

Multidimensional and Multiscale GIS

Guest Editors:

Dr. Éric Guilbert

Department of Geomatics
Sciences, Université Laval,
Québec QC G1V 0A6 Canada
eric.guilbert@scg.ulaval.ca

Dr. Paweł Bogusławski

Faculty of Geoengineering,
Mining and Geology, Wrocław
University of Science and
Technology, Poland
pawel.boguslawski@pwr.edu.pl

Dr. Umit Isikdag

Department of Informatics,
Mimar Sinan Fine Arts University,
Istanbul, Turkey
umit.isikdag@msgsu.edu.tr

Deadline for manuscript
submissions:

31 January 2019

Message from the Guest Editors

This Special Issue focuses on the multidimensional modelling and representation of geospatial data. This includes spatial dimensions but also temporal and scale dimensions. We invite papers with original contributions, proposing new algorithms and data structures to handle geospatial data and their representation at multiple scale. Papers presented in the ISPRS Commission IV Symposium in Delft, October 2018 will be considered if they are extended to full journal papers. Topics of this Special Issue mainly focus on, but are not limited to:

- Geographic and spatial information systems
- Algorithms and data structures for modelling spatial phenomena
- Multiple representation of geospatial phenomena
- Topological data structures for multidimensional geometries
- Data structures for multiscale representations
- Algorithms for handling multiple representations
- Algorithms and data structures for terrain modelling
- Machine learning utilizing multidimensional and multiscale models
- Application of multidimensional models to city/urban information systems, BIM-GIS integration, infrastructure monitoring, disaster management, natural resources (forestry, mining, geology, etc.)





An Open Access Journal by MDPI

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

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.

Author Benefits

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

High visibility: The journal is covered by **Science Citation Index Expanded** (Web of Science), Scopus and INSPEC (IET).

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 24 days after submission; acceptance to publication is undertaken in 5.2 days (median values for papers published in this journal in 2017).

Contact us

ISPRS International Journal of Geo-Information
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/ijgi
ijgi@mdpi.com