# Image Fusion Techniques and Measurement to Assess the Image Quality

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**Abstract***: Image processing techniques focus upon enhancing the quality of an image or set of images and to derive maximum information from them, producing a superior quality image from a set of available images. Image Processing is a computer imaging where application involves a human being in the visual loop. Information fusion is a naturally occurring phenomenon in the most biological system. Data from various sources are merged in order to make optimal decision. In field of remote sensing, satellite image are captured in various frequency bands with different spatial, temporal and spectral reslutions. Remote sensing data is useful in various application from monitoring growth of vegetation to detection of geographical infiltration.*

**Keywords:** Image Fusion, Wavelength, HIS, PCA, DWT.

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