

## Special Issue

# Advanced Wireless Sensor Networks: Applications, Challenges and Research Trends, 2nd Edition

### Message from the Guest Editors

The ability of wireless sensor networks (WSNs) to support a practically endless variety of human activities places them among the most rapidly developing domains of technology with a continuously growing range of applications. On the other hand, the utilization of WSNs is obstructed because of not only the limited resources of sensor nodes in terms of energy supply, memory, and processing, but also the inborn restrictions of wireless communications regarding power, speed, and the capacity of communication channels and their vulnerability to interferences and intrusion. Thus, numerous challenges arise on the subject of WSNs. At the same time, emerging advances in various sectors of science and technology seem to be promising to support and enhance the operation of WSNs, thus triggering corresponding research trends. This Special Issue aims to support research works related with the state of the art, standards, experimentations, implementations, applications, new research proposals, and case studies regarding WSNs. Invited papers have to be original and must not be published or be under review in any other conference or journal.

### Guest Editors

Prof. Dr. Dionisis Kandris

microSENSSES Laboratory, Department of Electrical and Electronics Engineering, University of West Attica, 12244 Athens, Greece

Dr. Eleftherios Anastasiadis

microSENSSES Laboratory, Department of Electrical and Electronics Engineering, University of West Attica, 12244 Athens, Greece

### Deadline for manuscript submissions

closed (15 May 2025)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/201323](https://mdpi.com/si/201323)

*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).