
Subject: Image Segmentation

Posted by [praveshsubramanian](#) on Wed, 24 Nov 2004 21:52:56 GMT

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Hello All:

The edge detection operators, robert and sobel dont seem to work too fine for me. I am working with MRI images of human body and the problem is that the regions (and of course, their boundaries) in the images dont really stand out. As a result, if i use region-grow, inevitably there is a leakage into some other region.

this problem is inherent as the human tissues are really not distributed in an orderly manner. Filtering : tried all of them! they all modify properties of the image (such as the number of pixels belonging to intensity ranges).

the idea is to work on the raw image and get data out of it (smoothing et al simply change the image properties). but it seems that we need proper edge detection.

i think region_grow routine using thresholding works, but not for all images for the same reason cited above. standard dev. multiplier is way too aberrant, sometimes it simply covers the entire image instead of a region.

What options does that leave me for? hm... either i write my own routine using hints from u all.. or figure out a way using IDL routines..

the idea is simply click on one region and only pixels from that region get highlighted. the standard deviation of the pixel intensities is around 80.
(magic!!!)

does someone have a magic wand???

Regards

PRavesh
