

**Call for Papers**  
**IEEE Signal Processing Society**  
**IEEE Journal of Selected Topics in Signal Processing**

**Special Issue on Advances in Remote Sensing Image Processing**

Our planet is continuously observed by airborne and satellite sensors that acquire tons of data to be processed and analyzed daily. Different problems are posed from a signal processing and machine learning points of view: the acquired signals have to be processed in a timely manner, transmitted, further corrected from different distortions, eventually compressed, and ultimately analyzed to extract valuable information from them with, for instance, advanced classification or regression methods. Recently, new learning paradigms have been introduced and latest advances in signal and image processing tools have been incorporated to the current toolbox of remote sensing data users.

The goal of this special issue is to summarize the recent advances in the remote sensing signal/image processing field in a comprehensive manner. The topics of interest include, but are not limited to:

1. Image coding
2. Image classification and target detection
3. Image denoising and restoration
4. Model inversion and function approximation of bio-geo-physical variables
5. Source separation and signal unmixing
6. Feature selection/extraction
7. Manifold characterization and data visualization
8. Data fusion, pansharpening, downscaling

Prospective authors should visit <http://www.signalprocessingsociety.org/publications/periodicals/jstsp/> for information on paper submission. Manuscripts should be submitted using the Manuscript Central system at <http://mc.manuscriptcentral.com/jstsp-ieee>. Manuscripts will be peer reviewed according to the standard IEEE process.

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First review completed: Jul 15, 2010  
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Final manuscript due: Nov 30, 2010

**Lead guest editor:**

Gustavo Camps-Valls , Image Processing Laboratory (IPL), Universitat de València  
[Gustavo.camps@uv.es](mailto:Gustavo.camps@uv.es)

**Guest editors:**

Jón Atli Benediktsson, Faculty of Electrical and Computer Engineering University of Iceland  
[benedikt@hi.is](mailto:benedikt@hi.is)

Jocelyn Chanussot, GIPAS-Lab / ENSE3, France  
[jocelyn.chanussot@gipsa-lab.grenoble-inp.fr](mailto:jocelyn.chanussot@gipsa-lab.grenoble-inp.fr)

Lorenzo Bruzzone, Dept. Information Engineering and Computer Science, Univ. of Trento  
[bruzzone@ing.unitn.it](mailto:bruzzone@ing.unitn.it)