

Abstract

The timely diagnosis of lung cancer is crucial in the realm of preventive medicine. In this work deep neural network are exploited for this disease in real time clinical setting. A dataset of CT scans is used to train the deep neural networks including GoogLeNet, ResNet101 v2 and Vgg16. Transfer learning is exploited for discriminative and faster learning of high dimensional features. Multi classification was done to characterize lung disease in different classes. Adam optimizer was used for adaptive learning and back propagation of vital parameters. Results indicate an accuracy of % for GoogLeNet % for RestNet101 v2 and % forVgg16. Network was fund suitable in terms of its classification accuracy. This study validated the transfer learning for medical imaging dataset with less computational efforts.