

## Special Issue

# Integrated Sensing and Communications (ISAC): Opportunities and Challenges

### Message from the Guest Editor

Integrated sensing and communication (ISAC) is one of the key features of the coming sixth-generation cellular system (6G). The ultimate goal of ISAC is to facilitate wireless sensing and communications via uniform infrastructure and signals. Despite the existing related literature, there are still issues open for discussion. The topics that will be covered in this issue include, but are not limited to, the following:

- Fundamental limits and performance analysis of ISAC;
- Advanced waveform, channel coding, and modulation designs for ISAC;
- ISAC-related emerging physical-layer technologies;
- Novel multiple-access designs for ISAC;
- Machine learning for ISAC;
- Channel modeling for ISAC;
- Resource allocation for ISAC;
- Demonstration of ISAC in motion recognition, trajectory tracking, environment sensing, etc.;
- ISAC theory and implementation for a low-attitude economy.

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### Guest Editor

Dr. Rui Wang

Department of Electronic and Electrical Engineering, Southern University of Science and Technology, Shenzhen, China

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### Deadline for manuscript submissions

closed (15 February 2026)



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di  
Bari, Via Orabona 4, 70126 Bari, Italy

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