



## Exploring Electronics and Cooperation in Wireless Sensor Networks: IoT, Blockchain, and 5G Technologies

Guest Editor:

### Dr. Antonio J. Jara

1. Institute of Information Systems, University of Applied Sciences Western Switzerland (HES-SO), 3960 Sierre, Switzerland

2. HOP Ubiquitous S.L. (Libelium Murcia), Ceutí 30562, Spain

Deadline for manuscript submissions:

**15 November 2024**

### Message from the Guest Editor

Dear Colleagues,

We invite authors to submit original research papers, review articles, case studies, and technical reports covering a wide range of topics, including but not limited to:

- Electronics and hardware design for WSNs in the IoT era;
- Blockchain technology and its applications in WSNs;
- 5G networks and their impact on WSN performance and capabilities;
- The integration of IoT, blockchain, and 5G technologies for enhanced WSN cooperation;
- Energy-efficient communication protocols for IoT-enabled WSNs;
- Security, privacy, and trust issues in IoT-based WSNs with blockchain and 5G integration;
- Data management, analytics, and decision-making in IoT, blockchain, and 5G-enabled WSNs;
- Interoperability and standardization in IoT, blockchain, and 5G-based WSNs;
- Scalability and resource management in cooperative WSNs leveraging IoT, blockchain, and 5G technologies;
- Real-world applications, case studies, and implementation challenges of IoT, blockchain, and 5G in WSNs





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)