



## Applications of Remote Sensing and Machine Learning for Digital Soil Mapping

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Deadline for manuscript submissions:

**closed (31 May 2025)**

### Message from the Guest Editors

Soil mapping serves as a fundamental activity underpinning numerous environmental and agricultural endeavors. The integration of machine learning with remote sensing technology offers a groundbreaking alternative, enhancing the precision, efficiency, and scope of soil analyses. The aim of this Special Issue is to demonstrate the enhanced capabilities that machine learning and remote sensing technologies bring to digital soil mapping. It seeks to bridge ML and traditional soil science, fostering a multidisciplinary exchange that elevates our ability to forecast, scrutinize, and manage soil resources with accuracy.

We are soliciting original research articles and reviews covering, but not limited to the following topics:

Integration of machine learning algorithms and remote sensing for soil property prediction

Machine learning approaches for soil classification and taxonomy

Soil spectral library

Proximal, airborne, and satellite remote sensing

Advanced analytics in soil science utilizing big data and artificial intelligence

Case studies demonstrating the impact of these technologies in agricultural and environmental contexts





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## Message from the Editor-in-Chief

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