Saturday, 19 December de 2020

Special Issue "3D Modelling and Mapping for Precision Agriculture"

Remote Sensing (MDPI) has launched a Special Issue in 3D Modelling and Mapping for Precision Agriculture (https://www.mdpi.com/journal/remotesensing/special_issues/Mapping_for_Precision_Agriculture#editors [https://www.mdpi.com/journal/remotesensing/special_issues/Mapping_for_Precision_Agriculture#editors]). The issue is Guest Edited by Dr. Lorenzo Comba (University of Turin), **Dr. Jordi Llorens (Universitat de Lleida, researcher of the PAgFRUIT Project)** and Dr. Alessandro Biglia (Università degli Studi di Torino).

The goal of this Special Issue is to present an up-to-date overview of the recent achievements in the field of 3D modelling and mapping in agriculture, as well as to identify the obstacles still ahead. In this context, the contribution of 3D models of crops to the improvements of PA practices is rapidly growing. Indeed, point clouds of agricultural environments can be profitably exploited to retrieve information on the crop status, geometries, field yield, and other valuable agronomical indices. In addition, 3D models are proving to be an effective input of robust control and navigation algorithms of autonomous vehicles in complex scenarios, such as the agricultural ones, allowing for enhanced obstacles and targets detection. In order to mine valuable information for agricultural purposes from 3D point clouds, however, specific computing frameworks are usually required, many of which are based on artificial intelligence (AI) and machine learning (ML) methods.

Deadline for manuscript submissions: **31 December 2021**