



## CALL FOR PAPER

### IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

#### Special Issue on Quantitative Land Remote Sensing: Inversion Algorithms, Products and Applications

The field of remote sensing develops rapidly and quantitative remote sensing has even grown faster. Immense amounts of data with different characteristics have been available from various satellites and airborne platforms. Since considerable investments were put into developing physical models to understand surface radiation regimes in early years, realistic and computationally simplified radiative transfer models have been developed for inversion of Earth's environmental variables. State-of-the-art remote sensing inversion is well advanced, and the use of regularization methods by incorporating *a priori* knowledge and integrating multiple-source data from different spectra and instruments have begun. Researches on developing the long-term time series satellite products as the Climate Data Records or Earth System Data Records are on the way. Validating, inter-comparing and eventually integrating multiple products of the same biogeophysical variable are attracting more attentions. More people are also using different satellite products for a variety of applications.

It will cover the full aspects of quantitative remote sensing, with particular focuses on

- New satellite programs and emerge sensor technology
- Radiative transfer modeling
- Inversion methodology
- Machine learning for radiative transfer modeling and biophysical parameter retrieval
- Satellite products generation
- Field measurements and algorithm/product validation
- Assimilation of satellite products into process models
- Satellite product applications
- Technical reviews on the relevant topics

#### Schedule

March 31, 2018: Manuscript submission deadline

March 2019: Publication

#### Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the "Quantitative land remote sensing" special issue manuscript type. Prospective authors should consult the site <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7676436> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please note that IEEE JSTARS applies a mandatory page over length charge of \$200 per page (beginning with page 7 and beyond).

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