Subject: Re: Edge detection and convert edges into polygons Posted by David Fanning on Fri, 01 Aug 2008 15:06:54 GMT

View Forum Message <> Reply to Message

M. Suklitsch writes:

- > I need some hint on how to convert edges into vertices. What I want to
- > do in the end is check whether a station (of which I have lon/lat
- > values) lies within such a vertex.

>

- > To be more precise: I have a netCDF file with three fields. longitude,
- > latitude and mask, where mask has integer values and defines
- > subregions. In this mask "image" I want to detect the edges, what I
- > already got working using the tips on http://www.dfanning.com/ip_tips/sharpen.html.

>

- > These edges I want to convert into vertices which I then put in an
- > IDLanROI object. Using this object I could then very easily check if a
- > station given by its longitude and latitude lies within a region or
- > not.

I think I would just work with the integer mask and find the boundaries around the sub-regions:

http://www.dfanning.com/ip_tips/boundary.html

You can use the boundary directly to create an IDLanROI object, or (probably a good idea) you can reduce the number of vertices in the boundary with MESH_DECIMATE first.

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")