



Remote Sensing Applications for Agriculture and Crop Modelling

Guest Editor:

Dr. Piero Toscano

Institute of BioEconomy (IBE),
National Research Council (CNR),
Via Caproni 8, 50145 Florence,
Italy

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



mdpi.com/si/17153



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Graham Centre for Agricultural
Innovation, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q1 (*Agronomy and Crop Science*)

Contact Us

Agronomy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi