Abstract

This paper presents an efficient detection method to highlight the tumors present in brain images. The obtained results further help in finding the size and location of the tumor. The method is applied on brain images having tumors. Using region-growing method we merge the adjacent detected pixels on homogeneity criteria, to obtain the flaws. Region growing starts with seed(s). The seed value is determined with the help of histogram analysis. The peaks and valleys of histogram help in determining the seed value. The developed algorithm is explained and applied on the welding images and some preliminary results are shown which are found encouraging.

References

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Index Terms

Computer Science

Image Processing

Keywords
Image segmentation, region growing, tumor detection, seed, and homogeneity