Special Issue

Geostatistics and Machine Learning in the Mapping of Agricultural Soils: State-of-the-Art and Perspectives

Message from the Guest Editors

Agronomy is one of the applications demanding the most spatial information on the state, functions, potential and processes of soils. Very recently, predictive soil maps, in the form of digital soil maps, are considered as the most effective representation of specific features of the soil mantle. The evolution of digital soil mapping is strongly related to the availability of spatially exhaustive, relatively low-cost data as well as geostatistical and data mining methods suitable for the identification of hidden relationships between soil features and environmental factors, which then can be used for building predictive models. Recent advantages in proximal sensing increased the interest to apply and exploit the products serviced by these instruments for digital soil mapping at local and farm scale to support the spatial assessment of land and soil features. Research papers presenting innovative approaches for the high resolution spatial assessment and mapping of various soil characteristics are welcomed in the present Special Issue.

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Deadline for manuscript submissions

closed (30 June 2022)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/102035

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