

Special Issue

Classification and Segmentation of Hyperspectral Images: Techniques and Tools

Message from the Guest Editor

Hyperspectral images capture the spectral data for each pixel and provide very detailed characteristics of the materials within a scene. Hence, exploiting such detailed spectral information can open new possibilities in various domains. With the current sensor advances, we are facing exciting challenges concerned with efficient analysis of the highly dimensional image data in a plethora of real-life use cases, ranging from remote sensing, precision agriculture, chemistry, and biology to forensic applications, just to mention a few. The aim of this Special Issue is to gather and present recent advances in hyperspectral image classification and segmentation. The core themes of this topic cover all steps of the data processing pipeline, from its acquisition to final analysis and understanding, with special emphasis put on classification and segmentation. Keywords

- Hyperspectral imaging
- Classification
- Segmentation
- Regression
- Hyperspectral Unmixing
- Machine learning
- Deep learning
- Supervised, unsupervised, semi-supervised learning
- Image processing and analysis

Guest Editor

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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