Subject: Re: Joining Multiple Vectors from the Thin Function Posted by Jean H. on Tue, 12 Aug 2008 18:53:49 GMT

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mzagursk@gmail.com wrote:

> Hi All,

>

- > This problem is a bit complex so I'll try to spell it out as best I
- > can. IDL's THIN() function finds the medial axis of a shape. In my
- > case, this medial axis is akin to the ridge of a mountain. The output
- > of the THIN function is an array of the same dimensions as the image
- > with all values set to 0 except: If the point is on the medial axis,
- > it has a value of '3'. If the point is on the medial axis and is an
- > endpoint, it has a value of 2. I need to find a way to extract (in
- > order) the ridge data. This task is further complicated because the
- > THIN function does not output just one medial axis. Instead, it
- > outputs 'segments' if there is a kink in the shape. So, you end up
- > with a complex structure of line segments. What I need to do is put
- > these segments in order from one endpoint to the other endpoint of the
- > ridge. Any ideas?

>

> Hope I explained well enough!

Hi,

several ideas come to mind...

- 1) use label_region
- 2) use search_2D ,starting with points of value 2. Then break the indices at the location of the points of value 2.
- 3) depending on the size of your image, find the relative coordinates of the cells in the Moore neighborhood of cells 0;0 (that is, neighb = central cell idx sizeX -1; central idx sizeX, central idx sizeX + 1; central idx -1; central idx +1 etc). Then, on your own, start (repetitively), from each point of value 2 and look for adjacent cells of value 3.

Jean