



Hyperspectral Imaging for Precision Farming

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Deadline for manuscript
submissions:

closed (10 May 2022)

Message from the Guest Editors

To increase benefits, more detailed information on growth processes, drought stress, and diseases is highly wanted. Hyperspectral imaging can provide such additional information as subtle changes in crops are often revealed in through spectral content, giving early indications of important processes. Imaging spectroscopy technology has evolved fast, with ever smaller and lighter spectral cameras becoming available. Today, miniature imagers carried by drones allow for regularly monitoring fields and capturing imagery with information at the desired high spatial and spectral detail. Temporal flexibility allows bridging of the gap between information needs and data availability for precision farming. Combining existing sensors and technologies with crop growth models enables us to issue yield forecasts at a range of spatial scales.

This Special Issue aims to publish a collection of investigations into and developments of novel hyperspectral sensors and methods to analyze the images thereof for precision farming applications, including on time series analysis, multiresolution spatiotemporal data fusion, unmixing, inverse modeling, and data assimilation.

<https://www.mdpi.com/si/70308>





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