

## Special Issue

# Innovations in Radio Frequency Technologies, Wireless Communication, and Signal Processing

### Message from the Guest Editors

Radio frequency (RF) is a common resource used in wireless communication and radar. In the past, wireless communication and radar were considered to be conflicting due to the interference between them; however, with the development of RF technologies, people have found that wireless communication and radar can co-exist harmoniously. For example, positioning the receiver can help the transmitter direct the communication signal more accurately toward the mobile receiver via beamforming. Conversely, distributed radar systems have a higher resolution by communicating the sensing data. In addition, dual-function radar-communication systems have also emerged. Therefore, wireless communication and radar can benefit from each other, which becomes a significant trend for future wireless communication and radar systems. Topics of interest include (but are not limited to) the following:

- 6G;
- Radar signal processing;
- Integrated sensing and communication;
- Semantic communication;
- Reconfigurable intelligent surface;
- Machine learning;
- Resource allocation and management;
- Information theory and Security;

### Guest Editors

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### Deadline for manuscript submissions

15 December 2025



## Electronics

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*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.

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