Abstract

Mammography is a special case of CT scan who adopts X-ray method & uses the high resolution film so that it can detect well the tumors in the breast. Low radiation is the strength of this method. Mammography is especially used only in the breast tumor detection Mammogram breast cancer images have the ability to assist physicians in detecting disease caused by cells
normal growth. Developing algorithms and software to analyse these images may also assist physicians in there daily work. This study that shows the outcome of applying image processing threshold, edge based and watershed segmentation on mammogram breast cancer image and also presents a case study between them based on time consuming and simplicity. The real-time implementation of this paper can be implemented using data acquisition hardware and software interface with the mammography systems.

Reference

- Bajger, M.; Fei Ma; Williams, S.; Bottema, M.; “Mammographic mass detection with stastical region merging"on Digital image computing:Techniques & applications(DICTA) in 2010.
Breast Cancer Mass Detection in Mammograms using K-means and Fuzzy C-means Clustering

Index Terms

Computer Science

Medical Imaging

Key words

Image processing

CT scan

Low Radiation

Watershed

Image Segmentation

Data acquisition

Mammography

X-ray