# Special Issue

# Remote Sensing of Greenhouse Gas Emissions

## Message from the Guest Editors

The remote sensing observations of atmospheric greenhouse gases (GHGs) and Earth's surface enable the quantification and evaluation of GHG fluxes, originating from both anthropogenic and natural processes, and inform atmospheric chemistry. The observations of vegetation activities and hydrological and cryospheric status on land, such as vegetation type, greenness, leaf area, precipitation, inundation, soil moisture, and snow and ice, provide valuable information about ecosystem states. The assimilation of Earth Observation (EO) data into models opens possibilities for novel modelling approaches and avenues for reducing uncertainties in GHG flux estimates.

This Special Issue invites contributions that present remote sensing applications providing means for GHG flux quantifications, including but not limited to GHG sources and sinks inferred from satellites' GHG and EO data, utilization of those data in process-based land ecosystems modelling and atmospheric inverse modelling, variations in the atmospheric abundance of carbon gases, and the application of multiple tracers from satellite platforms.

## Guest Editors

Dr. Aki Tsuruta

Dr. Tuula Aalto

Dr. Marko Scholze

## Deadline for manuscript submissions

closed (1 May 2023)

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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.

### Editor-in-Chief

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