# Special Issue

# Terrestrial Carbon Cycle

### Message from the Guest Editors

The terrestrial carbon cycle is controlled not only by photosynthesis, but also by respiration, carbon allocation, disturbance and rates of carbon turnover. However, these processes remain difficult to measure and challenging to model. As terrestrial ecosystem carbon cycle models become increasingly sophisticated, the level of uncertainty has also increased, as more mechanisms have been incorporated into the models. Therefore, spatially explicit quantification of terrestrial carbon budget remains uncertain. In this issue, we welcome contributions that make use of legacy or modern remote sensing observations to improve the characterisation of terrestrial carbon cycle processes. We particularly welcome novel remote sensing techniques and applications, such as chlorophyll fluorescence, CO2 flux observations, and photosynthetic trait mapping and their integration into mechanistic models to better understand carbon cycle processes. Model-data integration and observational studies at leaf, plant, field, regional and global scales are also welcome.

Dr. Gregory Duveiller

### Guest Editors

Dr. Alemu Gonsamo

Dr. Holly Croft

Dr. Mirco Migliavacca

Dr. Gregory Duveiller

### Deadline for manuscript submissions

closed (30 June 2019)

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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

Dr. Prasad S. Thenkabail
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