

Call for Papers
ISPRS Journal of Photogrammetry and Remote Sensing
Theme Issue “Towards Intelligent Geoprocessing on the Web”

Guest Editors

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Geoprocessing services are an active topic in research and industry for enabling the dynamic, smart generation of web-based geospatial information based on personalized user preferences. As the service-driven paradigm continues to dominate web mapping and GIS development, the orchestration of web mapping and geoprocessing services from different sources becomes increasingly important. Old workflow principles and technologies have been explored as one of the integral components of web geoprocessing architectures to help achieve a better understanding of business and service processes and automate the service execution processes. Moving towards the Web as a GeoWeb platform and providing traditional GIS capabilities in a non-traditional way are also seen as a trend when more and more geospatial data and applications reside on the cloud. Grid computing plays an active role in Web mapping and GIS because it links disparate computers to form one large infrastructure, harnessing unused resources and forming an integral part of cloud computing. While performance issues are important, given the nature of geospatial data processing, other

issues related to interoperability, security, privacy, and currency also call for active studies. The emerging of web-centric operating systems, such as Google Chrome OS, is likely to stimulate many new interesting developments in the area of web geoprocessing.

Topics suitable for inclusion in the special issue are:

- Semantic-enabled automatic discovery and orchestration of geoprocessing services
- Automatic composition of geospatial services
- Web geoprocessing with open source
- Personalization of web map services
- Geoprocessing in the cloud
- Multi-dimensional web geoprocessing
- Quality of geoprocessing services

Papers must be original contributions, not previously published or submitted to other journals. Papers published or submitted for publication in conference proceedings, especially those in WebMGS 2010 and 2011, may be considered as long as they are considerably extended and improved. Substantive research and relevant-for-practice papers are preferred. Papers must follow the instructions for authors at <http://www.itc.nl/isprsjournal>.

Please submit the full manuscript to <http://ees.elsevier.com/photo> by **1 April 2012**. An early expression of interest through email to guest editors is highly appreciated.

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