



Remote Sensing and Decision Support for Precision Orchard Production

Guest Editors:

Prof. Dr. Guijun Yang

Prof. Dr. Zhenhong Li

Dr. James Taylor

Prof. Dr. Raffaele Casa

Dr. Hao Yang

Deadline for manuscript
submissions:

closed (20 December 2021)

Message from the Guest Editors

Smart orchard is a new generation of orchard production system relying on smart sensing, smart decision, and smart intervention, targeted to optimize agronomic inputs and resilience, and improve yield/quality and production efficiency. The evolution of remote sensing techniques has opened new perspectives for supporting orchard production and management. The enhanced spectral, spatial, and temporal resolution of various sensors (i.e., multi/hyperspectral, LiDAR, thermal, and fluorescence,) on board platforms (spaceborne, airborne, UAVs, vehicle, robots, and backpack) offers unprecedented possibilities for efficient orchard monitoring at different application scales and purposes. The link of the remote sensing technology and orchard agronomic model is expected to support intelligent decisions regarding fertilizer, water, and chemical inputs, optimizing and predicting fruit yield and quality. To accelerate the transition from traditional orchard production to smart orchard, this Special Issue aims at providing the state-of-the-art of remote sensing techniques for orchard management, with a special focus on operational applications targeted to the needs of the final users.





an Open Access Journal by MDPI

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

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

Contact Us

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

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

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)