Pre-Processing Algorithms on Digital Mammograms

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Abstract

Breast cancer is the greatest challenging health complexities that medical science is facing. Presently, there are no active methods to avert breast cancer, because its cause is not yet completely identified. Screening mammography is the available method that is currently used for reliable detection of breast cancer. Computer Aided diagnosis (CAD) techniques are used to enhance the diagnostic accuracy and efficiency of screening mammography. The sensitivity of mammogram decreases due to some factors like density of breast, presence of labels, and artifacts or even pectoral muscle. Therefore, the preprocessing of mammograms is a very significant step in breast cancer analysis and detection since it might reduce the number of false positive.

In this paper, several procedures have been performed for preprocessing including (noise reduction, separate the breast from the artifacts and pectoral muscle, mammogram alignment).

References

Index Terms

Computer Science Image Processing
Keywords

Digital Mammogram, Breast Cancer, Preprocessing