# Special Issue

## High-Throughput Phenotyping of Crop Traits: Progresses, Opportunities, and Challenges

### Message from the Guest Editors

This Special Issue aims at showcasing the latest developments in HTP platforms (HTPPs), sensing technologies, and methodological advances to measure crop phenotypic traits from a proximal and remote sensing perspective. We also welcome review papers to synthesize the recent progresses of high-throughput phenotyping and to discuss those grand challenges remaining unresolved. In this Special Issue, potential topics include but are not limited to:

- High-throughput phenotyping platforms (HTPPs), such as unmanned aerial vehicles, robots, and gantries that have an important component in close-range/remote sensing;
- Innovative use of new sensors to collect phenotypic data (e.g., LiDAR, solar-induced florescence, thermal sensor);
- State-of-the-art techniques to process phenotypic measurements (e.g., deep learning);
- Data fusion (e.g., fusion of multisource data, such as structural, optical, physiological, and thermal data) for understanding plant growth;
- Advances in hyperspectral remote sensing for phenotyping;
- Phenotyping of plant stress (e.g., disease and drought stress).

### Guest Editors

Dr. Peng Fu

Dr. Katherine Meacham-Hensold

Dr. Jin Wu

Prof. Dr. Carl Bernacchi

### Deadline for manuscript submissions

closed (30 June 2021)

**Remote Sensing**

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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

Dr. Prasad S. Thenkabail
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