

Special Issue

Satellite Networks for Communication, Positioning, Navigation and Timing

Message from the Guest Editors

This Special Issue addresses the challenges of system analysis and design of advanced satellite networks for communication, positioning, navigation and timing, providing a timely and long-lasting resource base for this important technological segment. Suitable topics for this Special Issue include, but are not limited to, the following:

- Integration of satellite, air and ground communication systems.
- Multi-layer PNT.
- Security and reliability aspects.
- AI-empowered SAGIN.
- LEO mega constellation satellites for PNT and communication services.
- Multi-satellite direct to device and direct to cell technologies.
- Technologies for satellite access networks.
- Standardization activities.
- Satellite IoT and its integration with ground systems.
- Applications such as in emergency situations, maritime systems, smart cities, and smart farming.
- Tensor-based techniques for integrated space, air and ground networks.
- Inter-satellite links.
- Optical technologies.
- Physical layer techniques.
- On-board processing.
- Antenna technologies.
- Resource allocation.
- Software-defined technologies.
- Lunar and deep-space applications.
- Quantum techniques.
- Computer simulation techniques.

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About the Journal

Message from the Editor-in-Chief

Network provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

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