
Subject: Three questions

Posted by [biomedical](#) on Tue, 07 Apr 1998 07:00:00 GMT

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Three questions:

- 1: what is 'sharp' function to images, or 'sharpening'?
what is 'unsharp' ? how to do them in IDL?
- 2: how to read 1-bit Tiff (mono) file?
- 3: how to do the Matlab image processing, please take a look at:
<http://www.mathworks.com/demos/toolbox/image/ipss0011.html>
how to removes the minor regions, skeletonize, ...

Thanks, please do NOT send me emails, just post here.

Chester

Subject: Re: Three questions

Posted by [biomedical](#) on Fri, 10 Apr 1998 07:00:00 GMT

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Thanks a lot for your help. It's really a great help

My purpose is to do the auto segmentation of the medical images, you must have a lot of experience. The original images are not binary, they are all kinds of medical image formats, some are color photos (for wound healing). I want to output the auto-segmentation results in either ROI(lines connected by points) or binary tiff images (encoded by run-length).

Thanks again

muswick@uhrad.com wrote:

- >
 - > TIFF images. Are your images already binary? or are they half-tone
 - > representations?
 - >
 - > Good Luck
 - >
 - > Gary Muswick
 - > Image Analysis
 - > University Hospitals of Cleveland
 - > muswick@uhrad.com
 - >
 - > ===== Posted via Deja News, The Leader in Internet Discussion =====
 - > <http://www.dejanews.com/> Now offering spam-free web-based newsreading
-

Subject: Re: Three questions
Posted by [David Foster](#) on Mon, 13 Apr 1998 07:00:00 GMT
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biomedical wrote:

>
> Thanks a lot for your help. It's really a great help
>
> My purpose is to do the auto segmentation of the medical images,
> you must have a lot of experience. The original images are not binary,
> they are all kinds of medical image formats, some are color photos (for
> wound healing). I want to output the auto-segmentation results in
> either ROI(lines connected by points) or binary tiff images (
> encoded by run-length).

If you're working with medical images you might want to check out
my library of functions/programs available at:

`ftp://bial8.ucsd.edu pub/software/idl/share`

The README file lists the files with short descriptions. There should
be routines you could use. Also, we do semi-automated segmentation
of brain MRI scans, using a regression analysis which is seeded
with samples chosen by the user. If you want, email me and I can
send you more info on our technique.

I would recommend saving the segmentation results as either:

- 1) ROI: list of indices into array; this will allow
faster access than a list of vertices or lines would.
- 2) GIF images

Note that you can use POLYFILLV() with the RUN_LENGTH keyword to
return the indices of a polygon in run-length form.

Dave

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