Application of Artificial Intelligence in Agriculture: Cultivation, Management and Harvest

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Message from the Guest Editors

Studies using artificial intelligence and spatial datasets for crop monitoring have become important and attracted interest among scientists worldwide. Recent advances and applications of artificial intelligence algorithms make it possible to process a large number of spatiotemporal datasets for crop growth and damage assessment, crop health analysis, crop yield and water requirements, and crop yield forecasting, which is extremely important for agronomists to devise successful strategies for a country to address food security issues. The topics include but are not limited to the following aspects:

- Applications of artificial intelligence and Earth observation data (e.g., crop phenology monitoring, crop type mapping, yield forecasting, crop water requirement);
- Multisensor image fusion for improved crop monitoring and management;
- Data assimilation and crop growth models for crop yield modeling and forecasting;
- Spatial modeling of spatial changes in farming practices, and driving forces of consequences of land surface dynamics.

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Special Issue

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Message from the Editor-in-Chief

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