



## Data-Driven Approaches and State-of-the-Art Machine Learning Techniques in Support of the Remote Sensing and Agriculture

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### Message from the Guest Editors

High-quality sensing systems and high-fidelity datasets play a pivotal role in agricultural scenarios. High-resolution, and multi- or hyperspectral vegetation images promise to help to identify and distinguish early-stage vital crop diseases through state-of-the-art data-driven machine learning approaches. This, in turn, leads to preventing wide spreading at an early stage and ultimately helps to increase total yield estimation.

Within this context, remote sensing since the early stage of agriculture has been considered one of the major sources of data for subsequent analysis, such as predictive and prescriptive analytics and plant phenotyping. Furthermore, the recent glory of deep learning and artificial intelligence have been built upon large volumes of datasets in diverse environments such as on-/off-farm or laboratory settings. In this sense, remote data capture systems in agriculture and horticulture serve as an important supplier by feeding essential data in a timely manner.

We are welcoming researches on the current advances and applications of remote data capture systems in agricultural scenarios.





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