Abstract

This paper talks about image segmentation which can be attained through different ways such as water shed and contours, thresholding, region growing. In image classification, an image is classified according to its visual content. This paper also discuss how to extract information about the tumor, then in the first level i.e. pre-processing level, the parts which are outside the skull and don’t have any information are removed and then anisotropic diffusion filter is applied to the MRI images in order to remove the noise. In this paper we have tried to explain how by applying the algorithm, the tumor area is displayed on the MRI image and the central part is selected as sample points for training. Then Support Vector Machine classifies the boundary and extracts the tumor.
References


- M. Madheswaran And D. Anto Sahaya Dhas, “Classification of Brain MRI Images Using Support Vector Machine With Various Kernels.”

- P Rajendran, M Madheswaran, “Hybrid Medical Image Classification Using Association Rule Mining With Decision Tree Algorithm.”

- R. S. RajKumar and G. Niranjana, “Image Segmentation and Classification of MRI Brain Tumor Based on Cellular Automata and Neural Networks.”

- Ruchi D. Deshmukh and Prof. Chaya Jadhav, “Study of Different Brain Tumor MRI Image Segmentation Techniques.”


Index Terms

Computer Science

Bio Medical

Keywords

Thresholding Mri Images Svm Classifier