



earth



an Open Access Journal by MDPI

## Monitoring Water, Vegetation, and Soil Condition in Farmland Ecosystems: Integration of Multi-Source Remote Sensing

Guest Editors:

**Prof. Dr. Ningbo Cui**

**Dr. Taifeng Dong**

**Dr. Cong Wang**

**Prof. Dr. Yulei Xie**

Deadline for manuscript  
submissions:  
**closed (20 March 2024)**

### Message from the Guest Editors

This Special Issue will focus on the advancement of multi-source remote sensing in monitoring water, vegetation, and soil health in farmland ecosystems. We welcome novel research, review, and opinion pieces covering all related topics, including but not limited to the following topics:

- Retrieving soil moisture and nutrients in farmlands;
- Cultivation structure extraction and area estimation;
- Crop traits (LAI, biomass and leaf chlorophyll content) inversion;
- Assimilation of multi-source RS into crop growth models;
- Optimization of irrigation system and evaluation of water productivity;
- Construction of regional intelligent irrigation decision-making systems.



[mdpi.com/si/163762](https://mdpi.com/si/163762)

Special Issue