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## The detection of breast's microcalcifications using the image processing technique

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Due to the increase in the number of mammograms performed in recent years it's still difficult for expert radiologists to provide accurate and consistent analyses. Over the past 20 years, diagnostic support tools have taken a remarkable place in the medical and research sector. Several research studies have been developed either to automatically detect deseases (micro-calcifications or masses) or to provide a second opinion about the lesion detected through computer-assisted diagnostic systems.

micro calcifications clusters in mammograms can be considered by early signs of breast cancer. However, their detection is conciderated as a very difficult task due to various factors such as :

- wide variety of breast composition
- breast anatomy with hight texture
- -impalpable size of micro calcifications in some cases
- low contrast in mammography.

In this paper, we work on the detection of breast's micros calcifications by using an image processing technique. We obtained satisfactory results, the proposed method was tested on the basis of MIAS breast cancer data

key-words: breast cancer, image processing, microcalcifications, detection, medical image

## **Topics**

Session D. Biomedical optics and sensors technology

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