

## Special Issue

# Spatial Analysis for Geographic Information System

### Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research that addresses the challenges and opportunities in spatial analysis for GIS. We invite researchers, academics, and professionals to submit their original research papers, review articles, and case studies that explore the latest developments in spatial analysis techniques and their applications within GIS. The focus of this Special Issue is on the theoretical and practical aspects of spatial analysis, including but not limited to the following topics:

- Advanced spatial analysis methods and algorithms for GIS;
- Integration of spatial analysis with big data and machine learning in GIS;
- Spatial data visualization and its impact on decision-making processes;
- The role of spatial analysis in urban planning, environmental management, and public health;
- Innovations in spatial data infrastructure and interoperability;
- Case studies demonstrating the practical application of spatial analysis in real-world scenarios;
- Evaluation of spatial analysis tools and their effectiveness in various GIS applications.

---

### Guest Editors

Dr. Shuang Li

Center for Historical Geographical Studies, Fudan University, Shanghai 200433, China

Dr. Daoye Zhu

College of Computer and Data Science, Fuzhou University, Fuzhou 350108, China

---

### Deadline for manuscript submissions

closed (30 May 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/220781](https://mdpi.com/si/220781)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )