
Subject: Gram-Schmidt transformation

Posted by skymaxwell@gmail.com on Thu, 04 Jan 2007 15:26:47 GMT

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how to use ENVI_GS_SHARPEN_DOIT procedure ?

my IDL code not make any result file. But there no mistakes in compilation and during running

```
...
ENVI_OPEN_FILE,file_Src_Mul,R_FID=fid_Src_Mul
ENVI_OPEN_FILE,file_Src_Pan,R_FID=fid_Src_Pan
...
ENVI_FILE_QUERY,fid_Src_Pan,NS=f_ns_pan,NL=f_nl_pan,DIMS=pan_dims
ENVI_FILE_QUERY,fid_Src_Mul,NS=f_ns_mul,NL=f_nl_mul,DIMS=mul_dims,POS=pos_mul

hi_res_dims=[-1L,0,f_ns_pan-1,0,f_nl_pan-1]

ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',fid=fid_Src_Mul,HIRES_FID=fid_Src_Pan,$
  INTERP=0,LORES_FID=fid_Src_Mul,fid_Src_Mul,fid_Src_Mul],METHOD=0,$
OUT_NAME='C:\test.img'
```

Thanks

Subject: Re: Gram-Schmidt transformation

Posted by skymaxwell@gmail.com on Fri, 05 Jan 2007 14:47:11 GMT

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Hello

Here is all my GS transformation code.

```
ENVI_OPEN_FILE,file_Src_Mul,R_FID=fid_Src_Mul
IF (fid_Src_Mul eq -1) THEN BEGIN
  PRINT,"Error1"
  RETURN
ENDIF
ENVI_OPEN_FILE,file_Src_Pan,R_FID=fid_Src_Pan
IF (fid_Src_Pan eq -1) THEN BEGIN
  PRINT,"Error2"
  RETURN
ENDIF
```

```
outputDir=FILE_DIRNAME(mulDir)+'\GS_Pan'
FILE_MKDIR,outputDir
```

```
ENVI_FILE_QUERY,fid_Src_Pan,NS=f_ns_pan,NL=f_nl_pan,DIMS=pan_dims
ENVI_FILE_QUERY,fid_Src_Mul,NS=f_ns_mul,NL=f_nl_mul,DIMS=mul_dims,POS=pos_mul
; now i try use method=1
ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',DIMS=mul_dims,METHOD=1,OUT_
NAME='D:\test.img',INTERP=0,$
HIRES_FID=fid_Src_Pan,$
LORES_FID=fid_Src_Mul,LORES_POS=pos_mul,LORES_DIMS=mul_dims
```

Subject: Re: Gram-Schmidt transformation
Posted by [Mort Canty](#) on Fri, 05 Jan 2007 18:06:14 GMT
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skymaxwell@gmail.com schrieb:

```
> Hello
> Here is all my GS transformation code.
>
> ENVI_OPEN_FILE,file_Src_Mul,R_FID=fid_Src_Mul
> IF (fid_Src_Mul eq -1) THEN BEGIN
>   PRINT,"Error1"
>   RETURN
> ENDIF
> ENVI_OPEN_FILE,file_Src_Pan,R_FID=fid_Src_Pan
> IF (fid_Src_Pan eq -1) THEN BEGIN
>   PRINT,"Error2"
>   RETURN
> ENDIF
>
> outputDir=FILE_DIRNAME(mulDir)+'\GS_Pan'
> FILE_MKDIR,outputDir
>
> ENVI_FILE_QUERY,fid_Src_Pan,NS=f_ns_pan,NL=f_nl_pan,DIMS=pan_dims
> ENVI_FILE_QUERY,fid_Src_Mul,NS=f_ns_mul,NL=f_nl_mul,DIMS=mul_dims,POS=pos_mul
> ; now i try use method=1
> ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',DIMS=mul_dims,METHOD=1,OUT_
NAME='D:\test.img',INTERP=0,$
> HIRES_FID=fid_Src_Pan,$
> LORES_FID=fid_Src_Mul,LORES_POS=pos_mul,LORES_DIMS=mul_dims
>
```

You are missing some essential keywords. Here is a modified version of your code which works OK for me (uses METHOD=0). I used ENVI_SELECT because my pan images are too large to be read in in one chunk. You can modify the code to get back to what you want. But watch the keywords!!

-Mort

```
; get MS image
envi_select, title='Select MS input bands', $
          fid=fid_src_mul,dims=mul_dims,pos=pos_mul

; get PAN image
envi_select, title='Select panchromatic image', $
          fid=fid_src_pan,dims=pan_dims

ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',FID=fid_src_mul, $
          DIMS=mul_dims, $
          POS=pos_mul, $
          METHOD=0, $
          OUT_NAME='D:\temp\test.img', $
          INTERP=0,$
          HIRES_FID=fid_Src_Pan, $
          HIRES_DIMS=pan_dims

end
```

Subject: Re: Gram-Schmidt transformation
Posted by skymaxwell@gmail.com on Fri, 05 Jan 2007 19:44:10 GMT
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Thanks i find another mistake in my code by your code
seems keyword POS not supported by ENVI_FILE_QUERY
now it's work
thanks

Subject: Re: Gram-Schmidt transformation
Posted by [David Fanning](#) on Fri, 05 Jan 2007 20:01:57 GMT
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skymaxwell@gmail.com writes:

```
> Thanks i find another mistake in my code by your code
> seems keyword POS not supported by ENVI_FILE_QUERY
> now it's work
```

Si, ese es el significado de las palabras "check your keywords". :-)

Saludo,

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.")
