



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

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Message from the Guest Editors

Dear Colleagues,

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

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