Special Issue

New Approaches and Applications of Remote Sensing Image Restoration

Message from the Guest Editors

Remote sensing images acquisition processes are generally influenced by various kinds of degradation, such as noise, geometric distortions, changes in illumination, blur (motion, atmospheric turbulence, out-of-focus), etc. Image restoration as an inverse imaging approach is becoming one of the central issues in the development of remote sensing, since it can estimate original images from the observed distorted ones. Remote sensing images restoration can be applied as a pre-processing technique to improve image quality, which supports further stages of data analysis, object detection and classification. Besides, image restoration can be used for remote sensing data at the post-processing stage, for reducing distortions caused by lossless coding of images (blocking and ringing artifacts). In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the field of remote sensing image restoration. Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers.

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