Subject: Re: Raster to Vector outlines- Classification Image
Posted by David Fanning on Sat, 23 Jan 2010 15:07:49 GMT
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Robin Wilson writes:

> I've got a classification image consisting of various polygons, each of
> a different value (integers, from 1 to about 59,000!). I'd like to
> display all of the boundaries of these polygons on the image, either in
> an EVF file or just as an ROI with pixels for each of the boundaries so
> I can overlay it on the image.
>
> I've tried using RTV_DOIT, but that extracts each boundary to a separate
> EVF file. I've written a routine to stitch together all these EVF files,
> but the creation of 1000 of the EVF files using RTV_DOIT takes quite a
> while - and the 59,000 polygons I have is only for a small image!
>
> Does anyone know of any better way to do this? It can be using an ENVI
> procedure or a built-in IDL function, or a simple way to write some IDL
> code to do this.

I've done some "blob" analysis before and I've discovered
there are fast ways and there are slow ways. The fast ways,
naturally, involve a histogram. You may find some ideas
about how to solve your problem by reading some of these
articles. I'd probably start with this one:

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

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.")

Subject: Re: Raster to Vector outlines- Classification Image
Posted by Mort Canty on Sat, 23 Jan 2010 19:05:40 GMT
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Am 23.01.2010 15:50, schrieb Robin Wilson:
> Hi,

>
> I've got a classification image consisting of various polygons, each of
> a different value (integers, from 1 to about 59,000!). I'd like to
> display all of the boundaries of these polygons on the image, either in
> an EVF file or just as an ROI with pixels for each of the boundaries so
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> while - and the 59,000 polygons I have is only for a small image!
>
> Does anyone know of any better way to do this? It can be using an ENVI
> procedure or a built-in IDL function, or a simple way to write some IDL
> code to do this.
>
> Best regards,
>
> Robin Wilson
> University of Southampton

You can try this:

```
boundaries = classimage*0
boundaries[where( (classimage-shift(classimage,1,0) ne 0) $
        or (classimage-shift(classimage,0,1) ne 0) )] = 1
```

Mort
