



w h i s p e r s



IEEE



Special issue of the JSTARS : IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Following the third Workshop on Hyperspectral Image and Signal Processing - Evolution in Remote Sensing (WHISPERS) held in Lisbon, Portugal, in June 2011, a special issue of the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS) will be edited on Hyperspectral Image and Signal Processing.

The aim of this special issue is to gather a number of papers dealing with hyperspectral data processing in remote sensing, generally speaking:

By "data", we mean:

- signals, as provided by spectrometers and processed individually
- images, from airborne or satellite sensors, up to astrophysical data
- models: models of the sensors or of the sensed scene, including physical considerations.

By "processing", we mean everything from the acquisition, the calibration to the analysis (image processing, signal processing, feature extraction, dimension reduction, unmixing and source separation, classification...).

People are invited to submit original papers reporting new research results on the following suggested topics :

- 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

Applications oriented papers are also welcome. As a matter of fact, spectrometry is now used in a wide range of domains, including:

- airborne and satellite remote sensing,
- monitoring of the environment, pollution, precision agriculture, forestry
- defense related applications
- planetology and astrophysics

Please submit your manuscript electronically:

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Additional information for authors:

<http://www.grss-ieee.org/files/JournalInfoForAuthors.pdf>

Important dates:

Submission deadline: July, 20, 2011

Publication date: April 2012

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