

Special Issue

Intelligent Systems Supporting the Assessment of Soil Influence on Crop Yields

Message from the Guest Editors

The aim of this Special Issue is to bring together original and review articles that explore applications of artificial intelligence and computational methods in assessing the impact of physical and chemical properties of soils on crop yield. This work should be guided by support for the development of data-driven predictive and decision-making tools to better manage natural resources and optimise crop yields. The publications reported in this Special Issue will aim to advance knowledge on the integration of modern analytical techniques with soil-plant-environmental research, in line with *Land's* mission as a multidisciplinary forum in the field of earth and environmental sciences. This Special Issue will welcome manuscripts that link the following themes:

- Using artificial intelligence and machine learning methods in the analysis of soil properties;
- The predictive modelling of plant growth and yield outcomes from soil data;
- Applications of remote sensing and GIS in soil-plant interaction research;
- Data-driven decision support systems for agriculture and sustainable land management;
- Reviews and meta-analyses on AI solutions in soil-plant relationship research.

Guest Editors

Dr. Magdalena Piekutowska

Department of Geocology and Geoinformation, Institute of Biology and Earth Sciences, Pomeranian University in Słupsk, 76-200 Słupsk, Poland

Dr. Patryk Hara

Department of Biosystems Engineering, Faculty of Environmental and Mechanical Engineering, Poznań University of Life Sciences, 60-627 Poznań, Poland

Deadline for manuscript submissions

30 November 2026



Land

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



mdpi.com/si/246459

Land
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
land@mdpi.com

[mdpi.com/journal/
land](https://mdpi.com/journal/land)





Land

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



[mdpi.com/journal/
land](https://mdpi.com/journal/land)



About the Journal

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant Impact Factor, and has a goal to become the best journal in land in the coming years.

Editor-in-Chief

Prof. Dr. Christine Fürst
Department Sustainable Landscape Development, Institute for
Geosciences and Geography, University of Halle, Halle, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SSCI (Web of Science), GEOBASE, PubAg, AGRIS, GeoRef, RePEc, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Nature and Landscape Conservation)