IMPLEMENTATION OF CURVELET TRANSFORM ON DIGITAL MAMMOGRAM FOR HELPING BREAST CANCER IDENTIFICATION

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ABSTRACT

Mammogram analysis is needed at breast cancer identification process. One of the most important step on image analysis is image features extraction. At this experiment, curvelet transform is used at image features extraction process.

After decomposing the mammogram images in curvelet basis, a special set of the biggest coefficients is extracted as feature vector. The Euclidean distance is then used to calculate the distance of classifying image with class vector core.

The experimental results gave a 92.86% best classification accuracy rate. This indicates that curvelet transformation is a promising tool for analysis and classification of digital mammogram.

Keywords: implementation, curvelet, digital mammogram