Background

Metasurfaces are two- and three-dimensional periodic structures that can deliver unique features within all sorts of engineering domains. Within electromagnetics for space (be it radio frequency, microwave, millimeter-wave, terahertz, or optics), metasurfaces are popularly used

to manipulate electromagnetic waves using passive or active artificially created sub-wavelength patterned structures. Such innovative surfaces are being adapted in the literature for a number of RF and optical applications in space such as remote sensing, satellite communications, high-resolution imaging, beam-steering, and radar-cross section reduction.

Aim and Scope of the Themed Issue

This special issue aims to curate a collection highlighting the global advances in the development of electromagnetic metasurfaces for applications in space systems. It will focus on the exciting developments, ongoing trends and latest achievements in envisioning, simulating, fabricating, and measuring new metasurfaces for microwave, millimeter-wave, terahertz, and optical frequencies.

We invite submissions from all domains of applied and theoretical research on this subject which includes (but is not limited to):

- Fundamental theory and modeling of metasurfaces
- Active and tunable metasurfaces
- Reconfigurable intelligent surfaces
- Holographic metasurfaces
- Metasurface-based reflectors and lenses
- Metasurfaces for satellite communications networks
- Metasurfaces for remote sensing and imaging
- Metasurfaces for wavefront manipulation
- Metasurfaces for cloaking and invisibility
- Metasurfaces for optical and photonics applications
- Novel metasurface-based devices
- New emerging trends in metasurfaces

Submissions

All relevant papers will be carefully considered, vetted by a distinguished team of international experts, and published in accordance to the **Journal's standard policies**. Full research papers and comprehensive review articles can be submitted online via the journal's submission and peer review site**.**
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For accepted articles submitted in 2024, the APC is 500€ (paid after acceptation). The journal does not have any submission fee.

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Submission deadline – February 1st 2025

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