



Remote Sensing for Vegetation Mapping and Its Application in Carbon Budget

Guest Editors:

Prof. Dr. Zhaoming Zhang

Aerospace Information Research
Institute, Chinese Academy of
Sciences, Beijing 100094, China

Dr. Tengfei Long

Aerospace Information Research
Institute, Chinese Academy of
Sciences, Beijing 100094, China

Dr. Mengmeng Wang

Department of Remote Sensing
Science, China University of
Geosciences, Wuhan 430079,
China

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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.





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Dr. Prasad S. Thenkabail

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Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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