Abstract

The edge detection is considered as a very significant technique in the field of Computer Vision. The term "edges" is used to define the boundaries between regions in a particular image, which supports with object segmentation and also in recognition of an object. In this paper authors focus a comparative study of edge detection techniques such as Sobel, Robert, Prewitt and impact of noise on it. The Experiment results find the edges of original image with the help of different type of edge detection technique such as Robert, Sobel and Prewitt and then we notice the quality of image with the help of PSNR, SNR, and Correlation Coefficient.
A Comparative Study of Edge Detection Techniques

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**Index Terms**

Computer Science  Image Processing
Keywords

Edge detection  Noise  PSNR  SNR  Correlation Coefficient.