
Subject: Re: Using Objects-Urgent (To David et al)
Posted by [Mark Hadfield](#) on Wed, 27 Oct 2004 21:10:43 GMT
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Pravesh wrote:

- > David et al:
- > Please let me know how do i solve the finding area of ROI using
- > objects. i have the roi with me. u said i should feed it to contour
- > proc, isnt it?
- >
- > Please let me know details.

Calm down.

If your problem really is that urgent, then I suggest you get out your cheque book and contact an IDL consultant (like David Fanning, but there are others) and offer him/her a large amount of money to get his/her attention.

Failing that, you must accept that people who follow this newsgroup can be very helpful, for free, but *in their own time* and they prefer to see evidence that the person they are helping has made some effort to help him/herself.

Now, please take the time to explain carefully what you are trying to do, what you have done so far, what problems you have encountered and exactly what you want help with.

What does "I have the ROI with me" mean? Have you read the IDL documentation for the IDLanROI class? Do you understand how to create an IDLanROI object given a list of vertices? And then to use the ComputeGeometry method to calculate various geometric parameters, including area? Do you want some example code that uses this?

--

Mark Hadfield "Ka puwaha te tai nei, Hoesa tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: Using Objects-Urgent (To David et al)
Posted by [praveshsubramanian](#) on Thu, 28 Oct 2004 04:34:29 GMT
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Hello Mr.Mark:
Sorry for that annoying mail.
U have got it right. I have read the documentation carefully. Let me

explain it fully. Using region grow, i have obtained a vector of indices (1-d). Now, suppose image is my image array. i have to compute the geometric area of the roi whose indices are the returned array. i also know `oroi = obj_new('idlanroi', some array]`
let me know what the some array will be in the above scenario. it has to be a 2-d or 3-d array.

thanks
pravesh

Mark Hadfield <m.hadfield@niwa.co.nz> wrote in message
news:<clp2sm\$vsms\$1@newsreader.mailgate.org>...

> Pravesh wrote:

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Subject: Re: Using Objects-Urgent (To David et al)
Posted by [David Fanning](#) on Thu, 28 Oct 2004 07:41:59 GMT
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Pravesh writes:

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> explain it fully. Using region grow, i have obtained a vector of
> indices (1-d). Now, suppose image is my image array. i have to compute
> the geometric area of the roi whose indices are the returned array.

One way to calculate the area of the ROI is to multiply the number of elements in your vector by the area of a single image pixel. The "geometric" area is sometimes a bit smaller than this, but there are at least two or three different algorithms that are used to calculate it. Each of these gives a different number.

In the cases I am familiar with, it is not the absolute area I am interested in. Rather, I care about relative areas, since I am comparing one area to another. The method above is preferred for this sort of analysis, since it is extremely fast.

If you have to have perimeters of the outside, and holes inside, etc., then you have to take your indices and contour them. Use the CONTOUR command, for example, and save the path information in PATH_INFO and PATH_XY keywords. These will give you boundary points that you can feed into an IDLanROI object. Then you can use the ComputeGeometry method of that object to obtain parameters of interest.

> i also know oroi = obj_new('idlanroi', some array]
> let me know what the some array will be in the above scenario. it has
> to be a 2-d or 3-d array.

The documentation may be misleading you. It will be a 2xN array, if you have XY pairs of points describing an ROI in 2D. It will be a 3xN array of points if you have XYZ points describing an ROI in 3D.

Cheers,

David

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David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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