Abstract

The incidence of brain tumors is increasing rapidly particularly in the young generation. Tumors can directly destroy all healthy brain cells. Manual (Physical) classification can cause human error. Automatic classification method is required because it reduces the load on the human observer, accuracy is not affected due to large number of images. This paper elaborates attempt to detection & classification of tumor in benign stage. The proposed method consists of two stages namely feature extraction and classification. In the first stage, obtained the features related to MRI images using Gray Level Co-occurrence Matrix (GLCM) based methods, this is one of the tools for extracting texture features and second stage, the classifier is classified images using K-nearest neighbour (K-NN) classifier.

References

Detection and Classification of Brain Tumors

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Index Terms

Computer Science

Image Processing
**Keywords**  
MRI Images  
Image Pre-processing using Gaussian filter  
Tumor segmentation  
Feature Extraction  
Gray Level Co-occurrence Matrix (GLCM)  
K-NN (Supervised classification).