

# A Colored CAD System for Breast Mammography

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## Abstract:

Breast Cancer is the most common and life threatening cancer among women. Mammography is the process of using low-energy X-rays to examine the human breast. It is one of the best examination procedures for early detection of breast cancer. Mammograms are the most difficult of radiological images to interpret since they are of low contrast. Radiologists typically diagnose breast abnormalities and indicate their regions from mammograms. Sometimes due to small masses or breast density radiologists may miss the suspicious regions, so the diagnosis can fail. Therefore, efforts in developing Computer Aided Detection/Diagnosis (CAD) algorithms for mammogram analysis will assist radiologist in images interpretation for accurate diagnosis and efficient detection of cancer cells in the earlier stages.

#### Biography:

Maha has her expertise and passion in improving the mammograms reading. Her algorithm creates new pathways for improving women healthcare and save their lives. She has developed this algorithm after years of experience in research, applied her algorithms on mammograms from sites for scientific researches and mammograms from hospitals. The algorithm is based on wavelet decomposition technique which is a powerful tool for image analysis. Email: mahaalmona@yahoo.com

## **Recent Publications:**

Pelin Gorgel, Ahmet Sertbas, and Osman N. Ucan, "Feature Extraction Based Wavelet. 2013



- Rajashekar K.R, "Detection and Classification of Tumors in a Digital Mammogram", (ICEDSP) 2012.
- Shengzhou Xu, Hong Liu, Xiangyang Xu, Enmin Song, and Jianye Zeng, "Bilateral Asymmetry Detection in Mammograms Using Non-rigid 2010
- Nizar Ben Hamad, Khaled Taouil, and Med Salim Bouhlel, "Mammographic February 2013.
- Somchanok Tivatansakul and Keiichi Uchimura, "Breast mass detection from mammography using iteration of gray-level co- occurrence matrix", 2016.

International Webinar on Oncology and Breast Cancer; September21, 2020; Dubai, UAE

Citation: Maha A.Elhady Almona ; A Colored CAD System for Breast Mammography; Breast Cancer 2020; September 21, 2020

Br J Res 2020 Volume: and Issue: S(7)