Abstract

Image processing has covered a significant area in medical science. Medical image processing is currently very popular for the effectiveness of image processing in medical imaging especially on MR image based task. But it is not so easy. Medical image processing is a challenging task. Wrong decision may cause to great harm to the people. MR images are often used to diagnose and analyze brain tumor. This paper represents a new way for detecting tumor in the brain. This proposed methodology is supported by color information. YCbCr color model is employed for this purpose. Input image is transformed into YCbCr. The segmentation is mainly done by gathering information of Y component. Color based thresholding is performed to segment the image. A morphological action is employed to make the image fine. Then the image is filtered with area. Finally, calculated metric value for each object. Highest metric value refers to the tumor object.


Index Terms

Computer Science          Image Processing

Keywords

Metric value; YCbCr; morphological closing