Special Issue

New Challenges in Satellite Gravimetry for Hydrology

Message from the Guest Editors

Since the beginning of this millennium, a new generation of Low-Earth-Orbiter satellite missions, including the pioneer GRACE mission, has provided information on redistributions of mass inside the fluid envelopes of the Earth. GRACE, and its successor GRACE-FO launched in 2018, have enabled diagnostics by establishing research fields related to relevant mass balances of major watersheds, sea level, and melting ice or glaciers, as well as revealing slow groundwater droughts during the last decade. The high accuracy of the inter-satellite K-band Range system measurements coupled with information from the on-board 3-axis accelerometers provides tiny changes to the gravity field caused by water mass variations in the different compartments of the water cycle. Improvement of the space and time resolutions represents the next step for detecting localized and faster water mass transfers occurring at smaller scales. We invite contributions in satellite gravimetry presenting original approaches and analyses from global to regional scales of hydrology in response to climate evolution, as well as related topics based on the combination of different independent satellite or surface data.

Guest Editors

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Message from the Editor-in-Chief

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.

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