Abstract

Segmentation techniques in the medical field are used to segment anatomical structures or other region of interest from medical images obtained from different modalities. This paper deals with segmentation techniques like manual thresholding, Otsu thresholding, watershed, traditional active contours and growcut in X-ray modality, for segmenting the tibia bone. This paper analyzes the performance of these algorithms on a database of 48 clinical X-ray images. The images have been obtained from different X-ray machines and vary in their resolution and dimensions. The performance of the algorithms have been measured and validated empirically.

References

Tibia Bone Segmentation in X-ray Images - A Comparative Analysis


Index Terms

Computer Science
Image Processing

Keywords

X-ray  tibia bone  segmentation  growcut  validation.