Innovative Imaging Sensors Combined with Artificial Intelligence Approaches to Support Precision Agriculture

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Message from the Guest Editors

In recent years, technology has played an important role in agronomic management. The use of advanced tools that incorporate a wide range of sensors to detect and monitor crop status allows rapid, non-invasive and low-cost real-time analyses.

Generally, image processing and computer vision applications allow us to reduce equipment costs and to increase interest in non-destructive agriculture assessment methods. Precision agriculture represents an integrated, information- and production-based farming system improving long-term, site-specific and whole farm production efficiency and profitability. This could limit the undesirable effects of an excess/lack of chemical loading to the environment or productivity loss due to unsuitable input application. The advantage is that precision agriculture will provide a wide range of economic and environmental benefits with a high and accurate precision level.

In this context, this Special Issue will concern topics about the use of applied sensors (e.g., opto-electronics, spectrophotometry, thermography, RGB cameras, drones) in combination with artificial intelligence for proximal and remote sensing analysis.

Special Issue

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Message from the Editor-in-Chief

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