

***Abstract: Classification of pulmonary Nodule from Low dose CT Scan Images using Neural Network***

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**Abstract**

Lungs nodule detection and classification is a very crucial step for computer aided diagnosis (CAD) systems. In this paper, we have proposed a CAD system that consists of multiple phases. In the first phase, Lungs segmentation has been performed. After that, region of interest ROI that contains nodule has been extracted. Different types of features have been extracted for nodule classification. Artificial Neural Network (ANN) has been used for classification. The technique was tested on the dataset Lungs Image Database Consortium LIDC and images taken from Aga Khan Medical University. The results confirm to the validity of technique as well as enhanced performance.

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