

## Special Issue

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

### 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.

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### Guest Editors

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### Deadline for manuscript submissions

15 December 2025



## Electronics

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## 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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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