

## Special Issue

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

### 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.

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### Guest Editor

Dr. Xin Liu

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### Deadline for manuscript submissions

closed (30 April 2025)



## Aerospace

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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