Special Issue

Proximal Sensing in Precision Agriculture

Message from the Guest Editor

There is a need to develop a mechanical framework in precision agriculture for rapidly predicting soil and crop properties that can handle the ever-increasing demand for soil and crop characterization, especially in resource-poor conditions. This Special Issue promotes the innovative outcomes resulting from the research in the field of proximal sensing in precision agriculture. Proximal soil sensing refers to a group of technologies that use a sensor in proximity to the soil such as diffuse reflectance spectroscopy, portable X-ray fluorescence spectroscopy, LIBS, Nix, digital camera, gamma spectrometry, electromagnetic induction, GPR, TDR, ISEFET, ion selective electrodes, etc. Consequently, the proximal soil sensors directly or indirectly measure the targeted soil property. Moreover, crop properties or damage can be assessed using drone images and tractor-mounted or handheld proximal sensors. This Special Issue embraces every aspect of proximal soil and crop sensing and welcomes research papers that can potentially advance the current scientific knowledge of rapid soil and crop characterization.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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