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

Special Issue on
"Deep Learning for Remote Sensing Image Scene Classification"

During the past decades, remarkable efforts have been made in developing various methods for the task of remote sensing image scene classification because of its important role for a wide range of applications. More recently, driven by the increasing availability of large-scale annotated data, efficient training strategies, and high-performance computational hardware, various deep learning-based solutions have been developed in a wide range of applications including remote sensing image scene classification. Compared with traditional methods that rely on handcrafted features, deep learning-based methods allow the acquisition of knowledge directly from data and so are capable of extracting much more abstract and semantic features with better representation capability. Due to the compelling advantages of deep neural networks, deep learning has opened an appealing era for remote sensing image scene classification and has been attracting more and more research interest.

The theme of the special issue will be on recent advances of remote sensing image scene classification. Submissions should address the following or closely related topics:
- Deep learning algorithms and models (supervised/weakly-supervised/unsupervised);
- Deep learning-based transfer learning/metric learning;
- Feature learning and feature representation with deep learning algorithms;
- Understanding of deep learning architectures/algorithms for remote sensing images;
- Advanced training and testing of deep learning methods;
- Deep learning-based remote sensing applications (e.g., semantic labeling, object detection, image retrieval, image super-resolution, data fusion, etc.);
- Novel benchmark data for remote sensing image understanding.

Schedule
December 1, 2019:	Submission system opening
May 31, 2020:	Submission system closing
2020:	Publication date

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 "Deep Learning for Remote Sensing Image Scene Classification" special issue manuscript type. Prospective authors should consult the site http://www.grss-ieee.org/publication-category/jstars/ for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). For a template in this format please consult the site http://www.ieee.org/publications_standards/publications/authors/author_templates.html. Please note that as of January 1, 2020, J-STARS will become a fully open-access journal, charging a flat rate of $1250 for each paper.

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