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

Guest Editors:

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Deadline for manuscript submissions:
closed (30 June 2021)

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).

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Message from the Editorial Board

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.

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