

## Special Issue

# Integrating Remote Sensing, Geospatial Technologies, and AI for Sustainable Land and Soil System Management

### Message from the Guest Editor

Topics include the following:

- Emerging data-processing technologies (deep learning/machine learning) for soil monitoring: the use of AI and machine learning to detect, classify, and predict soil degradation, contamination, and health indicators at multiple scales.
- The application of digital twin technology for the evaluation of land/soil/water systems: contributions that explore digital twin frameworks that can simulate dynamic interactions in complex land/water/soil systems, supporting scenario analysis and decision-support systems.
- Land use/land-cover change: investigating the drivers, patterns, and impacts of land cover transformation using remote sensing, geospatial intelligence, and spatio-temporal analysis.
- Land system science and social-ecological system research: research integrating land system dynamics with socio-economic and ecological feedback, fostering transdisciplinary approaches to landscape governance.
- Urban contexts, urban-rural interactions, and urban planning and development: papers that analyze land and soil management in urban settings, the impacts of urban expansion, and the integration of green infrastructure in planning frameworks.

### Guest Editor

Dr. Carmine Massarelli  
Italian National Research Council, Rome, Italy

### Deadline for manuscript submissions

31 December 2025



Land

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 5.9



[mdpi.com/si/242589](https://mdpi.com/si/242589)

*Land*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[land@mdpi.com](mailto: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. I strongly recommend *Land* for your best research publications for a fast dissemination of your research.

---

### Editor-in-Chief

Prof. Dr. Christine Fürst

Institute for Geosciences and Geography, Department Sustainable Landscape Development, University of Halle, Von-Seckendorff-Platz 4, 06120 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), PubAg, AGRIS, GeoRef, RePEc, and other databases.

#### Journal Rank:

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