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Remote Sensing of Soil Salinity: Detection and Quantification

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Message from the Guest Editors

As a current global issue, soil salinization is critically affecting our limited soil resource and deteriorating the ecosystem health. It poses a great threat to biodiversity, food security and the quality of the environment. To meet the rapidly increasing demand for food, saline soils have been reclaimed for agricultural operations to release extraordinary pressure on existing degraded land resources, which may accelerate the degradation of saline soils. Thus, dynamic detection of soil salinization is an urgent demand to provide more quantitative information for land reclamation since soil salinity has a high spatio-temporal variability. Traditional measurements of soil salinization using laboratory-based methods are expensive and time consuming and thus it can not to meet the increasing demand for accurate information of spatio-temporal of soil salinity. The development of remote sensing technology provides a new solution to fill this gap. Remote sensing technology has great advantages in monitoring soil conditions at a broad scale at high temporal resolution, which enables to map the spatio-temporal variation of soil salinity over a large area.

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Message from the Editor-in-Chief

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