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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.



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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