

Special Issue

Revolutionizing Agriculture and Natural Resource Management with Artificial Intelligence Approaches

Message from the Guest Editors

We welcome submissions on, but not limited to, the following topics:

- Big Earth Data and GeoAI for crop health, crop yield, soil health, evapotranspiration, and drought/stress monitoring;
- AI approaches of spatiotemporal forecasting for agro-ecological systems;
- Edge and AIoT systems for scalable field analytics;
- Computer vision for disease/weed detection, phenotyping, and quality grading;
- Autonomous, multi-modal UAV systems from sensing to actuation;
- Field robotics: autonomous scouting and precision spraying/harvesting;
- AI applications for water allocation/quality monitoring; watershed-scale modeling and decision support;
- The role of AI in biodiversity assessment, restoration monitoring, and anti-deforestation analytics;
- Integrating AI approaches together with remote sensing data such as satellite, weather stations and in situ data in monitoring health management and sustainable agricultural practices.

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Message from the Editor-in-Chief

Informatics (ISSN 2227-9709) is an international, peer-reviewed, open access journal, which publishes original theoretical and empirical work on the science of informatics and its application in multiple fields. Our concept of Informatics includes technologies of information and communication as well as the biological, social, linguistic and cultural changes that initiate, accompany and complicate their development. *Informatics* publishes regular research articles, reviews and short notes. There is no restriction on the length of papers, and we encourage researchers to publish their theoretical and empirical results in as much detail as possible. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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