Abstract

The contrast enhancement of the satellite images without producing unnatural and unclear images is an important challenge in image processing. Also, the clouds are an important issue in the real satellite image. So, this paper proposes a method to enhance the contrast of the cloudy satellite image. The proposed method relies on modifying and integrating the closest spectral fit and genetic algorithm to remove clouds and to detect the number of edges as well as the contrast relative difference. This leads to ameliorate the contrast satellite images. Final experimental results of applying the proposed method on real images taken by LandSat8 show that it produce semi-natural looking images even if the image is cloudy.

References


Index Terms

Computer Science

Image Processing
Keywords

Contrast enhancement, satellite images, cloud removal.