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**IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**

**Special Issue on**  
**“Gravity Satellite Systems, Data Processing, and Applications”**

The field of geodesy has made significant progress in recent decades with the development of advanced satellite gravimetry technologies. As a result, satellite gravimetry missions such as GRACE, GRACE-FO, and GOCE have provided invaluable insights into the Earth’s gravity field. Numerous theories have been developed and successfully applied to use these valuable datasets for enhancing our understanding and knowledge about the Earth’s interior structures and processes. We believe that the observations from GRACE, GRACE-FO, and GOCE missions can be further utilized for various geophysical purposes. However, there remain numerous unresolved issues and emerging challenges that necessitate further investigation.

This special issue will aim to address these challenges while providing a platform for researchers and practitioners to share their latest findings, methodologies, and technologies related to gravity satellite systems, data processing, and innovative applications. The broad topics include (but are not limited to):

- Satellite gravimetry data processing and global gravity field solutions
- Integration of gravity data with other geophysical datasets
- Simulations of next-generation satellite gravimetry missions
- Satellite gravity applications to hydrology, glaciology, solid earth deformation, oceanography, and atmosphere □  
Other related topics

**Schedule**

01 Dec 2023 Submission system opening

31 Dec 2024 Submission system closing

**Format**

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Gravity Satellite Systems, Data Processing, and Applications**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit [http://www.ieee.org/publications\\_standards/publications/authors/author\\_templates.html](http://www.ieee.org/publications_standards/publications/authors/author_templates.html) to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee \$1,250 perpaper.

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