Special Issue

Remote Sensing for Vegetation Mapping and Its Application in Carbon Budget

Message from the Guest Editors

Deforestation typically releases carbon from the terrestrial biosphere to the atmosphere as CO2 (carbon dioxide), while recovering vegetation in abandoned agricultural or logged land removes CO2 from the atmosphere and sequesters it in vegetation biomass and soil carbon. Carbon budget estimation from vegetation dynamics receives a great deal of scientific attention. The key state variables and parameters of vegetation, i.e., the forest cover and its change, the content of chlorophyll, biomass, tree height, forest burned area, and leaf area index, have impacts on the vegetation carbon budget. Combining remote sensing and ecological modeling reveals a promising avenue in vegetation carbon budget investigation. This Special Issue seeks the most recent research on gaining the key vegetation parameters using the SAR interferometry, multispectral lidar, hyperspectral remote sensing, and unmanned aerial vehicle remote sensing incorporated into an ecological process model with a carbon budget model, to evaluate the spatio-temporal dynamics of both carbon storage and carbon budget of vegetation, assessing the influence of these vegetation parameters on vegetation carbon storage.

Guest Editors

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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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