Remote Sensing Image Restoration and Reconstruction

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Message from the Guest Editors

In real cases, remote sensing images usually suffer from noises (Gaussian noise, stripe noise, impulse noise, spectral noise, speckle noise, temporal noise, mixed noise, etc.); data missing (thick/thin cloud, shadow, sensor malfunction etc.); and spatial resolution degradation due to equipment limitations, working conditions, limited radiance energy, and generally narrow band width. These phenomena severely degrade the quality of remote sensing images and limit the performance of the subsequent processing, e.g., classification, unmixing, and target detection. Therefore, it is a critical preprocessing step to improve the quality of remote sensing images. Remote sensing image restoration and reconstructing provides solutions to deal with above degradation problems.