
Subject: Re: Image outline

Posted by [David Fanning](#) on Wed, 29 May 2002 21:18:19 GMT

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Akhila (idlfreak@yahoo.com) writes:

> I have an image of a vertebra. The image is posted in the link below:
>
> www.geocities.com/r_akhila/final.tif
>
> I have been trying to get a good single pixel wide contour of the
> vertebra from the image. I tried different methods like edge
> detection, thresholding, erosion, dilation and thinning. I still did
> not get a good one. Can anybody please suggest some techniques that
> will be helpful to obtain a contour of the image. Please help me.

I have a little routine named FIND_BOUNDARY that I wrote based on some code sent to me by Richard Adams and written by his graduate student Guy Blanchard. The idea is to find a one pixel wide boundary around a region of interest given by a set of indices.

http://www.dfanning.com/misc/find_boundary.pro

It happens to work particularly well with your image.
I did this:

```
image = Read_Tiff('final.tif')
s = Size(image, /Dimensions)
indices = Where(image GT 0)
pts = Find_Boundary(indices, XSize=s[0], YSize=s[1])
Window, XSize=s[0], YSize=s[1]
PLOTS, pts, /Device
```

Cheers,

David

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