Special Issue

Hyperspectral Image Processing: Anomaly Detection and Classification

Message from the Guest Editors

In the study of earth science and remote sensing (RS), hyperspectral images (HSIs) have received increasing attention in recent years. Compared with other types of RS images, HSIs are composed of hundreds of continuous spectral bands and contain a large amount of spatial–spectral information, which can be used to distinguish targets of different materials at the pixel level. Reliable analysis results can be applied to many remote sensing scenarios, such as agricultural management, ecological observation, etc. To date, scholars have developed a large number of methods to classify pixels in HSI into different semantics. Initially, most of them were proposed based on traditional machine learning, such as decision trees, random forests, support vector machines, etc. With the development of deep learning, many deep networks have also been proposed, such as convolutional neural networks, recurrent neural networks, etc. However, as the content of HSIs becomes richer and the application requires more and more subdivided scenes, advanced technologies still need to be explored to fully mine the effective information of HSIs.

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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.

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