



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

Special Issue on
“Hyperspectral Image and Signal Processing: A special issue honoring Prof. José Manuel Bioucas-Dias”

José Manuel Bioucas-Dias was a senior researcher at Instituto de Telecomunicações and a professor at Instituto Superior Técnico (IST), University of Lisbon. He dedicated his research life to the area of signal and image processing, in problems such as the reconstruction, restoration, and analysis of images. In particular, he focused deeply on processing and analysis of remote sensing observations, a subject in which was widely considered a world-leading authority. José Bioucas-Dias contributed to highly relevant and influential scientific and technical advances in synthetic aperture radar, interferometric radar, and hyperspectral imaging. For instance, he was one of the scientists behind the creation of the field of spectral unmixing, which has become a very important technique for sub-pixel interpretation of remotely sensed hyperspectral images. The direct and indirect implications and applications of his contributions are numerous, namely in the processing and analysis of satellite and airborne images, whose impact on modern society is enormous. This special issue honors his contributions by soliciting papers in the main areas in which Prof. Bioucas provided significant contributions.

The broad topics include (not an exhaustive list):

- Hyperspectral unmixing.
- Hyperspectral image fusion.
- Image super-resolution.
- Compressive sensing of hyperspectral data.
- Hyperspectral image classification and segmentation.
- Integration of spatial and spectral information in hyperspectral data analysis.
- Hyperspectral image denoising and deblurring.
- Semi-supervised unmixing of hyperspectral data.
- Computationally efficient implementations of algorithms for remote sensing data analysis.
- Phase unwrapping and estimation problems in remote sensing.
- Interferometric SAR and synthetic aperture sonar (InSAR/InSAS) data processing.

Schedule

25 Jun. 2021 Submission system opening

31 Mar. 2022 Submission system closing

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 on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Hyperspectral Image and Signal Processing: A special issue honoring Prof. José Manuel Bioucas-Dias**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee \$1,250 per paper.

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