# Special Issue

# Advances in the Remote Sensing of Crop Phenology and Production Monitoring Under Environmental Constraints

**Message from the Guest Editors**

The spatially explicit and accurate monitoring of crop phenology and production is essential for enhancing our understanding of agricultural practices and their associated ecological services. Significant efforts have been made to improve monitoring accuracy, though these efforts are inevitably complicated by environmental constraints, including extreme temperatures, drought, nutrient deficiencies, and diseases. We are pleased to invite you to contribute to this Special Issue related to phenology and production monitoring using remote sensing methods across different spatial scales and various crops, as well as under environmental constraints. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Detecting and monitoring crop phenology;
- Estimating crop yield and production;
- Developing algorithms for improving the accuracy of crop phenology and production monitoring;
- Analyzing environmental constraints on crop phenology and production monitoring;
- Applying machine learning and deep learning for crop phenology, production, and environmental constraints analysis.

**Guest Editors**

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Dr. Jianxiu Shen

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**Deadline for manuscript submissions**

31 March 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/235354

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### 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.

### Editor-in-Chief

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