Abstract

The proposed method deals with the detection of brain tumor in the CT scan brain images. The preprocessing technique applied on the images eliminates the inconsistent data from the CT scan brain images. Then feature extraction process is applied to extract the features from the brain images. A Novel Fuzzy Association Rule Mining (NFARM) applied on the image transaction database which contains the features that are extracted from the CT scan brain images. A new test image has been tested with the mined (NFARM) rules. The proposed NFARM gives the diagnosis keywords to physicians for making a better diagnosis system. The
experimental results of the proposed method gives better performance compared to the traditional Fuzzy Apriori algorithm.

Reference

Multimedia Data Mining (MDM/KDD’ 2001)
  - [19] Tiawei Han and Micheline Kamber.: Data Mining Concepts & techniques.: Morgan Kaufmann,2001

**Index Terms**

Computer Science  
Decision Support  

System

**Key words**

Novel Fuzzy Association Rule Mining (NFARM)

classification

Pre processing

Feature Extraction

medical imaging

image mining

data mining