Abstract

Satellite images are used in many applications like military, forecasting, astronomy, and geographical information. Satellite images have to face spatial and spectral resolution problems due to scattering, atmospheric conditions, etc., also they have poor perception. This limitation of resolution needs to be overcome before further processing. The goal of image resolution enhancement is to improve specific features of an image for its correct representation. Better resolution is obtained by applying enhancement techniques on blurred and noisy images. In this paper various image enhancement techniques under wavelet domain like WZP, DWT, and DT-CWT are discussed. This paper also gives selection of suitable enhancement technique.
Satellite Image (Multispectral) Enhancement Techniques in Wavelet Domain: An Overview


- Alexander Hildebrand, Claas Falldorf, Christoph von Kopylow and Ralf B. Bergmann, 2010, "Resolution Enhancement by Time-Multiplexed Acquisition of Sub-Pixel Shifted Images Employing a Spatial Light Modulator," Germany.

**Index Terms**

Computer Science  
Image Processing

**Keywords**

Satellite Image enhancement  
Wavelet Transform  
Remote sensing  
Multispectral image enhancement  
Interpolation.