

**Special Issue
Computers & Geosciences
Call for Papers**

Deadline for submission of manuscripts: March 15, 2011

Towards a Geoprocessing Web

As Web services technology has matured in recent years, a new scalable Service-Oriented Architecture (SOA) is emerging as the basis for distributed computing and large networks of collaborating applications. Meanwhile, an increasing amount of geospatial content and capabilities are available online as Web services. These Web Services allow users to collect, analyze and derive geospatial data, information, and knowledge on the Web in an interoperable way. In this respect, the analysis and transformation of geospatial data into geospatial information performed by Web-based geoprocessing is important. Moreover, Web-based geoprocessing of distributed geospatial information is changing the way in which geoscience applications and systems are designed, developed and used. Therefore, the Geoprocessing Web is emerging currently as one of the most desirable and vital research areas of geospatial information. The research on Geoprocessing Web is not limited to Web service technology, but also requires new domain-specific concepts and methodologies, and new approaches regarding development and management.

This special issue is to collect the current representative research in the area of Geoprocessing Web. To this aim, we seek a number of high-quality research and application papers that discuss the state-of-the-art research on theoretic framework and practical implementations, and identify challenges and open issues in Geoprocessing Web. Topics of interests include, but are not limited to:

- Service-Oriented Architecture for the Geoprocessing Web
- Geoprocessing in the Grid and in the Cloud computing
- Geoprocessing and Linked data
- Standards and Metadata for Geoprocessing
- Discovery in the Geoprocessing Web
- Quality of Service and Service Level Agreement in the Geoprocessing Web
- Geoprocessing Web and the Model Web
- Geospatial e-Science Workflow
- Applications in the Geoprocessing Web

****Important Dates**

Paper submission deadline:	March 15, 2011
Author notification:	May 15, 2011
Revisions submitted:	July 15, 2011
Final acceptance:	August 30, 2011
Publication:	4th quarter of 2011

****Submission Guidelines**

Manuscripts should be previously unpublished, 8-12 pages (3000-5000 words) and follow

Elsevier's formatting guidelines. Submission is via the Elsevier online paper submission system(<http://ees.elsevier.com/cageo/default.asp>, Article Type is Special Issue: Geoprocessing Web). All manuscripts will be peer-reviewed by at least two professionals. Qualified papers will be reviewed and recommended by the guest editors, with final decisions made by the journal's editors.

****Guest Editors**

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