

## Special Issue

# Advances in Computational Approaches for Spatial Analysis and Modeling

### Message from the Guest Editors

Spatial analysis and modeling (SAM) serves as a powerful tool for understanding the complexity of geospatial phenomena. With the availability of high-resolution geospatial data and the increasing complexities of geospatial analytic approaches, the resolution of geospatial problems using these data and approaches poses significant computational challenges. The past decades have witnessed advances in both computing and modeling performance through advanced computational approaches. These advanced computational approaches comprise machine learning algorithms (e.g., artificial neural networks, random forests, evolutionary algorithms, and swarm intelligence) and cyberinfrastructure (e.g., high-performance computing, cloud computing, and web technologies). With their powerful and intellectual abilities, advanced computational approaches for SAM have gained increasing attention from researchers interested in the study of spatially explicit phenomena.

---

### Guest Editors

Dr. Wenwu Tang

Dr. Eric Delmelle

Dr. Minrui Zheng

Ms. Yu Lan

---

### Deadline for manuscript submissions

closed (30 June 2021)



**ISPRS International  
Journal of Geo-  
Information**

---

**an Open Access Journal  
Published by MDPI**

---

**Impact Factor 2.8  
CiteScore 7.2**



[mdpi.com/si/37581](https://mdpi.com/si/37581)

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

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





## ISPRS International Journal of Geo- Information

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.8  
CiteScore 7.2



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

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



## 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

---

### 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), GeoRef, PubAg, dblp, Astrophysics Data System, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Geography, Physical) / CiteScore - Q1 (Earth and Planetary Sciences (miscellaneous))