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classification of benign and malignant lung tumor. The proposed architectures were examined on the LIDC database and cross checked with other classifiers result such as Artificial Neural Network Simulation result presents DCNN classifier achieves better performance.

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## ☰ Contents

### I. INTRODUCTION

Recent statistics from the world health institutions demonstrate that approximately 7.6 million people die every year in the world due to cancer. In regards, it is expected which cancer mortality will continue to rise to around 18 million worldwide in 2030. The main causes of death are Lung cancer mortality rate is counting for about 27% of all deaths from cancer [2]. The death of the lung cancer patients' numbers is more than that of breast cancer. Due to lack of literacy towards lung cancer, the possibility of detecting the disease is harder at the early stage. In other words, at the time of detection, already the disease reach to its advance stage [3]. The stages of lung cancer can be classified as first and second stage. The First stage refers to tumor presents only in limited area and the second stage is tumors that expand over to various body parts. Deep learning algorithms, especially DCNN, have rapidly become a popular methodology for processing medical images as well, including detection of medical problems, Feature Extraction, segmentation, and classification.

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