Special Issue

Geospatial Artificial Intelligence (GeoAI) Applications in Agriculture for Smart Farming Solutions

Message from the Guest Editors

AI and spatial datasets for crop monitoring have become important. The rich historical archives and continuing acquisition of earth observation datasets provide opportunities for crop monitoring in response to the impacts of climate change. Besides, recent advances and applications of artificial intelligence algorithms make it possible to process many spatiotemporal datasets for crop growth and damage assessment, crop health analysis, crop yield and water requirements, and crop yield forecasting, which is extremely important for agronomists to devise successful strategies to address food security issues. This Special Issue aims to collect research manuscripts related to the applications of AI and earth observation datasets for such crop monitoring purposes at different scales across the globe. The topics include, but are not limited to, the following aspects:

Geospatial analysis for precision irrigation in smart farming

Spatial data fusion approaches for comprehensive agricultural insights

Integrating geospatial data and AI for smart crop monitoring

Pest and disease detection in precision agriculture

Data-driven climate risk assessment for precision agriculture.

Guest Editors

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Deadline for manuscript submissions

closed (25 July 2024)

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