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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue On
“Graph-based Methods for Remote Sensing”

Graph-based methods have been intensively studied by the pattern recognition, machine learning, and computer vision communities. In recent years, there are strong interests in introducing graph analysis methods to characterize the relationship between structured remote sensing data. Relevant approaches have been developed for a number of tasks, ranging from data visualization, image clustering and segmentation, to target detection, recognition and image classification. The source of image data analyzed covers most remote sensing image types, such as color, multispectral, hyperspectral, and SAR. With the development of deep learning methods, new approaches on learning graph-based representations have also emerged, which brings exciting opportunities and challenges to both theoretical research and applications. This special issue aims to address the challenges and foster the communication and dissemination of research outcome from researchers in this area. The topics of this special issue include, but are not limited to:

- Graph-based learning approaches – supervised, unsupervised, and semi-supervised
- Graph deep learning methods
- Graph matching methods
- Shape analysis in remote sensing images
- Object detection and recognition in remote sensing images
- Remote sensing image classification
- Novel benchmark datasets and their evaluation
- Novel remote sensing applications based on graph-based methods

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 “Graph-based Methods for Remote Sensing” 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. For a template in this format please consult the site http://www.ieee.org/publications_standards/publications/authors/author_templates.html. Please note 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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