

Special Issue

Intelligent Detection of Crop Growth Phenotyping Toward Sustainability: Sensors, IoT Technologies and Signal Processing

Message from the Guest Editors

Precise crop growth phenotyping using technology could help sustainably increase agricultural production and the quality of food. Technological advances facilitate different levels of phenotyping due to biotic and abiotic factors, ranging from cells, organs, tissues, whole plants and crop fields; therefore, an wide range of sensors and signal processing methods have been developed for this purpose, but more studies that consider the social context and specific environmental problems are needed to have a greater impact across more society sectors and the environment. In 2050, the world will need to have a higher quality and quantity of food, and the interrelation between crops, technology, and sustainability is an indispensable line of knowledge in this regard. Concerning this Special Issue, we aim to help increase the benefits to society and the environment of the intelligent detection of crop growth phenotyping. This Special Issue covers, but is not limited to, sensors, IoT technologies, and signal processing methods proposed or applied for intelligent crop growth phenotyping to increase the quality and quantity of food, with a focus on sustainability.

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