

Special Issue

Advances in AI-Driven Geospatial Analysis and Data Generation (2nd Edition)

Message from the Guest Editors

This new Issue aims to further explore the transformative potential of AI in spatial data applications. We invite original research papers and review articles that explore the innovative use of AI for data extraction, generation, analysis, curation, and communication in the context of spatial data. Topics of interest may include, but are not limited to, the following:

- Geospatial artificial intelligence (GeoAI);
- Generative AI for geographic problems;
- Multimodal foundation models in geographic contexts;
- Spatial understanding, reasoning, and literacy of large language models;
- Advanced deep learning;
- AI assistants for mapping and cartography;
- AI and location intelligence;
- Machine learning and deep learning in GIS;
- AI-based spatial data storage and transfer technologies (cloud-native geospatial, streaming, etc.);
- Novel technologies in geocomputation and processing (serverless, edge computing, etc.);
- Ethical, legal, and privacy considerations of GeoAI;
- Biases in AI models;
- Explainable AI;
- Benchmarks and generation of datasets for AI model evaluation;
- Bibliometric studies on selected aspects of GeoAI;
- AI in geospatial education.

Guest Editors

Dr. Levente Juhász

Prof. Dr. Hartwig H. Hochmair

Dr. Hao Li

Deadline for manuscript submissions

31 December 2025



ISPRS International Journal of Geo- Information

an Open Access Journal
Published by MDPI

Impact Factor 2.8
CiteScore 7.2



mdpi.com/si/229295

*ISPRS International Journal of
Geo-Information*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijgi@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The *ISPRS International Journal of Geo-Information* invites you to submit research articles, reviews, and reports covering topics of the whole domain of geo-information. Although the journal was only founded in 2012, it has already achieved wide recognition in the scientific community. We are proud that since April 2015, our journal is indexed by the SCIE of the Web of Science. As Editor-in-Chief, I encourage you to consider *IJGI* for your scientific papers and would be pleased to welcome you as authors.

Editor-in-Chief

Prof. Dr. Wolfgang Kainz
Cartography and Geographic Information Science, Department of
Geography and Regional Research, University of Vienna,
Universitätsstr. 7, A-1010 Vienna, Austria

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