications

### Message from the Guest Editors

The rapid evolution of Internet of Things technologies has transformed how we interact with the physical world by integrating sensor networks into diverse applications.

At the core of this field is the convergence of advanced sensing technologies, low-power wireless communication protocols, and data-driven analytics, enabled by 5G, edge computing, and AI-powered analytics. These advancements allow for faster, more efficient, and context-aware systems, addressing critical challenges like resource efficiency, real-time decision-making, and scalable deployments.

This Special Issue aims to showcase cutting-edge research and innovative applications of emerging IoT sensor network technologies. It focuses on advancements in IoT sensor networks and their applications, aligning with the scope of *Electronics*.

- Next-Generation IoT Sensors
- Low-Power Communication Protocols
- Edge Computing in IoT Sensor Networks
- AI and Machine Learning for IoT
- 5G and Beyond for IoT Connectivity
- Security and Privacy in IoT Sensor Networks
- IoT for Smart Cities
- Industrial IoT (IIoT) Applications
- Energy Harvesting for IoT Sensors
- Environmental and Healthcare Applications

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### Deadline for manuscript submissions

closed (15 March 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

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