
Subject: Re: Automatic Segmentation of a region
Posted by [idlfreak](#) on Thu, 07 Mar 2002 03:54:15 GMT
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hi,
sorry abt that question. I figured out the function of max_subscript
and there was some small problem in the logic and i fixed it. Sorry
abt this question.

cheers
Akhila

idlfreak@yahoo.com (Akhila) wrote in message
news:<b1ad7b05.0203061408.5a5ae0ea@posting.google.com>...

```
> HI,  
> Thanx for the help Martin Downing. But i'm not able to understand  
> the function of max_subscript. When i'm plotting a histogram for the  
> image i have, the max region is the outer black. But i don't want that  
> and i want the second highest region.  
> So i tried this command:  
>  
> Histo = Histogram(image, min = 0, binsize = 1)  
> max_area = max(Histo(Where(Histo lt 150000)), max_label)  
> imagefin = image eq max_label  
> tv, imagefin  
>  
> There's no image. I ahve no idea why. But the max region i get now is  
> the one that i want. Please help me with this and tell me what  
> max_subscript does.  
>  
> Thank you in advance for ur help and time.  
>  
> Cheers,  
> Akhila.  
>  
>  
> hradilv.nospam@yahoo.com (Vince) wrote in message news:<3c84d7c2.602066575@news>...  
>> On Mon, 4 Mar 2002 13:59:39 -0000, "Martin Downing"  
>> <martin.downing@ntlworld.com> wrote:  
>>  
>>>  
>>> "Akhila" <idlfreak@yahoo.com> wrote in message  
>>> news:b1ad7b05.0203031342.226685ea@posting.google.com...  
>>>> Hi,  
>>>> I have a small problem in segmentation. I first threshold a image and
```

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>>>> then i perform morphological operations on the binary image. Using
>>>> label_regions i've identified all the blobs. I used the where function
>>>> to get the regions in each blob. I have one huge blob and the rest are
>>>> small. I want to make all the pixels in the small blob as 0.
>>>> I tried the following:
>>>>
>>>> Method1:
>>>>
>>>> im = Origimage and morphimage
>>>> tv,image
>>>>
>>>
>>> I havent a clue how this would be what you want, try adding a comment to say
>>> what it should be doing
>>>
>>>> Method 2:
>>>>
>>>> for j = 1, noofblobs do begin
>>>>   region = Where (morphimage eq j)
>>>>   Area = n_elements(region)
>>>>   if (Area le 80000) then begin
>>>>     morphimage[region] = 0B
>>>>   endif
>>>> endfor
>>>>
>   refering also to:
>>>> ... I have one huge blob and the rest are
>>>> small. I want to make all the pixels in the small blob as 0.
>>>
>>> or to put it another way, you want everything but the large blob to be 0,
>>> and the large blob set to 1?
>>> this method is taken from working code
>>> =====
>>>   ; threshold_image could be from an segmentation routine
>>>   ;e.g.: threshold_image = image LT 100b
>>>
>>>   label_im = label_region1(threshold_image)
>>>
>>>   ; use histogram to count area of each labeled region (blob)
>>>   area = histogram(label_im, min=0, binsize = 1))
>>>
>>>   ; if you want just the blob of maximum area:
>>>   max_area = max(area,max_label)
>>>
>>>   ; now create a binary mask of the biggest blob
>>>   big_blob = label_im eq max_label
>>>
>>>   ; and display it

```

```
>>>  tvscl, big_blob
>>
>>  I suspect that using tvscl (instead of tv) is the crux of the
>>  problem?
>>
>>> =====
>>>
>>> hope this help you,
>>>
>>> cheers
>>>
>>> Martin
>>>
>>>
>>> -----
>>> Martin Downing,
>>> Clinical Research Physicist,
>>> Grampian Orthopaedic RSA Research Centre,
>>> Woodend Hospital, Aberdeen, AB15 6LS.
>>>
>>>
>>>
```
