Special Issue

Advances in Field Spectroscopy in Agriculture

Message from the Guest Editors

Field spectroscopy is one of the most suitable technologies for assessing plants and soils using a non-destructive approach. It can be defined as the measurement of the spectral properties over a continuous region of the electromagnetic spectrum. Field spectroscopy is safe, rapid, cost-effective, easy-to-use, and sensitive, and allows us to monitor changes in the characteristics of crops throughout the growth season until harvest. This Special Issue aims to present a collection of original research articles and reviews related to recent advances in field spectroscopy in agriculture. Potential topics include, but are not limited to:

- assessment of crop quality and yield;
- classification of crops and soils;
- early detection of crop diseases;
- physical and chemical characteristics of crops and soils;
- water monitoring in crops and soils;
- estimation of plant photosynthesis and respiration parameters using empirical models;
- testing and development of advanced radiative transfer models;
- fruit yield and quality assessments; and
- fruit ripeness and marketability assessments.

Guest Editors

Prof. Dr. José Ramón Rodríguez-Pérez
University of León, Avenida de Astorga, sn, 24401 Ponferrada (León), Spain

Prof. Dr. Shawn C. Kefauver
Integrative Crop Ecophysiology Group, Department B.E.E.C.A. Plant Physiology Section, Faculty of Biology, University of Barcelona, Av Diagonal 643, 08028 Barcelona, Spain

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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