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Invention Title	IMAGE PROCESSING BASED NOVEL APPROACH TO LUNG CANCER CLASSIFICATION AND FORECASTING
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Abstract:

The method for the development of the Lung cancer is a potentially fatal disease. Cancer identification remains a difficulty for medical practitioners. The exact cause of car and its comprehensive cure have yet to be found. Cancers that are detected early enough can be treated. Image processing procedures such as noise reduction, feature extraction, identification of damaged regions, and maybe a comparison with data on the medical history of lung cancer are utilized to find cancer-affected areas of the lun this day and age, lung cancer is the most commonly associated cancer after breast cancer. This malignancy has a lower survival rate compared to other malignancies. Lung screening can detect cancer at an early stage. The chances of recovery increase if the condition is detected and treated early. Computed Tomography (CT) is the most popu efficient method of lung cancer screening. A computer-assisted approach of recognizing and categorizing lung nodules within a series of CT pictures to determine which p of the CT images to explore for probable lung nodules. The lungs are processed to identify a sub region of a lung on a CT scan. FIG.1

Complete Specification

Description: IMAGE PROCESSING BASED NOVEL APPROACH TO LUNG CANCER CLASSIFICATION AND FORECASTING

Technical Field
[0001]   The embodiments herein generally relate to a method for image processing based novel approach to lung cancer classification and forecasting.
Description of the Related Art
[0002]   Lung cancer, one of the most dangerous varieties of the illness, claims the lives of around one million individuals annually. The present state of medicine makes vitally necessary to identify lung nodules in chest CT images. This is attributed to the growing prevalence of lung nodules. Cancer is a dangerous and widespread medical disorder that has received a great deal of attention during the last 50 years. As a result, the medical and scientific communities have made major and ongoing efforts to prevent cancer-related fatalities. While there are many distinct kinds of cancer, the most common cause of cancer-related fatalities in the US at the moment is lung cance which includes breast, lung, colon, prostate, and other cancers. Since lung tissue contains lymph fluid and blood vessels, cancer cells have a tendency to spread quickly. Cancer cells generally move to the center of the chest owing to normal lymph flow. The spread of cancer cells to different tissues is known as metastasis. Early detection crucial for cancer detection since the disease tends to spread and becomes incurable if it does.
[0003]   Advanced X-ray technology is used during a CT scan to take pictures of the human body from several perspectives. After that, the pictures are entered into a computer, which uses its processing power to create a cross-sectional picture of the body's interior organs and tissues. Early results from the Early Lung Cancer Action Project (ELCAP) baseline screening of one thousand patients showed that low dose computed tomography (CT) can detect four times more malignant lung nodules than

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