# Special Issue

# Advances in Satellite Gravity Field Retrieval: From GRACE/GRACE-FO to Future Missions

## Message from the Guest Editors

The primary aim of further scientific research on satellite gravity field retrieval is to quantify global mass transport within the Earth's system with higher precision as well as better spatial and temporal resolution. In particular, this research seeks to: - Ensure a continuous record of Earth's mass changes to accurately track long-term climate trends; - Develop new hardware (like Laser Ranging Interferometry) and processing algorithms (de-striping) to separate the "true" gravity signal from noise; - Improve the spatial resolution to move from monitoring large regions (like the Amazon) to tracking groundwater depletion in individual river or agricultural basins; - Progress from monthly solutions to near-real-time data delivery, which would boost the use of the gravity field for early warning systems for extreme climate events (e.g., floods, droughts), and large-scale tectonic activities. The topics may cover any research related to recent developments in gravity field retrieval techniques from the GRACE mission and the GRACE-FO mission toward next-generation satellite gravimetry missions and their diverse Earth science applications.

## Guest Editors


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## Deadline for manuscript submissions

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*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

### Editors-in-Chief

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