

## Special Issue

# Advanced Methodology for Developing an Inventory Database of Human-Made Structures in Urban Areas for Assessment of Risk and Vulnerability

### Message from the Guest Editors

An inventory database for human-made structures would be crucial for such assessments. Open-source databases such as OpenStreetMap are now also available online. The existing databases, however, need to be updated to follow recent developments in urban areas in a timely manner if significant discrepancy between the database and the real world is found. Additionally, detailed information, which is required for risk and vulnerability assessment, such as the typical materials of the structure, structural systems, use, and construction year, is not contained in the database. The development of methodologies to effectively construct or update the inventory database and efficiently provide or estimate the attributes for risk assessment are important tasks that must be completed to prepare for coming disasters.

---

### Guest Editors

Dr. Hiroyuki Miura

Prof. Dr. Masashi Matsuoka

Prof. Dr. Yoshihisa Maruyama

---

### Deadline for manuscript submissions

closed (31 December 2021)



ISPRS International  
Journal of Geo-  
Information

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.8  
CiteScore 6.9



[mdpi.com/si/72063](https://mdpi.com/si/72063)

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

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

[ijgi](https://ijgi.org)





## ISPRS International Journal of Geo- Information

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.8  
CiteScore 6.9



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

[ijgi](http://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 (Remote Sensing) / CiteScore - Q1 (Geography, Planning and Development)