Special Issue

Advances in Remote Sensing Agronomic Application for Mapping and Modeling Soil Properties

Message from the Guest Editors

Soil plays a crucial role as a natural resource that sustains life on Earth, providing a wide range of ecosystem services, such as the production of food, recycling of nutrients, sequestration of carbon, and provision of habitat. Global warming, land use and land cover changes, and unsustainable agricultural practises contribute to accelerated soil quality loss. In spatial explicit analysis related to both agricultural and environmental issues, soil is one of the most important criteria to be considered. Although the assessment of soil properties is key to monitor soil health, data availability is scarce. Accordingly, in recent years, the potential of modern technologies and advanced methods like remote sensing has been widely investigated for mapping and monitoring soil properties. However, the obtained accuracies in previous research have varied, largely depending on various factors such as the spatial/spectral resolutions of sensors, the used methodology, and the study sites. In this context, the identification of new, reliable remote sensing techniques to monitor soil health and model soil dynamics at different spatial scale becomes extremely important.

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