A Review on Image Enhancement Methods

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Abstract

Image enhancement is very important in the field where visual appearance of an image is the main. Image enhancement is the process of improving the image in such a way that the resulting or output image is more suitable than the original image for specific task. With the help of image enhancement process the quality of image can be improved to get good quality images so that they can be clear for human perception or for the further analysis done by machines. Processing of satellite images is very much essential in the computer science research field. The image taken by satellites may be affected by many reasons such as climate, weather and other factors. Important information may not be clear because of blurred or not so clear images. Satellite images have complete information but may not visible, that information can be improved by image enhancement. Satellite images are used in many fields such as astronomy, geographical information system and geoscience studies. Image enhancement method enhances the quality, visual appearance, improves clarity of images, removes blurring and noise, increases contrast and reveals details. The aim of this paper is to study and determine limitations of the existing IE techniques. This paper will provide an overview of
different IE techniques commonly used.

References


**Index Terms**

Computer Science  
Image Processing

**Keywords**

Image enhancement, Histogram equalization, Discrete wavelet transform (DWT), Wavelet zero padding (WZP), Undecimated wavelet transform (UWT), Dual Tree-Complex Wavelet Transform (DT-CWT).