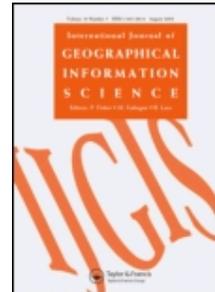# 3rd Call for Papers – Int. Journal of Geographical Information Science

Special Issue on
Information Semantics and its Implications for Geographical Analysis

Editors:
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Ontology and information semantics are central to research on enhanced interoperability between geographic information systems, services, and data sets. It is increasingly understood that deeper insights into information semantics also have consequences for geographic analysis in general. Development of semantic similarity metrics enables access to a much broader array of analytical methods for categorical data than those traditionally employed. Existing examples that demonstrate this potential are fuzzy accuracy assessment, map similarity estimates, and semantic versions of the standard variogram. An explicit recognition of the importance of context in semantic assessments also poses interesting questions for a quantitative approach to categorical data. The influence of context on semantic similarity measurement is a well-known phenomenon that has long been observed in psychological experiments. Although the results of human similarity ratings depend on the context, and this dependency is also reflected in recent similarity theories, the nature of this influence and its actual impact have not been subject to thorough research yet.

We are looking for original work regarding the integration of geospatial semantics and geographical analysis with an emphasis on geoprocessing and geospatial applications. One focus is thereby the potential use of semantic similarity metrics in spatial data manipulation, analysis, statistics, and modeling. A successful workshop on Information Semantics and its Implications for Geographic Analysis was held in conjunction with GIScience 2008[1], the International Conference on Geographic Information Science. A substantial part of contributions addressed the representation of and similarity measures for geographical categories, ontology-driven approaches to geographic information analysis, geospatial clustering analysis, and the analysis of behavioral similarity measures. The special issue will build on the workshop results[2]; however, it is open to submissions from anyone doing work in the area of information semantics and geographic analysis.

The papers will be refereed according to the usual standards and procedures of the journal. Manuscripts should conform to the guidelines presented in the IJGIS Instructions for Authors[3]. PDF is the preferred format for the initial submissions.

Please submit your manuscript of not more than 6000 words to isga08@ikw.uos.de by ~~March 31th, 2009~~ (April 28th 2009 extended deadline).

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[1] http://www.giscience.org/
[2] http://www.cogsci.uni-osnabrueck.de/~isga08/
[3] http://www.tandf.co.uk/journals/tf/13658816.html