Special Issue

Novel Methods and Approaches for the Remote Ground-Based and Orbital Observations of Carbon Cycle

Message from the Guest Editors

During the last few years, we have observed significant progress in satellite and ground-based remote sensing that makes a great contribution to the exploration of the Earth system. The carbon cycle binds together its components, ensuring migration and transformation of the primary life element—carbon. This Special Issue is expected to reflect up-to-date levels of the carbon cycle and to present novel methods and approaches for remote monitoring, including instrumentation, data validation, processing and assimilation for scientific research, and interpreting measurement results. Importantly, the scope of this Special Issue is to introduce researchers to the latest satellite databases and products which can be used to trace carbon chains in different environments around the world. We hope that this Special Issue will collect remarkable papers investigating carbon pools in the Earth's crust and water basins, the organic carbon in plants and soils, emissions of carbon-containing substances. We also invite work from researchers who use high-quality ground-based data and models to help to validate satellite measurements for carbon cycle investigations.

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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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