

# Special Issue in Transactions in GIS - Call for Papers

## Geographical and Cultural Aspects of Geo-Information - Issues and Solutions

While the field of Geographical Information Science has achieved progress in many aspects, some questions related to the cultural and geographical aspects of geo-information still remain open, e.g. can GIScience produce generalizable methods or rules that exist above and beyond the context of geography and culture? How can geography and culture be formalized and included in geo-information developments? How geo-cultural contexts shape methods and research in the field? In what ways can societal impacts such as effects on privacy or on equality be considered within GIScience developments? This special issue aims to further explore these questions in light of the increasing availability of global geographical datasets, such as remote sensing data and OpenStreetMap, and the development of methods that attempt to utilize such datasets in a generic manner, e.g. machine-learning approaches. Thus, this special issue adopts a solution-oriented approach, considering how the geo-cultural aspects of data production and use can be integrated into methodological developments and asking what are the borders for producing general principles and approaches when working with geographical datasets and GIScience tools.

Accordingly, we seek high-quality contributions that study issues related, but not limited, to:

- The formalization of geo-cultural contexts within GIScience methods
- Representation of geo-cultural contexts with GISystems
- Identifying geo-cultural effects on geo-information and vice versa
- Methodological developments in analyzing global heterogeneous datasets
- Geo-ontologies and their relations to culture and geography
- The application of machine-learning methods across diverse geo-cultural contexts
- Integration of data production procedures in methodological developments and applications
- The transferability of GIScience methods over contexts
- Volunteered geographical information (VGI, e.g. OpenStreetMap) systems and methods for representing and capturing local knowledge
- Critical GIS, critiques of GIS, and their contributions to methodological development in GIScience
- Review of the state-of-the-art in addressing cultural and geographical peculiarities in GIScience

## Submission Guidelines

**The submission deadline is 15 January 2020.**

Manuscripts should be prepared in accordance with **the authors guidelines** [1] and **submitted via the journal's submission system** [2]. Please mark your manuscript as part of the special issue while submitting. All submissions will go through a **peer-review** process, in accordance with the regular requirements of Transactions in GIS.

Questions and inquiries should be referred to Dr. Tessio Novack: [novack@uni-heidelberg.de](mailto:novack@uni-heidelberg.de)

## **Guest Editors:**

- Dr. A. Yair Grinberger, The Hebrew University of Jerusalem
- Dr. Tessio Novack, Heidelberg University
- Dr. Michael Schultz, Heidelberg University
- Prof. Dr. Alexander Zipf, Heidelberg University

[1] <https://onlinelibrary.wiley.com/page/journal/14679671/homepage/forauthors.html>

[2] <https://mc.manuscriptcentral.com/tgis>