Helicopter view of a Thesis on The Simulation of the detection of Breast Cancer

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Abstract— This ia an overview of a thesis submitted by me in 2013.

Index Terms— Artifitail Intelligence, Learning, Optimization, Image processing, Laplacian Framework, Smoothing, Simulation.

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1 OVERVIEW

THIS is a 10000 foot view of the material presented in a Master thesis of computer science; The Thesis was accepted by the Seuz Canal University in 2016. The basic idea was to deform a female bust in the breast area to simulate a tumor. The so called tumor was placed in a region of four regions in the model breast to represent multiple ill patients. Smoothing by optimization was applied to the four models; There was two reasons to do that: the first was to try and make the patient model as real as possible, the second was generate parameterized variants of the four models to represent the data that will be used to train a neural network to learn how to distinguish between a person that has breast cancer from another that doesn't have breast cancer.

2 THESIS LINK

https://github.com/mskAuc/MasterThesis.git

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