Abstract

Image processing is a computational method for various reconstructing process used in the images. Segmentation refers to the procedure of splitting a digital image into many segments. Medical imaging is the system and development used to create imagery of the human body for clinical purposes or medical science. Image gradient is a function which is used to take information from images. A watershed transform is a basin-like landform plain by highpoints
and ridgelines that fall into lower elevation and waterway valley and it is used to perform some morphological operations. Purpose of this work is segmenting the medical image using marker controlled watershed segmentation, and comparing the results of directly applying watershed transformation and marker controlled watershed transformation.

References

- Brijesh shah1, jigar modh2 and satish shah3, A Modified Marker Controlled Watershed Algorithm with Linear Convolution for Medical Image Segmentation; International Journal of Computational Engineering Research / ISSN: 2250–3005.
- Ahmad el allaoui1 and M'barek Nasri1, Medical Image Segmentation by Marker Controlled Watershed and Mathematical Morphology; the International Journal of Multimedia & Its Applications (IJMA) Vol. 4, No. 3, June 2012.
- Imdad Rizvi, B K Mohan, Wavelet Based Marker-Controlled Watershed

Index Terms

Computer Science  Image Processing

Keywords

Images  Medical Image  Segmentation  Watershed Transform