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Subject: Re: Apply function to bunch of images and save answer and read ...in text files??

Posted by [Vince Hradil](#) on Fri, 18 May 2007 15:03:31 GMT

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On May 18, 9:44 am, "rpert...@gmail.com" <rpert...@gmail.com> wrote:

> Hi,  
> This is fairly an easy problem that I unfortunately do not know the  
> answer to. So here goes:  
>  
> I have a bunch of images. 6 sets of 10 repeated images. I need to  
> calculate the mean and variance of 1 pixel in each set and plot them.  
> I know how to read each pixel and obtain mean and variance. The  
> question I have is handling all these files as they are separate. I  
> have right now, calculated my mean and variance and saved them in a  
> separate folder as .sav file for each set. Then I am trying to find  
> all .sav files in that folder and restore them to be able to plot  
> them. There's the hic. Restoring does not work, and I am pretty sure,  
> I should not be saving as .sav, but not sure how else to save and  
> retrieve this data.  
> Any thoughts?  
> Thanks,  
> rp

Let's see. First off the mean and variance of one pixel is going to be pretty trivial...

But kidding aside, I guess you mean the mean and variance across the 10 replicates for each of the 6 sets, separately. How about this:

```
<begin psuedo-code>
mean_image = array(nx,ny)
var_image = array(nx,ny)
iset = array(nx,ny,10)
for s=0, 5 do
  for r=0, 9 iset[* ,*,r] <- image[s,r]
  for jj=0, ny-1 do
    for ii=0, nx-1 do
      mean_image[ii,jj,s] = mean(iset[ii,jj,*],sdev=sdval)
      var_image[ii,jj,s] = sdval*sdval
    endfor
  endfor
  write mean_image ; as bmp, jpeg, png, raw (i.e. writeu)
  write var_image
endfor
<end>
```

Cheers!

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