

Classification of Lung Diseases Using Decision Tree Algorithm (C4.5)

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Abstract

Nowadays, it is increasing usage of data mining techniques on medical data for discovering useful trends and patterns that are used in diagnosis and decision making. Decision Tree is one of the successful data mining techniques used for predicting medical diagnosis. Human experts in medical field are frequently in great demand. Health care system giving health information may help whether the patient's symptom is serious or not. In this paper, C4.5 algorithm is used to classify the lung diseases in the implementation of health care system. The dataset used in this system is the lung diseases dataset containing 3601 training data records. Accuracy comparison with other decision tree algorithms such as ID3 and CART has been implemented. Among these algorithms, C4.5 gives better accuracy than ID3 and CART on lung diseases dataset.