Detection of Breast Cancer Masses in Mammographic Images on the Basis of Non Subsampled Contourlet Transform Algorithm (NSCT)

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Breast cancer is one of the most dangerous diseases in women. Breast screening in earlydiagnosis of breast cancer can reduce the mortality rate. Mammography is a standard method for early diagonosis of cancer. In this research, the process of breast cancer diagnosis is examined with a different approach. Our goal is to process breast images and to diagnose malignant and benign type with high precision. To do so a new algorithm is used to diagnose and classify breast cancer in digital mammography based on Contourleet transformation. The algorithm has three sections which include preprocessing, feature extraction and classification. In extracting features, several components of the image will e extracted and computed and in classification benign or malignant type of cancer will be studied.

Keywords : Key Words: The subsampled Contourlet Trans, noticeable or suspicious area, multi-directional filtering bank