



Special issue on “Hyperspectral Imaging”

Guest Editors

Prof. Mario Parente, University of Massachusetts, USA (mparente@ecs.umass.edu)

Prof. John Kerekes, Rochester Institute of Technology, USA (kerekes@cis.rit.edu)

Dr. Rob Heylen, University of Antwerp, Belgium (rob.heylen@uantwerpen.be)

Hyperspectral imaging is one of the cornerstones of remote sensing, and has already seen numerous high-impact applications in a large number of industries and fields, with thousands of new scientists discovering its potential each year. This special issue will present an array of tutorial-like overview papers that give the interested reader an introduction on the state of hyperspectral imaging at this point in time. The first part of the contributions will focus on the imaging technology itself, the data acquisition process, including ground-truthing campaigns, post-processing of raw data including atmospheric compensation and denoising, as well as simulation of hyperspectral imagery. The second part presents major hyperspectral image analysis applications, with a focus on scientific problems and state of the art data-analytics approaches.

In agreement with the approach and style of the Magazine, the contributors to this special issue will pay strong attention to creating a balanced mix between ensuring scientific depth, and dissemination to a wide public which would encompass remote sensing scientists, practitioners, and students.

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

- Hyperspectral sensors
- Ground-truthing and vicarious calibration
- Atmospheric compensation and reflectance retrieval
- Simulation of hyperspectral images
- Applications:
 - Forestry
 - Agriculture
 - Urban
 - Military
 - Geology
 - Planetary Science
 - Coastal Zones
 - Land Ice and Snow
 - Cultural Heritage and Archeology
 - Thermal IR Surface Sensing

Format and preliminary schedule. Articles submitted to this special issue of the IEEE Geoscience and Remote Sensing Magazine must contain significant relevance to geoscience and remote sensing and should have noteworthy tutorial value. Selection of invited papers will be done on the basis of 4-page White papers, submitted in double-column format. These papers must discuss the foreseen objectives of the paper, the importance of the addressed topic, the impact of the contribution, and the authors' expertise and past activities on the topic. Contributors selected on the basis of the White papers will be invited to submit full manuscripts. Manuscripts should be submitted online at <http://mc.manuscriptcentral.com/grsm> using the Manuscript Central interface. Prospective authors should consult the site <http://ieeexplore.ieee.org/servlet/opac?punumber=6245518> for guidelines and information on paper submission. Submitted articles should not have been published or be under review elsewhere. All submissions will be peer reviewed according to the IEEE and Geoscience and Remote Sensing Society guidelines.

The following schedule is proposed:

August 31, 2017	White paper submission deadline
September 30, 2017	Invitation notification
November 30, 2017	Full paper submission deadline
March 30, 2018	Review notification
June 30, 2018	Revised manuscript due
September 30, 2018	Final acceptance notification
October 31, 2018	Final manuscript due
March, 2019	Publication date