

Special Issue

Crop Production Parameter Estimation through Remote Sensing Data

Message from the Guest Editors

Highly accurate and reliable estimation of crop production parameters, such as biomass and yield, is critical for improved crop production process management and strategic planning. Remote sensing has been studied and developed for estimating plant biomass and crop yield. This Special Issue aims to provide a comprehensive view of the development and application of crop production parameter estimation using remote sensing from satellite, airborne, manned, and unmanned aerial vehicles to ground-based systems. In recent years, machine/deep learning has been developed and applied to increase the accuracy and reliability of crop production parameter estimation using remotely sensed data. This Special Issue wishes to explore the achievements in but does not limit itself to, the following scopes of crop production parameter estimation for biomass, yield, or any other related parameters using remote sensing: (1) at the national or regional scale for crop production planning; (2) at farm or field scale for precision agriculture operations; (3) assimilation of remote sensing data into crop models and (4) developing specialized machine/deep learning schemes and algorithms.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2024)



Agronomy

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Editor-in-Chief

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