

## Special Issue

# Recent Advancements in Sensor Networks and Communication Technologies

### Message from the Guest Editors

The Special Issue will highlight cutting-edge algorithms, cross-layer optimization techniques, architectures and frameworks for next-generation WSNs, networking devices, IoT, fog, and pervasive computing environments. It will also feature AI/ML algorithms for communications, algorithms and techniques, as well as state-of-the-art communication technologies that are vital for our society. The contribution topics of primary interest include, but are not limited to, the following:

- Wireless Sensor Networks (WSNs): Architectures, Protocols, and Applications;
- Ad Hoc, Mesh, and Underwater Sensor Networks;
- Wireless Traffic Management and Routing Techniques;
- Cross-Layer Optimization in Wireless and IoT Networks;
- Wireless Multimedia Communications;
- IoT Communication Protocols (e.g., ZigBee, BLE, NFC, MQTT, XMPP);
- Network Performance, Quality of Service (QoS), and Reliability;
- Energy-Efficient Routing in WSNs, IoT, and Fog Networks;
- Topology Control in 2D and 3D WSNs, IoT, and Fog Environments;
- .....

### Guest Editors

Dr. Apostolos Xenakis

Dr. Costas Chaikalis

Dr. Dimitrios Kosmanos

Dr. Vasileios Vlachos

### Deadline for manuscript submissions

15 November 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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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