# **Special Issue**

## Application of Satellite Remote Sensing Technology in Earth System Monitoring

## Message from the Guest Editor

Climate change, air quality, and environmental degradation are the main societal challenges in the twenty-first century. In order to address these challenges, we need increased information on the Earth's system (the cryosphere, the ecosystems, the hydrosphere, and the solid Earth, as well as the oceans). A crucial component of Earth System Monitoring is satellite observations. Current satellite technology provides relevant information on atmospheric constituents, sea surface temperatures, soil moisture, snow cover, etc. The objective of this Special Issue is to provide an overview of the state-of-the-art applied research using satellite remote sensing technology for Earth System Monitoring. We welcome studies on the application or assimilation of satellite observations in models and research presenting the most recent advances in:

- land reanalysis,
- cloud properties,
- air temperature analyses,
- coupled land-atmosphere assimilation,
- numerical weather prediction,
- hydrological forecast,
- ocean dynamics,
- carbon cycle monitoring,
- etc.

## Guest Editor

Dr. Stephan Havemann Met Office, Foundation and Weather Science, Exeter EX1 3PB, UK

## Deadline for manuscript submissions

closed (30 January 2025)



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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 peerreview 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.

## Editor-in-Chief

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