

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 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.

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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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.

Editor-in-Chief

Prof. Dr. Les Copeland

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