

ABSTRACT

Many considerable efforts for Image processing have been ongoing over the past few years, with the goal of improving the image resolutions and sensitivity. Despite its much advancement, it still has a problem in capturing large dynamic range images in low light or extremely low light situations. Images taken in low light surroundings regularly face with low dynamic range or coloration shift triggered by way of lack of illumination.

Low brightness, low contrast, a narrow grey range, color distortion and considerable noise are all common characteristics of images taken under bad lighting conditions, all of which have a significant impact on the subjective visual effect and hinder the effectiveness of various machine vision systems. The aim of low light image enhancement is to improve the visual impression of such images for future processing more efficiently.

In such prerequisites the image enhancement of low quality image is a simply tedious job. This work explains about the image enhancement process with the aid of having combination of Image Adjustment, Histogram Equalization and Adaptive Histogram Equalization algorithm alongside with Retinex algorithm in Image Processing.

This new combination of work enhances the luminance of low light stage images whilst preserving image contrast and details. The study about this work is similarly going on to find an approach so that greater accuracy can acquire in image enhancement.