



RESEARCH ARTICLE

Comparative Analysis and Implementation of Image Enhancement Techniques Using MATLAB

Er. Nancy¹, Er. Sumandeep Kaur²

¹Student, UCoE, Punjabi University, Patiala, India

²Assistant Professor, UCoE, Punjabi University, Patiala, India

Corresponding Author email: ¹ er.nancy1990@gmail.com

Abstract— Image Enhancement Is As Much An Art As It Is A Science.” Image enhancement is one of the key issues in high quality pictures such as digital cameras. The main purpose of image enhancement is to bring out detail that is hidden in an image or to increase contrast in a low contrast image. This technique provides a multitude of choices for improving the visual quality of images. This is the main reason that image enhancement is used in a huge number of applications with important challenges such as noise reduction, degradations, blurring etc. This paper will provide an overview of underlying concepts, along with algorithms commonly used for image enhancement. The paper focuses on spatial domain techniques for image enhancement, with particular reference to point processing methods and on spatial filtering.

Key Terms: - Digital Image Processing; Histogram; Image Enhancement; Image restoration; MSE; PSNR; Spatial and Frequency Domain

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