Subject: RTV_DOIT to EVF
Posted by ilya85parshakov on Thu, 12 Sep 2013 22:24:03 GMT
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I'm trying to automatically create training areas for the SVM classifier in ENVI.
I have a raster image that shows where training areas should be - something like a mask.

Then I use ENVI_DOIT to create a vector file from this file:
ENVI_DOIT, 'RTV_DOIT', DIMS=dims, FID=fid, /IN_MEMORY, OUT_NAME=out_name,
L_NAME=l_name, POS=0, VALUES=0

This gives me a vector file that is not in the EVF format, so I cannot open it in IDL. And it doesn't generate a file ID for the created file (no r_fid functionality).

My next step would be to use envi_evf_define_init and envi_evf_define_add_record to add the vector data. After that I need to convert the evf file into ROIs somehow....

Question 1: How do you read whatever ENVI_DOIT produces?

Question 2: Is there an easier way to do SVM classification, maybe without generating vector files?

Subject: Re: RTV_DOIT to EVF
Posted by ilya85parshakov on Mon, 16 Sep 2013 21:30:53 GMT
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In other words, is it possible to save RTV_DOIT output to disk as an evf file?

Subject: Re: RTV_DOIT to EVF
Posted by Josh Sixsmith on Tue, 17 Sep 2013 12:56:57 GMT
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On Tuesday, 17 September 2013 07:30:53 UTC+10, ilya85p...@gmail.com wrote:
> In other words, is it possible to save RTV_DOIT output to disk as an evf file?

I'm pretty sure that evf is the only format that the RTV_DOIT procedure outputs to disk. Your call to this procedure may not actually be correct, which maybe causing your evf file to not be generated correctly.

From your example:
ENVI_DOIT, 'RTV_DOIT', DIMS=dims, FID=fid, /IN_MEMORY, OUT_NAME=out_name,
L_NAME=l_name, POS=0, VALUES=0

Only the value of zero in your raster will be converted to vector. The keywords in_memory, outname, l_name, pos & values all need to be arrays of the same length.

So for your case only the value of zero is wanted for conversion to vector:
pos =[0]
values=[0]
in_memory=lonarr(0)
out_name = ['test_zero_value.evf']
l_name = ['zero_class']

That is probably what you're after.

Cheers
Josh
