Remote Sensing Applications for Agriculture and Crop Modelling

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Deadline for manuscript submissions:
closed (31 May 2019)

Message from the Guest Editor

Dear Colleagues,

Crop models and remote sensing techniques have been combined and applied in agriculture at any spatial scale, based on the simultaneous development of both. The literature shows that new remote sensing sensors and valuable methods have been developed for the retrieval of crop and soil properties from remote sensing data for assimilating the retrieved variables into crop models. Meanwhile, remote sensing has been used in a staggering number of applications for agriculture. With this Special Issue we will compile research that specifically addresses and provides new steps in expanding the scope of remote sensing and modeling for agricultural systems: data assimilation in crop growth models, local to global monitoring activities (e.g., crop identification, estimation of acreage and production, crop health, crop damage), applications of remote sensing at the farm level (e.g., biotic and abiotic stress, quantity and quality crop characteristics). Model–data assimilation and model–data fusion contributions are welcomed, as are papers describing new management applications of remote sensing in agriculture.

Dr. Piero Toscano
Guest Editor

Special Issue

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Message from the Editor-in-Chief

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