Subject: Column vector matrix creation from PC image
Posted by Lavanya on Wed, 22 Jun 2011 11:05:14 GMT
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Hi,

I am trying to create a column vector of the form

E = [[1, 1, 1, ...1], [e1,e2, ... ep], ...[e1(n),
e2(n)....ep(n)]]

where the first row values are one, p user input values. Now i need to
fill the matrix with random values that are obtained from an PC
image.

Here is the code for reference:

```
covMatrix = Correlate(image11, /COVARIANCE, /DOUBLE)
 eigenvalues = EIGENQL(covMatrix, EIGENVECTORS=eigenvectors, /DOUBLE)
 Print, eigenvalues
 Print, 'First Component (%): ', eigenvalues[0]/Total(eigenvalues)*100

for i=0, bands-1 do begin;
  pc = eigenvectors ## Transpose(image11)
  pc1[*,*,i] = Reform(pc[*,i], rows, cols)
;  pc1[*,*,i] = Reform(temporary(pc[*,i]), dims[0], dims[1],4)
endfor

p = 30

TestMatrix = fltarr(p,p)
TestMatrix(*,0) = 1
idx1 = fltarr(1,p)
;data = pc(*,p-1)

for i=0,p-1 do begin
  seed = 100L
  idx = floor(randomu(seed,p)) + 1
  TestMatrix(1:p,*) = pc(idx,*)                    ; error at
this place
  idx1(i) = idx;
endfor
```

Finally, i need to construct TestMatrix