

Comparison of Data Fusion Technique Using ALOS PALSAR and AVNIR- 2 Optical Data for Feature Identification.

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ABSTRACT

This study evaluated the advantages of combining traditional space borne optical data from the visible and infrared wavelength with the longer wavelengths of Radar. Land use information is one of the most useful input element in forming policies concerning to economic, environmental issues at national and also at global levels. With the view of these different spectral, temporal and spatial qualified sensors are developed. Fusion of satellite images with different spatial and spectral resolutions plays an important role for extracting information. This research investigates the quality assessment of Radar data fusion with optical imagery. This application describes a comparative study of multi sensor image fusion techniques in preserving spectral quality of the fused images. PCA (Principal Component Analysis) techniques and Brovey Transformation are implemented for image fusion.

Keyword: ALOS PALSAR, AVNIR-2, Fusion technique, Remote Sensing, Classification, Comparison.