Unmanned Aerial Vehicle and Remote Sensing Systems Usage in Precision Agriculture

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Message from the Guest Editors

To improve crop productivity while reducing environmental losses, precision agriculture, utilizing remote sensing, automated solutions, and data analytics, are applied to assess, manage, and evaluate spatial-temporal variability in agricultural production. With the emerging advances in sensors, computational capacity, robotics, and artificial intelligence, precision agricultural activities have been promoted to an unprecedented level. In particular, Unmanned Aerial Vehicles and Remote Sensing technologies have drawn attention due to their potential for non-destructive operations and reduced human interactions.

This Special Issue expects research studies that cover the development of technological solutions for precision agriculture, with a particular interest in the utilization of Unmanned Aerial Vehicles and Remote Sensing Systems. The application scope includes all aspects in Precision Agriculture, including but not limited to irrigation, fertilization, pest management, early disease detection, pre- and post-harvest processing, as well as yield and quality monitoring.

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