Special Issue

Imaging Technology for Detecting Crops and Agricultural Products

Message from the Guest Editors

Imaging applications for several purposes in agriculture are rapidly improving, at different scales, and have the potential to be key elements of sustainable agricultural intensification systems. In particular, satellite and drone imagery provides solutions for monitoring field crops and their within-field variability regarding crop health status, weed detection and yield monitoring. Imaging applications are usually coupled with machine-learning algorithms as a means of developing classification and regression models. Deep learning is a relatively new machine-learning technique that has gained importance in different fields in the agri-food chain, especially with the significant advancement of imaging-acquisition hardware, as well as the computational power available from personal computers with high-capability GPUs, as well as high-performance cloud-based computational servers. The main goal of this Special Issue is to exchange knowledge, ideas, analytical techniques, applications and experiments that use imagery solutions in the field of agricultural applications.

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