remote sensing

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Recent Advances in Hyperspectral Image Processing

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Message from the Guest Editors

Over the past decades, hyperspectral imagery (HSI) has paved a way to observe and analyze various ground cover materials with abundant spectral information from hundreds or thousands of spectral bands. The rich spectral information provided by HSI makes it possible to distinguish various surface materials because every material has its own reflectance spectra characteristics, thus allowing for the application of HSI in many fields, including agriculture, forestry, environmental monitoring, geology, mineralogy, military, and medical imaging. Hyperspectral image processing techniques are developing rapidly in the current remote sensing community. Particularly, the development of computer technology and calculation technique, such as artificial intelligence, deep learning, and weakly supervised learning, has expanded and enhanced the application direction and scope of hyperspectral image processing in recent years. However, several challenges and open problems are still waiting for efficient solutions and novel methodologies. The main goal of this special issue is to address advanced topics related to hyperspectral image processing.