

Special Issue

GIS and Remote Sensing for Soil Quality Assessment

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.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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