

“LUNG CANCER DETECTION USING IMAGE PROCESSING TECHNIQUES”

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Abstract – As per the technical evolution and latest trend taken into consideration, we have decided to make research over biomedical term i.e. Lung cancer detection. Recently, image processing techniques are widely used in several medical areas for image improvement in earlier detection and treatment stages. There are various types of cancers i.e. lung cancer, Breast cancer, blood cancer, throat cancer, brain cancer, tongue cancer, mouth cancer etc. Lung cancer is a disease of abnormal cells multiplying and growing into a tumor. Cancer cells can be carried away from the lungs in blood, or lymph fluid that surrounds lung tissue. In this project we access cancer image into MATLAB collected from different hospitals where present work is going on and this available image was color image we have access that image into MATLAB and followed conversion. Image quality and accuracy is the core factors of this research, image quality assessment as well as improvement are depending on the enhancement stage where low pre-processing techniques is used based on Gabor filter within Gaussian rules. The segmentation and enhancement procedure is used to obtain the feature extraction of normal and abnormal image. Relying on general features, a normality comparison is made. In this research, the main detected features for accurate images comparison are pixels percentage and mask-labelling.

Key Words: Enhancement, Segmentation, Feature extraction, Binarization, Filtering etc.

1. INTRODUCTION –

Lung cancer is of disease of abnormal cells multiplying and growing into a tumor. Cancer cells can be carried away from the lungs in blood, or lymph fluid that surrounds lung tissue. Lymph flows through lymphatic vessels, which drain into lymph nodes located in the lungs and in the centre of the chest. Lung cancer often spreads toward the centre of the chest because the natural flow of lymph out of the lung is towards the centre of the chest. Metastasis occurs when a cancer cell leaves the site where it began and moves into a lymph node or to another part of the body through the blood streams. Cancer that starts in the lung is called a primary lung cancer. There are various types of lung cancer such as Carcinoma, Adenocarcinoma and Squamous cell carcinomas. The rank order of cancers for both males and females among Jordanians in 2008 indicated that were 356 cases of lung cancer accounting for (7.7%) of all newly diagnosed cancer cases in 2008. Lung cancer affected 297 (13.1%) males and 59 (2.5%) females with a male to female ratio of 5:1 with a lung cancer ranked second among males and 10th among

females. It consists of few stages. The first stage starts with taking a collection of CT images (normal and abnormal) from the available database from IMBA home. The second stage applies the several techniques of image enhancement, to get a best level of quality of clearness. The third stage applies image segmentation algorithms which play a effective role in image processing stages, and the fourth stage obtains the general features from enhanced segmented image which gives indicator of normality or abnormality of images. Lung cancer is the most dangerous and widespread cancer in the world according to stage of discovery of the cancer cells in the lungs, so the process early detection of the disease plays a very important and essential role to avoid the serious advance stages to reduce its percentage of distribution.

1.1 Objective

- (a) To study the medical image processing under the concepts of MATLAB
- (b) Enhancement of image using Gabor filter
- (c) Image segmentation using Marker-Controlled Watershed Segmentation Approach
- (d) Obtain the general features of the enhanced segmented image using Binarization.

1.2 Flow Chart

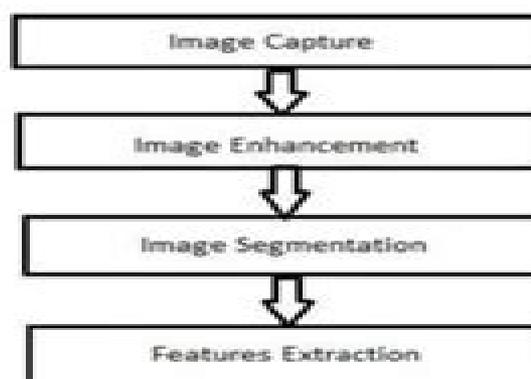


Figure 1.2 Lung cancer image processing Stages

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