



AI-Enabled Signal Processing for Space–Air–Ground Integrated Networks

Guest Editor:

Dr. Xin Liu

School of Information and
Communication Engineering,
Dalian University of Technology,
Dalian 116024, China

Deadline for manuscript
submissions:

closed (15 October 2024)

Message from the Guest Editor

This Special Issue aims to explore the profound intersection of AI and signal processing within Space–Air–Ground Integrated Networks (SAGINs), with a primary focus on enhancing network performance and overcoming the inherent challenges posed by the high dynamics of aircraft and satellites.

Topics of interest include but are not limited to the following:

- Adaptive signal processing techniques for dynamic environments;
- Dynamic detection of aircraft and satellites in SAGINs;
- Resource allocation for SAGINs using AI algorithms;
- Machine learning for SAGIN optimization;
- Security and privacy enhancement in SAGINs;
- Adaptive beamforming and MIMO techniques for SAGINs;
- Edge computing in SAGINs;
- Adaptive routing algorithms for SAGINs.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Konstantinos Kontis

School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.

Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Aerospace*) / CiteScore - Q2 (*Aerospace Engineering*)

Contact Us

Aerospace Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/aerospace
aerospace@mdpi.com
[X@Aerospace_MDPI](#)