ABSTRACT

The primary checking for our health at hospital needs to include a chest x-ray as routine diagnosis because it effectively illustrates the lung diseases especially tuberculosis or lung cancer which are asymptomatic earlier. It is a convenient and quick process with a low cost in comparison with other studies. This paper presents an analysis and integration of the radiographs of lung from the chest x-ray. The selected images of lungs are depicted by the use of an active contour (e.g. snake algorithm) to find two regions of lungs (left and right). Then, such two regions of lungs are represented for two histograms which are profiles of two lung patterns (left and right) by fix 25 points from the graph histogram. Such two histograms are compared for normal and abnormal lungs to demonstrate the difference of both lung radiographs. If two histograms are not very different, then the result is a normal case. However, if they are very different, then it is an abnormal case. For the experimental result, the overall accuracy is at approximately 100% which there are 60 samples of patients for testing their lung images.