

Special Issue

Applications of IoT Technology in Intelligent Farms

Message from the Guest Editors

This Special Issue aims to showcase innovative research, methodologies, and applications that leverage IoT technologies to address challenges and explore opportunities within precision agriculture. Potential topics for submission include, but are not limited to, the following:

- IoT-enabled sensor networks for real-time environmental monitoring in agricultural contexts.
- Integration of drones and autonomous vehicles equipped with IoT devices for precision agriculture tasks.
- Data fusion and analytics from heterogeneous IoT data sources for decision support in precision agriculture practices.
- Smart irrigation systems and water management using IoT solutions.
- IoT-based applications for pest and disease monitoring and early detection in crops.
- Edge computing and AI-enabled IoT solutions for on-site data processing in precision agriculture.
- Blockchain applications to enhance traceability and transparency in agricultural supply chains.
- Energy-efficient IoT devices and communication protocols for agricultural monitoring systems.
- Scalability, security, and privacy considerations in IoT deployments for precision agriculture.

Guest Editors

Prof. Dr. Carlos Serôdio

Department of Engineering, University of Trás-os-Montes e Alto Douro,
5000-801 Vila Real, Portugal

Dr. Emanuel Peres

Department of Engineering, School of Sciences and Technology,
University of Trás-os-Montes e Alto Douro, 5000-801 Vila Real,
Portugal

Deadline for manuscript submissions

closed (15 October 2024)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/183593

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).