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Near Real-Time (NRT) Agriculture Monitoring

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Message from the Guest Editors

Near-real-time (NRT) agriculture monitoring can provide immediate crop information, which is vital for agriculture management and decision support. Capturing signal of crop stress at early stages will help the farmers and decision makers to mitigate agricultural loss. An increasing availability of data acquired from satellites, unmanned aerial vehicles, and proximal sensors in the farmland has given us great opportunities to accomplish agricultural monitoring in near real-time.

Recent advancements in remotely sensed data collection enable and inspire us to develop new algorithms for agricultural applications using data mining and machine learning techniques. This Special Issue focuses on novel methods and applications for agricultural monitoring in near real-time (within the season) using remote sensing. The contributions may include (1) crop type early mapping; (2) crop growing condition and crop phenology detection; (3) crop stress (water, nutrient, etc.) identification; (4) crop yield prediction; (5) soil water, fertility monitoring; and (6) data processing methods to achieve timely and high-quality monitoring within the season.

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Message from the Editorial Board

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