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Advances in Unmixing of Spectral Imagery

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Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

Dear Colleagues

The primary goal of this Special Issue of Remote Sensing is to provide a forum for the discussion of the latest advances in modeling theories, methodologies and techniques, and applications of spectral unmixing. A list of topics of interest includes, but not limited, to the following

- Spectral mixing modeling (linear, nonlinear)
- Endmember extraction algorithms and approaches for learning endmembers from data
- Novel algorithms for abundance estimation
- Unsupervised and semi-supervised algorithms for unmixing
- Probabilistic methods for unmixing
- Feature extraction and dimensionality reduction for unmixing
- Partial unmixing and subpixel material detection
- Methodologies to quantify the accuracy of unmixing results
- Development of spectral libraries
- Data sets with reference data for testing and validation of unmixing algorithms
- Experimental approaches for unmixing
- Spatial resolution enhancement by fusing unmixing results and high spatial resolution multispectral data
- Applications of unmixing (e.g. urban, agriculture, environment, land cover, benthic habitat mapping, space situational awareness, extraterrestrial space exploration, etc.)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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