Special Issue

Crop Growth Monitoring Using Remote Sensing: Progress, Challenges and Opportunities

Message from the Guest Editors

Accurate and timely information of crop growth condition is essential to precision farming and sustainable agricultural production. Remote sensing data acquired by different platforms (e.g., satellite, airborne, UAV and ground) have been increasingly used to capture crop growth at various spatial and temporal scales. More recently, many newly developed sensors and data acquisition technologies have been developed to further enhance the capability of remote sensing in supporting crop growth monitoring and yield prediction. Multispectral imageries with red-edge bands, hyperspectral imageries and synthetic aperture radar imageries have become commonly available, providing unprecedented data support to stimulate innovation for crop monitoring. Given the improvement of advanced sensor technologies, the early detection of crop stress and the quantitation impacts on crop yield remain challenging. This special issue calls for innovative research in using remote sensing and other cutting-edge technologies such as data fusion and artificial intelligence to tackle the issues facing the modern field crop production.

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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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