

Special Issue

UAV Communications

Message from the Guest Editor

With the recent development in multiple/swarm unmanned aerial vehicles (UAV) and beyond-line-of-sight (BLOS) UAV systems, the communication between UAVs and ground control stations is of critical importance. The currently available communication modules are restricted by the short communication range, low bandwidth, high delay, and the number of supported nodes. At the same time, the recent progress in wireless ad hoc networks, mmWave communications, 5G networks, and data-driven design methods provides new insight into UAV communications. The new communication methods may also lead to more types of UAV applications. This Special Issue aims to provide a collection of state-of-the-art UAV communication and networking methods, including, but not limited to, the following keywords:

- multiple-UAV communications;
- adaptive communication network;
- wireless ad hoc networks;
- 5G-supported UAV communications;
- UAV-to-X communications;
- communication for robot swarm;
- data-driven design method;
- high-definition video transmission;
- routing and scheduling;
- antenna design.

Guest Editor

Dr. Boyang Li

Department of Aeronautical and Aviation Engineering, The Hong Kong Polytechnic University, Hong Kong, China

Deadline for manuscript submissions

closed (15 September 2023)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/158182

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 guestedited 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 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).