

ANALYSING PSNR OF VARIOUS EDGE DETECTION MECHANISMS TO KNOW THEIR SENSITIVITY TO NOISE

Nitika

Deptt. Of Computer Engineering
Jan Nayak Choudhary Devi Lal Memorial College of
Engineering, Sirsa, India
nitika.kathuria003@gmail.com

MRS Vidhu Kiran (*Guide*)

Deptt. Of Computer Engineering
Jan Nayak Choudhary Devi Lal Memorial College of
Engineering, Sirsa, India
er.vidhudutt@gmail.com

Abstract: The Edges are boundaries between different textures. Edge also can be defined as discontinuities in image(picture) intensity from one pixel to another. edges for an image(picture) are always important feature that offer an indication for a higher frequency. Edge detection is an image(picture) processing technique for finding boundaries of objects within images. It works by detecting that discontinuities in brightness. Edge detection is used for image(picture) segmentation and data extraction in areas such as image(picture) processing, computer vision, and machine vision. Common edge detection algorithms include Prewitt, Roberts, Sobel, Canny methods.



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[I] INTRODUCTION

The points at which image (picture) brightness changes sharply are organized into a set of curved line segments termed *edges*. same problem of finding discontinuities in 1D signals is called step detection and problem of finding signal discontinuities over time is called change detection. Edge detection is a tool in image(picture) processing, particularly in areas of feature detection and feature extraction.

1. Edge information in an image(picture) is found by looking at relationship a pixel has with its neighborhoods.
2. When a pixel's gray-level value is similar to those around it, there is probably not edge at that point.
3. When a pixel's has neighbors with widely varying gray levels and it may present an edge point.

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