

Special Issue

IoT Assisted Unmanned Aerial Vehicle for the Cellular Networks

Message from the Guest Editors

Due to their wider service coverage over fixed sensor nodes, emerging unmanned aerial vehicles (UAVs) have been extensively utilized for sensing applications. UAV communications include a variety of distinct features compared to terrestrial cellular networks, such as extremely dynamic network topologies and sparsely coupled communication channels, also having practical limitations, including the battery life, no-fly zones, and sensor requirements. As a consequence, ultra-reliable and real-time sensing applications require novel communication and signal processing approaches. Topics of interest relating to the Internet of UAVs include, but are not limited to:

- Protocols and network architecture;
- Techniques for canceling and coordinating interference;
- Techniques for cooperating and relaying;
- Artificial intelligence-aided communications for the Internet of UAVs;
- Internet of UAVs helped by a wireless power transfer;
- Radio resource management;
- Quality-of-service-aware trajectory optimization;
- UAV communications;
- Cellular networks;
- Signal processing approaches.

Guest Editors

Dr. Celestine Iwendi

Dr. M. Poongodi

Dr. Senthilkumar Mohan

Dr. Mohit Mittal

Deadline for manuscript submissions

closed (31 October 2022)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/104022

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), CAPus /
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).