**ABSTRACT**

In present era most of the information is exchanging with the help of images which leads to increase the popularity of the digital image processing. Image processing has various kinds of processing techniques like fusion, compression, segmentation and etc., Image Fusion is the process of integrating more than one Multi-Resoluted images and produces a single resulted fused image. The fused image is found to be more informative than all input images. Many authors used DCT-LP methods to obtain fused image and studied parametric analysis. A new method is proposed which focuses on DCT-MR with MDWT combination for producing fused image. SD, PSNR, PEF, SF are some of the most popular performance parameters for Image fusion. The proposed method may give good performance in terms of human visual and quality parameters.

Keywords: MDWT, DCTMR, Image Enhancement, DCTLP, Multiple Images