**A Histogram based Hybrid Approach for Medical Image Denoising using Wavelet and Curvelet Transforms**

**ABSTRACT**

Medical images are analyzed for the diagnosis of various diseases like cancer, tumor and fracture etc... But, they are susceptible to different types of noises called as Gaussian noise, Speckle noise, Uniform noise, Impulse noise, etc...Therefore it is an important task to remove the noise from medical images especially in MRI,CT, PET,SPECT, Digital Mammogram and Ultrasound images. Selection of appropriate filter is a tough task. In this paper, we propose a technique that uses Wavelet Transform and Curvelet Transform for denoising the medical images based on the Histogram equalization.

***Key Words*** Medical images, Speckle noise, Impulse noise, MRI, CT, PET, SPECT, Digital Mammogram, Ultrasound images, Wavelet Transform, Curvelet Transform and Histogram equalization