

## REVIEW OF HISTOGRAM BASED IMAGE CONTRAST ENHANCEMENT TECHNIQUES

UMESH KUMAR SHARMA<sup>1</sup> & KAPIL KUMAWAT<sup>2</sup>

<sup>1</sup>Research Scholar, SBCET, Jaipur, Rajasthan, India

<sup>2</sup>Associate Professor, SBCET, Jaipur, Rajasthan, India

### ABSTRACT

Image enhancement is a technique performed on a digital image in order to make it more appropriate for various applications. It is used to improve the visualization and the clarity of image or to make the original image more appropriate for computer processing. By contrast enhancement we change the intensity of pixels of an image to make it more useful for computer processing. We study and review the different image contrast enhancement techniques because during enhancing the contrast we losses the brightness of image. By considering this fact, the mixture of global and local contrast enhancement techniques may enhance the contrast of image with preserving its brightness. There are many image contrast enhancement techniques such as HE, BBHE, DSIHE, MHE, MMBEBHE, RMSHE, GHE LHE and IDBPHE. This paper focuses on the comparative study of contrast enhancement techniques with special reference to HE, MHE & IDBPHE techniques. These novel method will be used in many fields, such as medical image analysis, image processing, industrial X-ray image processing, microscopic imaging etc.

**KEYWORDS:** Image Enhancement, Histogram Equalization, Contrast Enhancement