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UAS Technology and Applications in Precision Agriculture

Guest Editors:

Dr. Jinha Jung
Lyles School of Civil Engineering, Purdue University, 550 Stadium Mall Dr, West Lafayette, IN 47907, USA

Dr. Murilo M. Maeda
Texas A&M AgriLife Extension, Lubbock, TX 79403, USA

Dr. Mahendra Bhandari
Texas A&M AgriLife Research, Corpus Christi, TX 78406, USA

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Message from the Guest Editors

In terms of data acquisition accuracy, cost-effectiveness, flexibility and high productivity, integrated UAV-based remote sensing systems provide the foundation for the development of precision agriculture applications. Although UAV-based remote sensing systems have been utilized in small plot trials, the full utilization of these systems throughout the whole life cycle of crops to monitor and quantify field-level variability has been very limited until now. UAV technologies present a unique opportunity to improve the overall farming efficiency by allowing for the high temporal and spatial resolution monitoring of crops at the field level.

The Special Issue aims to connect current knowledge about UAV-based remote sensing technologies and methodologies. Topics may cover UAV-based HTP (high-throughput phenotyping) system development in general, as well as its integration with other state-of-the-art innovations, including, but not limited to, digital twins, in-season crop management decisions, machine learning/artificial intelligence, data fusion with other remote sensing modalities, and decision support systems in precision agriculture.

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Editors-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

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

Message from the Editorial Board

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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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