# **Special Issue**

# Advancing Global Connectivity: Efficient Transmission and Intelligent Sensing in Satellite Communications

# Message from the Guest Editors

As global communication demands surge, existing satellite communication systems face challenges including signal attenuation, resource limitations, and inadequate data processing capabilities. The incorporation of intelligent sensing technology has significantly improved the adaptability and operational efficiency of satellite systems, offering robust data support for signal processing, and thereby enhancing communication quality and reliability. Additionally, emerging wireless communication technologies such as efficient antenna designs and advanced signal processing strategies are now at the forefront of research interest. These technologies demonstrate immense potential for achieving global seamless coverage and enhancing service quality. This Special Issue aims to collect state-of-the-art research on enhancing satellite communication efficiency and intelligent sensing, including but not limited to intelligent sensing applications, efficient antenna technology, and advanced signal processing technology.

## **Guest Editors**

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## Deadline for manuscript submissions

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#### Editor-in-Chief

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