

Special Issue

Integrated Sensing and Communications for 6G

Message from the Guest Editors

The primary aim of this Special Issue is to explore new theories and technologies in ISAC (integrated sensing and communications), including the modelling of new ISAC channel characteristics, the performance analysis of ISAC, ISAC system optimization methods, as well as new ISAC frameworks and applications. Topics of interest include, but are not limited to:

- ISAC channel modelling and measurement;
- Fundamental limits and performance analysis of ISAC;
- ISAC-oriented waveform and sequence design;
- ISAC transceiver design;
- Millimetre-wave/terahertz technology for ISAC;
- ISAC design for vehicular networks and low-altitude networks;
- Applications of ISAC in automation systems, smart cities, and the Internet of Things;
- Multi-domain resource allocation optimization for ISAC systems;
- Experimental demonstrations and prototypes of ISAC;
- Research on ISAC standardization for 3GPP R19;
- Integrated sensing, communication, and computing;
- Artificial intelligence for ISAC;
- ISAC-enabled digital twins for 6G;
- Security and privacy for ISAC;
- Innovative services and applications enabled by ISAC;
- Performance evaluation for ISAC in 6G.

Guest Editors

Dr. Yuxiang Zhang

Dr. Yifeng Xiong

Prof. Dr. Jianhua Zhang

Dr. Li Yu

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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