
Subject: Re: Extracting average pixel value
Posted by [GP](#) on Mon, 04 May 2009 07:46:34 GMT
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On Apr 24, 2:53 am, James Kuyper <jameskuy...@verizon.net> wrote:
> Bennett wrote:
>> On Apr 23, 1:00 pm, Bennett <juggernaut...@gmail.com> wrote:
> ...
>>> In IDL you can do a
>>> newArray = CONVOL(imageArray, [[1,1,1],[1,0,1],[1,1,1]], /CENTER)
>>> This will compute the average value in a 3x3 box around each pixel
>>> (except
>>> the edge pixels which you can set to zero or truncate or handle
>>> separately...
>>> whatever you please really. Who needs edges anyway, right?)
>
>>> Bennett
>
>> I forgot to say also divide your resulting newArray by 8.
>
> Alternatively, you could divide the array of weighting factors by 8.

What do you think about this ENVI-approach to extract an average window (profiled)

Once I open the stacked file (24 stacked layers) and get the id
lfile_id

```
...  
arrayAvgYear = make_array(20,24, /float) ; ### ~ 24 periods per year  
for 20 years.  
noPixels = 9  
countYear = 0;  
ENVI_FILE_QUERY, lfile_id, NS = ns, NL = nl, NB = nb, sname=sname,  
interleave=interleave  
pb= indgen(nb)  
line1 = ENVI_GET_SLICE (fid = lfile_id, line=640,  
pos=pb,xs=initSample, xe=lastSample )  
line2 = ENVI_GET_SLICE (fid = lfile_id, line=641,  
pos=pb,xs=initSample, xe=lastSample )  
line3 = ENVI_GET_SLICE (fid = lfile_id, line=642,  
pos=pb,xs=initSample, xe=lastSample )
```

```
For i=0, nb-1 Do Begin  
  arrayAvgYear[countYear,i] = (total(line1[* ,i]) + total(line2[* ,i])  
+ total(line3[* ,i])) / noPixels ;### Get the average for each image  
of stacked layers  
EndFor  
countYear+=1 ;count for each year  
fn+=1
```

```
IF (fn eq 2009) THEN BREAK  
Endwhile
```

Then I just save the arrayAvgYear into a text file and I got a file
with one values for each year (every 14 days)

```
Date, Year1, Year2,... Year20  
1, 0.3343, 0.233,  
14, 0.3344, 0.334,  
28, 0.3323, 0.344,  
...  
365
```

Any opinions...

Geo
