Geographic Object-Based Image Analysis: State-of-the-Art and Emerging Research Trends

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Message from the Guest Editors

The objective of this Special Issue is to present GEOBIA applications that incorporate recent developments for segmentation, classification, feature extraction, or segmentation parameter selection algorithms. It is our view that this Special Issue provides a timely and valuable opportunity for geo-information community researchers to rethink and advance the GEOBIA workflow by reaping the benefits of recent technology developments, especially in the deep learning area. In this context, we would like to invite our colleagues to submit their GEOBIA studies, in, but not limited to, the following topics:

- Image segmentation and segmentation parameter optimization algorithms;
- Integration of deep learning algorithms in GEOBIA workflow;
- Applications of deep learning semantic segmentation algorithm in the geospatial analysis field;
- Sampling strategies to train or evaluate deep learning classifiers;
- GEOBIA usage in urban and natural land cover/use mapping and change detection applications;
- Algorithms for GEOBIA of Big Data;
- GEOBIA applications in large scale production emphasizing Big Data and cloud computing;
- GEOBIA classification assessment metrics and methods.

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Special Issue

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Message from the Editor-in-Chief

The *ISPRS International Journal of Geo-Information* invites you to submit research articles, reviews, and reports covering topics of the whole domain of geo-information. Although the journal was only founded in 2012, it has already achieved wide recognition in the scientific community. We are proud that since April 2015, our journal is indexed by the SCIE of the Web of Science. As Editor-in-Chief, I encourage you to consider *IJGI* for your scientific papers and would be pleased to welcome you as authors.

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