



## Exploring the Potential of 5G and Millimeter-Wave Array Antennas

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Deadline for manuscript  
submissions:

**closed (10 March 2023)**

### Message from the Guest Editors

Dear Colleagues,

Satellite communication systems (SatComS) are evolving with the introduction of satellite internet applications, leveraging mmWave, multi-polarization, and steerable antennas. Satellite Internet connectivity provides enabling technology for the 5th generation of communication (5G) by providing the means to extend broadband connectivity to rural and underserved areas. One of the key components of satellite internet is the mmWave antenna that can provide wide-angle scanning. This Special Issue aims to focus on the latest designs and development of mmWave antennas for satellite internet for micromachines.

Topics of interest:

- Electronically steerable antennas
- Mechanically steerable antennas
- Ku, Ka, Q, V, and W band antennas
- Multibeam antennas
- mmWave active phased array antennas
- Multireflector antennas
- Reflectarray steerable antennas
- mmWave antenna beamforming
- Filtering antennas
- Over-the-air (OTA) antenna measurement
- Reconfigurable phased array antennas
- Multipolarization phased array antennas
- Antennas for LEO, GEO, and HAPS connectivity
- Metasurface steerable antennas





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## Editor-in-Chief

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