Abstract

Early detection and removal of pulmonary nodules significantly improves long term survival rates for patients with lung cancer. This paper provides the overview of different methods used in the retrieval system of lung nodules by a comprehensive review of existing literature. Firstly, the high level features of DICOM CT images are used for retrieval of filtered lung images from the database. The preprocessing step is used for separation of lungs fields on the filtered images. Linear Binary Pattern extracts the low level features from extracted lung areas to perform the segmentation. The technique of template matching further uses to retrieve the abnormal nodules from Lung data set.

References


- Kascic, E., NBIA - National Cancer Imaging Archive NCIA (version 4.0): The NCIs repository for DICOM-based images (https://cabig.nci.nih.gov/tools/NCIA)
Lung Nodule Retrieval System


Index Terms

Computer Science
Bio-medical Sciences

Keywords

DICOM CT scans  Lung Nodules  High Level Features  Low Level Features  LBP
Template Matching