



Optical Sensing for Agricultural Applications

Guest Editors:

Dr. Aristotelis C. Tagarakis

Institute for Bio-Economy and Agri-Technology (iBO), Centre for Research & Technology Hellas (CERTH), 38333 Volos, Greece

a.tagarakis@certh.gr

Prof. Dr. Dionysios Bochtis

Institute for Bio-Economy and Agri-Technology (iBO), Centre for Research and Technology-Hellas (CERTH), 38333 Volos, Greece

d.bochtis@certh.gr

Dr. Dimitrios Kateris

Institute for Bio-Economy and Agri-Technology (iBO), Centre for Research and Technology-Hellas (CERTH), 38333 Volos, Greece

d.kateris@certh.gr

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Message from the Guest Editors

Dear Colleagues,

In recent decades, the management of agricultural fields has advanced significantly. With the development and utilization of sensing systems for agricultural operations, farmers and farm managers are now able to take informed decisions based on real data from the field. In this respect, optical sensing has become a widely accepted solution for monitoring field, crop and soil status. Thus, advanced field management may be supported by incorporating information from various optical sensors: consumer-grade RGB-D (red-green blue-depth) cameras, and LiDAR and multispectral sensors, acquired by various remote and proximal platforms (satellites, planes, unmanned aerial vehicles (UAVs), unmanned ground vehicles (UGVs), etc.), or sensing systems installed on conventional equipment such as tractors and other human-operated vehicles. The functions of these optical sensors in agriculture include yield prediction, soil sensing, nutrient and pesticide applications, and many more.





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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Contact Us

Remote Sensing
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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