Subject: Re: How to eliminate smaller blob from label region image Posted by David Fanning on Mon, 22 Aug 2011 12:37:37 GMT

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Wox writes:

```
>
 On Sun, 21 Aug 2011 22:40:24 -0700 (PDT), vijay s
  <vijayans.in@gmail.com> wrote:
>
>> hi all,
>>
       I used label_region to get individual blob id for each region.
>>
>> But few of my blobs are very small in area wise and
>> i want to eliminate those from my images and retain blobs of larger
>> area (say pixel area gt 10). How can i eliminate unwanted smaller
>> blobs?
>>
>>
>> thanks in advance.
>
>
  By using the HISTOGRAM function:
>
>
  ; Minimum number of blob pixels
  npix_threshold=10
>
> ; Get image
  path=FILEPATH('pollens.jpg',SUBDIR=['examples','demo','demod ata'])
> READ JPEG, path, image
>
> ; Get blob indices
 b = LABEL_REGION(image gt 150)
>
  : Get population and members of each blob
  h = HISTOGRAM(b, REVERSE_INDICES=r)
>
  ; Regions with small number of pixels
  ind = where(h lt npix threshold,ct)
>
  ; Remove the small regions
  for i=0l,ct-1 do b[r[r[ind[i]]:r[ind[i]+1]-1]]=0
>
>
> Obviously, some indices will be missing since you zero'ed them out.
> You might want to fix that. It might not even be necessary to set the
> small blob indices to zero. It all depends on what you will do with
```

> the blob indices.

This is the method used by the Blob_Analyzer, and it makes it trivial to deal with blobs below a specific size.

```
theBlobs = Obj_New('Blob_Analyzer', biLevelImage)
nBlobs = theBlobs -> NumberOfBlobs()
FOR j=0,nBlobs-1 DO BEGIN
indices = theBlobs -> GetIndices(j, COUNT=count)
IF count LE 10 THEN Continue
....; Else, do your thing.
```

ENDFOR

You can find information on the Blob_Analyzer here:

http://www.idlcoyote.com/ip_tips/blobanalysis.html

Cheers,

David

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David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")