Feature Extraction and Data Classification in Hyperspectral Imaging

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Message from the Guest Editors

Hyperspectral imaging is currently a fast-moving area of not only research but also industrial development, where captured hyperspectral cubes provide abundant information with great potential in many different applications. In this Special Issue, we aim to compile state-of-the-art research on how to tackle the "big data" problem of extracting the most useful information out of the hyperspectral paradigm. This Special Issue is open to any researcher working on hyperspectral data mining and data classification. Specific topics include (but are not limited to) the following:

Denoising and enhancement; Band selection and data reduction; Supervised and unsupervised feature extraction and feature selection; Compressive sensing and optimised data acquisition; Spatial–spectral data fusion; Spectral unmixing and super-resolution for improved classification; Deep learning approaches for data mining and data classification; Visualisation of the data and features; Fast implementation of the algorithms using GPU, etc.; Emerging new datasets and applications.

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