Combining Machine Learning Algorithms with Earth Observations for Crop Monitoring and Management

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Deadline for manuscript submissions:
25 December 2024

Message from the Guest Editors

We invite contributions that explore the following themes:

Geospatial Analysis for Precision Irrigation: Utilizing GeoAI to optimize irrigation strategies by integrating geospatial data, weather patterns, and machine learning to enhance water efficiency and crop yield.

Spatial Data Fusion for Agricultural Insights: Methodologies for integrating diverse datasets (e.g., geospatial, weather, soil, and crop information) using advanced data fusion techniques for informed decision-making.

Smart Crop Monitoring: Investigating how remotely sensed data, coupled with ML, can revolutionize crop health, growth, and yield prediction.

Pest and Disease Detection: Applying GeoAI technologies such as computer vision and machine learning to detect and diagnose crop diseases and pest infestations for early intervention and sustainable pest management.

Data-Driven Climate Risk Assessment: Developing predictive models to assess climate risks in precision agriculture, helping farmers mitigate climate-related challenges.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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