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Precision Remote Sensing and Information Detection in Agriculture

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Deadline for manuscript submissions:
closed (10 May 2024)

Message from the Guest Editors

Agriculture is facing daunting challenges imposed by the increasing global population, natural resource scarcity, and climate change. Yet, there are unprecedented opportunities for the future, including the remarkable emergence of innovations in technological advances, such as precision remote sensing, which will help optimize agricultural management and thus improve agricultural sustainability.

Pivotal technologies for data collection, including airborne sensing, Unmanned Aerial Vehicles (UAV), real-time kinematics (RTK), and global positioning systems (GPS), are being used to monitor yields, weeds, chemical (herbicides, insecticides, and fertilizers) use etc. The collected data can influence farmer decisions with respect to seeding, fertilizer and chemical applications, irrigation scheduling, and other farm input use, which could lead to economic savings on farms and reduce the impact on the environment.

This Special Issue aims to cover a wide range of data collection approaches, such as UAVs (also known as drones), to monitor croplands and thus optimize management practices so that outcomes are robust and resource-efficient.

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Message from the Editor-in-Chief

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