The Study Edge Detection of Medical Images using Transformation Techniques and Filteration Methods

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 146
Number 12

Year of Publication: 2016

Authors:
Harneet Kaur, Ishpreet Singh

10.5120/ijca2016910960

Abstract

Edge is an essential characteristic of an image. Edges can be defined as boundary between two different regions in an image. Edge detection refers to the progression of identify and locate sharp discontinuities in an image. Edge detection processes considerably reduce the quantity of data and filters out useless information, while preserving the essential structural property in an image. Because computer apparition involves the recognition and classification of objects in an image, edge detections is a vital tool. Edge is a basic and important feature of an image. Image is a combination of edges. Detecting edges is one of the mainly significant features in image segmentation. Edge detection is a vital step as it is a process of identifying and locates sharp dis-continuities in a representation. In this paper, the main intend is to swot edge detection process based on different techniques and most commonly used edge detection techniques such as Sobel, Prewitt, Roberts, Canny, and Laplacian Gaussian.

References


7. “Edge detection”, (Trucco, Chapt 4 AND Jain et al., Chapt 5).


**Index Terms**

Computer Science  
Image Processing

**Keywords**

Edge Detection, Filters, Process of detection process, canny and Sobel techniques.