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**Abstract**

Data mining techniques provides a new direction to extract information from the massive databases. Popular data mining techniques are clustering, classification, association analysis, regression, summarization, time series analysis and sequence analysis, etc. Classification technique is one of the most conventional and popular data mining techniques which are used to classify the data and extract the information. In this research work, breast tissue dataset is used for performing classification task. This classification task helps to classify the data set into six classes which gives the breast tissue type. In this work we converse about three different classifiers such as Naive Bayes, IBK (Instance Based K- Nearest Neighbour) and J48 to process the Breast Tissue dataset and recognize the significance classification of test data using WEKA (Waikato Environment for Knowledge Analysis) tool. Classification accuracy, error rate and execution time are used in this comparative analysis. From the results, it is observed that the J48 algorithm efficiency is better than other algorithms.

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***Keywords***

*Data Mining, Classification, J48.*