

Special Issue

Cropland Suitability Evaluation Related to Crop Yield Based on Geospatial Data

Message from the Guest Editors

The evaluation of cropland suitability using geospatial technologies has become a critical research topic. The history of this field is rooted in the development of land evaluation frameworks, evolving from traditional soil-based assessments to modern approaches that integrate remote sensing, GIS, and machine learning. Today, these methods enable more accurate, timely, and scalable assessments of land potential while addressing challenges posed by climate change, resource limitations, and environmental degradation. This Special Issue will provide a platform for state-of-the-art research on spatial methods and models that advance cropland evaluation and yield prediction. The scope encompasses interdisciplinary contributions bridging agriculture, environmental science, and geoinformatics to support sustainable land use planning and precision farming practices. We particularly welcome papers that explore novel applications of remote sensing, GIS, and big data analytics in cropland suitability mapping, yield prediction, and resource optimization. Research incorporating machine learning, multi-sensor data fusion, and phenological modeling is of high interest.

Guest Editors

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Deadline for manuscript submissions

closed (15 March 2026)



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Message from the Editor-in-Chief

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