

Special Issue

Advancements in Space-Air-Ground Integrated Networks

Message from the Guest Editors

This Special Issue aims to foster collaboration across satellite, aerial, and terrestrial communications communities to develop seamless space-air-ground integrated networks (SAGIN) for future global connectivity. Topics of interest include, but are not limited to, the following:

- SAGIN architecture & protocol standardization
- Cross-layer resource allocation in heterogeneous environments
- Cross-segment mobility management (space-air-ground)
- Energy efficiency & sustainable network operation
- AI/ML for autonomous network orchestration
- Security, privacy & resilience in multi-layer architectures
- Spectrum management & interference mitigation
- Performance modeling & optimization
- Experimental testbeds & validation
- SAGIN-enabled applications (emergency comms, smart transport)
- Delay-tolerant networking for satellite-terrestrial comms
- Edge computing across network tiers
- Beam management & adaptive antenna technologies
- Network slicing/virtualization for resource optimization
- Integration with terrestrial 5G/6G
- Inter-segment coordination & synchronization
- SDN & virtualization for SAGIN
- Quantum communications & post-quantum security
- Economic models for multi-operator SAGIN deployment

Guest Editors

Dr. Jiahui Li

Dr. Feng Wang

Dr. Hongyang Pan

Dr. Lingling Liu

Deadline for manuscript submissions

31 July 2026



Network

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 6.5



mdpi.com/si/261134

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

[mdpi.com/journal/
network](https://mdpi.com/journal/network)





Network

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 6.5



[mdpi.com/journal/
network](https://mdpi.com/journal/network)



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.

Editor-in-Chief

Prof. Dr. Alexey Vinel

School of Information Technology, Halmstad University, 301 18
Halmstad, Sweden

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) /
CiteScore - Q1 (Engineering (miscellaneous))