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GIS and Remote Sensing for Soil Quality Assessment

Guest Editor:

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Deadline for manuscript submissions:
15 January 2025

Message from the Guest Editor

Geographic information systems (GISs) and remote sensing (RS) are fundamental technologies in the sustainable management of agricultural soils, integrating spatial data in monitoring and modeling farming practices. By utilizing GISs for spatial analysis and RS for acquiring spatio-temporal data, farmers and policymakers can make informed decisions that promote sustainable practices.

An important issue in this domain is the development of high-resolution satellite sensors and drones equipped with multispectral and hyperspectral cameras. Machine learning algorithms are increasingly being used to analyze large datasets from GISs and RS, providing predictive models for soil management.

We are soliciting papers that explore innovative methodologies and applications of GISs and RS in sustainable soil management. Topics of interest include, but are not limited to, soil moisture and nutrient mapping, integration of AI with GISs and RS in soil quality assessment, and case studies demonstrating successful implementations of these technologies in agricultural soils. Finally, we welcome the submission of all types of articles, including original research, reviews, and short communications.

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Message from the Editor-in-Chief

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