Special Issue

Scientific Applications of Imaging Spectroscopy from Laboratory to Spaceborne Observation Scale

Message from the Guest Editors

In recent years, imaging spectroscopy or hyperspectral imaging (HSI) has found its way into many fields of research. HSI is able to cover a large variety of observation scales ranging from hyperspectral microscopy imaging to spaceborne remote sensing. The development of miniaturized hyperspectral sensors has fostered applications related to data acquisition with lightweight UAV platforms. Spaceborne hyperspectral data acquisitions from earth observation satellite platforms allow for a wide range of applications in the fields. The Special Issue focus is on, but is not limited to, the following topics:

- Technical aspects of HSI data acquisition also in combination with other instruments (multi-sensor data);
- Statistical and computational methods for image analysis;
- Innovative applications intrinsically coupled to the specific hyperspectral data dimension and with a deep understanding of the physical principles behind the image exploitation;
- Scaling effects with a systematic consideration of different image acquisition scales and concepts of upscaling/downscaling mechanisms;
- Subpixel mapping methods exploiting the hyperspectral data dimension.

Guest Editors

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Prof. Dr. Marion Pause

Deadline for manuscript submissions

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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