



Advanced Unmanned Aerial Vehicle (UAV) Wireless Communication and Networking Technologies

Guest Editors:

Dr. Zhuangzhuang Cui

WaveCoRE, Department of
Electrical Engineering, KU
Leuven, 3000 Leuven, Belgium

Dr. Konstantinos Maliatsos

Department of Information and
Communication Systems
Engineering, University of the
Aegean, 83100 Samos, Greece

Message from the Guest Editors

This Special Issue aims to feature original research and review articles discussing communication theories, radio channels, diverse functionalities enabled by UAVs, real-world applications, and implementations relevant to UAV-based wireless communications and networks. Through this Special Issue, our goal is to collect manuscripts describing the most recent advances and technical findings addressing problems encountered in both theoretical and practical applications for UAV communication and networking. Topics of interest include, but are not limited to, the following:

- The channel characterization, modeling, and estimation for UAV communications
- The performance analysis and optimization of UAV communications
- UAV-assisted integrated sensing and communications;
- Smart antenna systems (including reconfigurable intelligent surfaces for UAVs);
- UAV-enabled non-terrestrial network architecture;
- UAV-enabled air-to-ground communications;
- The positioning, navigation, and timing (PNT) of UAV networks;
- The real-world implementation of UAV communications;
- The trends and future directions of UAVs in wireless networks.

Deadline for manuscript
submissions:

15 November 2024





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

Contact Us

Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)