Special Issue

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

Message from the Guest Editors

We invite contributions that explore the following themes: Geospatial Analysis for Precision Irrigation: Utilizing GeoAl 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 decisionmaking. Smart Crop Monitoring: Investigating how remotely sensed data, coupled with ML, can revolutionize crop health, growth, and yield prediction. Pest and Disease Detection: Applying GeoAl 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 climaterelated challenges.

Guest Editors

Prof. Dr. Gniewko Niedbała

Dr. Magdalena Piekutowska

Dr. Sebastian Kujawa

Dr. Tomasz Wojciechowski

Deadline for manuscript submissions

closed (25 December 2024)



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Editor-in-Chief

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