

## Special Issue

# Intelligent Distributed Resource Allocation in Wireless Sensor Networks (WSNs)

### Message from the Guest Editors

This Special Issue focuses on techniques in the scientific or engineering field of advanced WSNs, with review and research articles regarding the state-of-the-art development of WSNs for emerging applications to be considered for publication. Appropriate topics include, but are not limited to:

- AI-based resource allocation techniques in wireless sensor and IoT networks;
- Intelligent distributed resource allocation for WSNs;
- Collaborative multi-agent resource allocation for WSNs (e.g., federated learning);
- Optimization models for resource allocations for heterogeneous WSNs;
- Understanding the complexity of the interworking of WSNs, CRNs in IoT;
- Optimal use of both the licensed and unlicensed channels for WSNs—resource allocation and scheduling;
- Multi-objective resource allocation schemes for WSNs;
- Wireless-specific security, privacy, and authentication;
- Wireless sensor networks for a specific vertical field (e.g., e-health, smart cities, etc.).

Welcome to contribute!

---

### Guest Editors

Prof. Dr. Seokjoo Shin

Department of Computer Engineering, Chosun University, Gwangju 61452, Republic of Korea

Dr. Haeyoung Lee

School of Physics, Engineering and Computer Science, University of Hertfordshire, Hatfield AL10 9AB, UK

---

### Deadline for manuscript submissions

closed (31 January 2023)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/103429](https://mdpi.com/si/103429)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## 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.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

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

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q1 (Electrical and Electronic Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).