Abstract

Image fusion can be used as a tool to increase the spatial resolution. In that case the high resolution panchromatic imagery is fused with low-resolution often multi-spectral image data. The multispectral images are images created from the several narrow spectral bands. It contains all spectral (color information) details but not spatial details. Panchromatic images are single band images generally displayed as shades of gray. It contains all high spatial details (geometric) but not spectral details. Various fusion algorithms have been developed over the years. Image fusion methods can be broadly classified into two categories - spatial domain and transform domain methods. All these methods improve spatial or spectral resolutions. Hence, there is a requirement for development of newer techniques to fuse high resolution Cartosatseries data with high resolution of spatial and spectral details of all image data type.

References


Index Terms

Computer Science Image Processing

Keywords

Image fusion, pan chromatic image, multispectral image, spatial resolution, spectral resolution