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Integrated Sensing and Communication

Guest Editor:

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Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editor

The ultimate goal of ISAC is to integrate and unify communication and radio sensing operations toward a mutually beneficial relationship. The benefits of ISAC can be divided into two categories: 1) integration gain to use spectrum resources efficiently, and 2) coordination gain to balance the mutual functions. It is expected that ISAC will have broad prospective applications as the foundation of future 6G wireless networks. This Special Issue aims to attract novel and solid contributions to ISAC. Contributions are solicited on, but not necessarily limited to, the following topics:

- Fundamental limits and performance analysis of ISAC;
- Advanced waveform, channel coding, and modulation designs for ISAC;
- Novel multiple access designs for ISAC;
- Machine learning aided ISAC;
- MIMO/Massive-MIMO-assisted ISAC;
- ISAC for emerging physical-layer technologies;
- Implementation of ISAC in 6G applications, e.g., SAGINs, VR, AR.

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Message from the Editor-in-Chief

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