

CALL FOR PAPERS**IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**

Special issue on “Hyperspectral remote sensing and imaging spectroscopy”

Hyperspectral imaging is one of the fast moving areas of research and industrial development in remote sensing. In this special issue of IEEE JSTARS, we aim at gathering high-level contributions dealing with the acquisition and processing of hyperspectral data. By hyperspectral data, we mean signals acquired by spectrometers as well as images acquired from airborne and satellite sensors. Papers for the special issue must address relevant topics in hyperspectral signal and image processing, and include sound implementation and validation procedures.

The technical topics of interest include (but are not limited to)

- spectrometers and hyperspectral sensors : design and calibration
- physical modeling, physical analysis
- noise estimation and reduction
- dimension reduction
- unmixing, source separation, endmember extraction
- segmentation, classification
- high performance computing and compression

We warmly welcome application papers, including

- airborne and satellite remote sensing,
- monitoring of the environment, pollution, precision agriculture,
- land, soil and mineralogy,
- water bodies, oceans, coastal areas,
- forestry, vegetation,
- urban areas,
- defense applications,
- astrophysics and planetary exploration

The special issue follows the IEEE GRSS WHISPERS 2016 conference (Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, <http://www.ieee-whispers.com>) but submission is **not** restricted to WHISPERS contributors and attendees. The papers will be judged only by their quality.

Format and preliminary schedule

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 “Hyperspectral remote sensing” special issue manuscript type. Prospective authors should consult the site <http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4609443> for guidelines and information on paper submission.

Schedule

May 31, 2017	Submission deadline
May , 2018	Publication deadline

Guest editors

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