
Subject: ENVI_DOIT, 'MNF_DOIT' from previous noise statistics?

Posted by [mat.g.allan](#) on Sun, 26 Jun 2016 23:39:50 GMT

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Hi Guys,

I'm trying to to a forward mnf from previous noise statistics within IDL.

See the code below. The resulting image is not right, as in I do not get the same result as when I do it through the GUI using the previous noise statistics option. If you know how to do it with the new ENVI api that would be great too.

pro pca

```
ENVI, /RESTORE_BASE_SAVE_FILES
ENVI_BATCH_INIT, LOG_FILE='batch.txt'
```

```
flist=FILE_SEARCH('*image.img', COUNT=count)
```

```
FOR h=0, count-1 DO BEGIN
```

```
    envi_open_file, flist[h], r_fid=fid
    ENVI_FILE_QUERY, fid, dims=dims, nb=nb
    pos = lindgen(nb)
```

```
out_name='idlmnf1.img'
```

```
ENVI_DOIT, 'ENVI_STATS_DOIT', $
  FID = fid, POS = pos, DIMS = dims, $
  MEAN = avg, EVAL = eval, EVEC = evec, $
  COMP_FLAG = 5
```

```
; this is how PCA does it
```

```
::
;ENVI_DOIT, 'PC_ROTATE', $
;  FID = fid, POS = pos, DIMS = dims, $
;  MEAN = avg, EVAL = eval, EVEC = evec, $
;  OUT_DT = 4, OUT_NAME = out_name, $
;  OUT_NB = nb, R_FID = r_fid, $
;  /FORWARD, /NO_PLOT
```

```
nsta='nsta'
sta='stamnfidltest'
```

```
; I don't think I have done this right here, but the code runs
```

```
ENVI_DOIT, 'MNF_DOIT', DIMS=dims, FID=fid, NOISE_EVAL=eval, $  
NOISE_EVEC=evec, $  
NOISE_STA_NAME=nsta, OUT_NAME=out_name, POS=pos, $  
R_FID=rfid, STA_NAME=sta, in_memory=0, shift_diff=0, sd_dims=dims
```

```
endfor
```

```
end
```
