

Special Issue

LLM4GIS: Large Language Models for GIS

Message from the Guest Editors

This Special Issue focuses on the innovative research of LLMs in GISs, welcoming contributions that span foundational methodologies to real-world implementations. Topics of interest include intelligent spatial data processing (such as automated spatial data cleaning and transformation, as well as intelligent geospatial report generation); multimodal data fusion (integrating imagery, sensor data, and textual information to enable the unified modeling of complex spatial semantics); advances in spatial analysis and interaction (including LLM-enhanced spatial analysis methods and natural language interfaces for simplifying GIS operations); applications of LLMs in geospatial decision support systems (covering domains such as urban planning, environmental monitoring, and climate modeling); model optimization strategies for geospatial tasks (such as domain-specific token design, fine-tuning methods, and alignment with spatial ontologies); and a range of emerging interdisciplinary directions, including geospatial code generation, map generation from textual input, trajectory forecasting, and knowledge-driven spatial dialogue systems.

Guest Editors

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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.

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