Special Issue

Perspectives of Remote Sensing to Assess Forest Structure and Diversity

Message from the Guest Editors

Assessing forest structure and biodiversity is essential for effective conservation, land management, and climate change mitigation. Remote sensing technologies have greatly advanced our capacity to collect data on forest ecosystems, offering efficient and non-invasive methods to monitor forest health, composition, and diversity across vast and often inaccessible areas. The integration of remote sensing with cutting-edge analytical approaches, including deep learning, machine learning, and 3D radiative transfer models, has opened new possibilities for forest monitoring. These innovations enable highly accurate mapping of forest biomass, canopy structure, and vegetation types, providing deeper insights into the complexities of forest ecosystems. Understanding the variability in forest structure and biodiversity is critical for addressing global challenges such as biodiversity loss, deforestation, and climate change. This Special Issue will highlight the latest research and methodologies in remote sensing, underscoring the role of these technologies in advancing forest management, conservation strategies, and our overall understanding of forest dynamics.

Guest Editors

Dr. Jun Geng

Dr. Wen Jia

Dr. Kaijian Xu

Dr. Hailan Jiang

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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