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

David S. Foster Univ. of California, San Diego Programmer/Analyst Brain Image Analysis Laboratory foster@bial1.ucsd.edu Department of Psychiatry (619) 622-5892 8950 Via La Jolla Drive, Suite 2240 La Jolla, CA 92037