Subject: spots on image
Posted by rpertaub@gmail.com on Thu, 25 Jan 2007 21:03:53 GMT
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Hello,
I am new to IDL so bear with me! I am analyzing an image with some spots on them (from a few pinholes). I need to know where these spots are and mark them and make a Gaussian fit. I have used the where function to find where the spots are and have obtained the pixels where the intensity is higher than a threshold. However, the spots are made up of more than 1 pixel, therefore i need to group these pixels together to make up one spot, and then fit a Gaussian...

Any ideas how to do that?

Thanks!

RP

Subject: Re: spots on image
Posted by Brian Larsen on Thu, 25 Jan 2007 23:00:33 GMT
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Mike,

Fantastic, it never fails that I learn something new everyday. I had never used label_region function before, Bravo!!!
and the combination of
mask = dat ge threshhold
regions = label_region(mask)
is pure gold.
This will make my life a lot better in the future, this is why I read (and post) to this group.

Brian

 -- --------------
Brian A. Larsen
Dept. of Physics
Space Science and Engineering Lab (SSEL)
Montana State University - Bozeman
Bozeman, MT 59717

On Jan 25, 2:35 pm, "mgal...@gmail.com" <mgal...@gmail.com> wrote:
> On Jan 25, 2:22 pm, "Brian Larsen" <balar...@gmail.com> wrote:

```
>
>>  I have done a bit of similar work.  Just in quick pseudocode
>
>>  dat = fltarr(256,256)
>>  ;; fill with an image
>>  ;; find  one of the pinhole brightnesses using your method
>>  ;; call that center[2] [0]->x [1]->yFor this part, I would do something like:
>
>  nColumns = 256   ; the number of columns in your image
>  mask = dat ge threshhold
>  regions = label_region(mask)
>  for r = 1L, max(regions) do begin
>    ind = where(regions eq r, count)
>    center = [mean(ind mod nColumns), mean(ind / nColumns)]
>  endfor
>
>  then continue on with Brian's fitting code.
>
>  Mike
>  --www.michaelgalloy.com
```

Subject: Re: spots on image

Posted by Jo Klein on Fri, 26 Jan 2007 12:13:51 GMT

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Just a small caveat that I've stumbled over before: LABEL_REGION doesn't like border pixels. This can easily be fixed by embedding your image in a new one with an extra pixel's width added on each margin. See David's goldmine:
http://www.dfanning.com/idl_way/avgseries.html

Jo

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