



Hyperspectral Imaging for Precision Farming

Guest Editors:

Dr. Stephanie Delalieux

Remote Sensing Department,
Flemish Institute for
Technological Research (VITO-
TAP), 2400 Mol, Belgium

Dr. Stefan Livens

Flemish Institute for
Technological Research, Center
for Remote Sensing and Earth
Observation Processes (VITO-
TAP), 2400 Mol, Belgium

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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.

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Dr., Flagstaff, AZ 86001, USA

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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