Abstract

An accurate and standardized technique for breast tumor segmentation is a critical step for monitoring and quantifying breast cancer. The fully automated tumor segmentation in mammograms presents many challenges related to characteristics of an image. In this paper, two different methods for mass detection are applied. First method uses morphological component analysis and multiple layer thresholding. Second method uses watershed segmentation. Features are extracted and the best one is found out for efficient identification of breast cancer.

References

diagnosis of breast cancer: Towards the detection of subtle signs, J. Franklin Inst.
- Prof. Samir Kumar Bandyopadhyay, &quot;Survey on Segmentation Methods for Locating Masses in a Mammogram Image,&quot; International Journal of Computer Applications, November 2010, Volume 9, No. 11.
Analysis of Tumor Characteristics based on MCA Decomposition and Watershed Segmentation


Index Terms

Computer Science

Pattern Recognition

Keywords

Breast Cancer  Morphological Component Analysis  Undecimated Wavelet Transform  Watershed Segmentation