Subject: Re: How to eliminate smaller blob from label region image Posted by rogass on Wed, 31 Aug 2011 12:00:20 GMT

View Forum Message <> Reply to Message

```
On 22 Aug., 10:13, Wox <s...@nomail.com> wrote:
> On Sun, 21 Aug 2011 22:40:24 -0700 (PDT), vijay s
>
> <vijayans...@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.
Yep, and to put all things together:
```

function cr remove regions fast, mask, small=small, verbose=verbose small = ~n elements(small)? 10: 1>small

```
~n_elements(verbose)? 0
verbose =
                                                   1
t0 = systime(1)
I = label_region(mask,/ulong,/all_neighbors)
h = histogram(temporary(l),reverse_indices=r)
wh = where(h,nl)
for i=11,nl-11 do $
 mask[((ind=R[R[wh[I]]: R[wh[i]+1]-1]))] *= $
          total( mask[ind]) It small? 0:1
undefine,r,ind,wh; D. Fannings nice undefine routine
if verbose then print, 'Filtered regions: ',nl-11,' in: ',systime(1)-
t0,' s'
return,mask
Cheers
CR
end
```