
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
