Abstract

The goal of image filtering is to remove the noise from the image in such a way that the "original" image is visible. Image filtering is a method by which we can enhance images. Image filtering methods are applied on images to remove the different types of noise that are either present in the image during capturing or injected into the image during transmission. Fuzzy Filter method for image de-noising based on Fuzzy set theory. This filter employs Fuzzy rules for deciding the gray level of a pixel within a window in the image. The Mean Filter is a linear filter which uses a mask over each pixel in the signal. Each of the components of the pixels which fall under the mask are averaged together to form a single pixel. This filter is also called as average filter. In these work Gaussian noise used and image filtering performed by fuzzy filter and mean filter. Further results have been compared for filters using Standard Deviation and Peak Signal to Noise Ratio.

References


Index Terms

Computer Science

Signal Processing

Keywords

Gaussian noise, Fuzzy Filter, Mean Filter Standard Deviation, Peak Signal to Noise Ratio.