# Special Issue

# Remote Sensing of Greenhouse Gases

### Message from the Guest Editor

The global carbon cycle plays a central role in the Earth system, but a consistent description remains one of the pre-eminent challenges in climate science. Studies of uncertainty in future climate projections suggest that "natural" carbon exchange processes are second only to physical climate sensitivity in importance. This Special Issue invites contributions related to past, current and future satellite missions for CO2 and CH4 with a focus on but not limited to retrieval methods, calibration and validation, related studies using aircraft or ground-based data, results from past or current satellite mission, studies using complementary data streams such as carbon monoxide or solar induced fluorescence, surface flux inversion, new satellite missions, and new instrumentation.

- Global carbon cycle
- Greenhouse gas remote sensing
- Greenhouse gas instrumentation
- Surface flux inversions
- Retrieval algorithms
- Satellite validation and calibration

### Guest Editor

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### Deadline for manuscript submissions

closed (31 August 2017)

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## Message from the Editorial Board

*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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