

Advances and New Perspectives in Geographic Object-Based Image Analysis

Guest Editors

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A Special Issue on “Advances and New Perspectives in Geographic Object-Based Image Analysis” will focus on recently introduced theories and innovations as well as future research trends in Geographic Object-Based Image Analysis (GEOBIA) by remote sensing scientists and professionals.

Since emerging early in the 21st century, GEOBIA has incorporated and further upgraded established concepts in remote sensing and interrelated spatial sciences. It has gained wide popularity and attracted the interest of both the scientific and professional communities, for its efficiency to provide enhanced and reliable geospatial intelligence. The growing interest in GEOBIA is demonstrated by the increasing number of high-quality manuscripts appearing in the literature and the recent development of GEOBIA-related (open source/commercial) software packages. Towards that end, the bi-annual GEOBIA conferences held in Salzburg (2006), Calgary (2008), Ghent (2010), Rio de Janeiro (2012) and Thessaloniki, Greece (2014), have provided the impetus for much progress in Geographic Object-Based Image Analysis.

Specifically, this special issue aims to bring together articles that report advances and set up new perspectives in GEOBIA theory, methods and innovative applications including but not limited to the following:

- Image segmentation algorithms
- Integration with novel classification algorithms
- Classification/error assessment, uncertainty, statistical analysis
- Object-based change detection
- Multi-scale and multi-temporal classifications strategies and representations,
- Multi-sensor data integration and information fusion
- Complex geospatial feature detection
- Ontologies
- Synergies with GIScience
- Open source software
- Local, regional and global scales applications
- Web-based GEOBIA services and semantics
- Future developments

All submissions will be peer-reviewed in line with *PE&RS* policy. Because of page limits, not all submissions recommended for acceptance by the review panel may be included in the special issue. Under this circumstance, the guest editors will select the most relevant papers for inclusion in the special issue. Papers that are reviewed favorably, but will not fit within the Special Issue, can be revised and submitted for review as a new paper to the PE&RS Editor-in-Chief for possible publication in a future regular issue of *PE&RS*. Authors must prepare manuscripts according to the *PE&RS* Instructions to Authors, published in each issue of *PE&RS* and also available on the ASPRS website at <http://www.asprs.org/PE-RS-Submissions-Policy-and-Guidelines/blog.html>.

Important Dates:

Manuscripts Due:	August 1, 2014
Notification to Authors:	November 1, 2014
Final Papers Due:	December 1, 2014
Publication:	June 1, 2015

Please submit your manuscript by email directly to the Guest Editor:

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