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

Special Issue on
"Benchmarking in Remote Sensing Data Science"

Benchmark data are the basis for performance evaluation of data analysis methods. Although in recent years enormous effort has been dedicated to research and development of big data analysis, image and signal processing techniques, and machine (deep) learning in remote sensing, the collection and preparation of benchmark data have been limited to particular tasks. This special issue aims to collect contributions for establishing new benchmark data in remote sensing data analysis with respect to their applications. The guest editors require that contributors will make the datasets and the code for baseline methods freely available to ensure the transfer of know-how to other students and researchers for pushing our scientific community forward. When a paper is accepted, it is encouraged to set up an evaluation server with the support from the IEEE GRSS Image Analysis and Data Fusion Technical Committee if needed. New contributions that use benchmark datasets introduced in this special issue are also welcomed.

Potential topics for this special issue include, but are not limited to:
- Denoising
- Super-resolution
- Pan-sharpening
- Inpainting
- Image translation
- Semantic segmentation
- Scene classification
- Spectral unmixing
- Change detection
- 3D reconstruction
- 3D point cloud classification

Schedule
August 1, 2020:   Submission system opening
March 31, 2021:   Submission system closing
2020-2021:   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 using the Manuscript Central interface (http://mc.manuscriptcentral.com/jstars) and select the "Benchmarking in Remote Sensing Data Science" special issue manuscript type. Please consult http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7416303 for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single-spaced). For a transactions paper template, please download at http://www.ieee.org/publications_standards/publications/authors/author_templates.html. Note that as of Jan. 1, 2020, IEEE J-STARS became a fully open-access journal, charging a flat publication fee $1250 per paper.

Guest Editors
Naoto Yokoya   The University of Tokyo and RIKEN, Japan (yokoya@k.u-tokyo.ac.jp)
Pedram Ghamisi   Helmholtz-Zentrum Dresden-Rossendorf, Germany (p.ghamisi@gmail.com)
Ronny Hänsch   German Aerospace Center, Germany (rww.haensch@gmail.com)