
Subject: Re: extract circle from data with idl
Posted by [termybel](#) on Mon, 16 Oct 2017 10:23:34 GMT
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Il giorno lunedì 16 ottobre 2017 11:20:59 UTC+2, Markus Schmassmann ha scritto:

> On 10/15/2017 06:08 PM, termybel@gmail.com wrote:

>> Il giorno giovedì 12 ottobre 2017 16:27:18 UTC+2, Markus Schmassmann ha scritto:

>>> On 10/12/2017 02:10 PM, termybel@gmail.com wrote:

>>>> Thanks to answer but I have a probelm.

>>>>

>>>> You puth this: if n_elements(li) ne 1 then message, 'not exactly 1 contour'

>>>>

>>>> and my program say: not exactly 1 contour

>>>>

>>>> How I can solve it?

>>>>

>>>> If I ask in idl " help,/str,li" and the answer is:

>>>>

>>>> Structure CONTOUR_DBL_PATH_STRUCTURE, 6 tags, length=24, data length=20:

>>>> TYPE BYTE 1

>>>> HIGH_LOW BYTE 1

>>>> LEVEL INT 0

>>>> N LONG 7

>>>> OFFSET LONG 0

>>>> VALUE DOUBLE 9.0000000

>>>>

>>>> and for " help,/str,lines"

>>>> LINES DOUBLE = Array[2, 5447]

>>>>

>>>> My contour isn't a perfect circle. Maybe is this the problem?

>>>>

>>>> This is my program where the image is a flat field panel minus dark:

>>>>

>>>> file_ff1='ff_100s_3.fits' ;immagine

>>>> immagine_ff1=readfits (file_ff1, header1) ; leggo l'immagine del flat field panel

>>>> file_dark='ff_100s_dark_3.fits' ;immagine

>>>> immagine_dark=readfits (file_dark, header1) ; leggo l'immagine della dark

>>>>

>>>> n=100. ; secondi di esposizione dell'immagine

>>>> ffp=(immagine_ff1-immagine_dark)/n

>>>>

>>>> ; contour per selezionare soglie di equivalore

>>>>

>>>> speriamo=fltarr(2048,2048) ; creo una matrice 2048x2048

>>>> dimensioni=size(speriamo,/dimensions)

>>>> cubo=where(ffp lt 9.5 or ffp gt 10)

>>>>

>>>>

```

>>>>
>>>> wrong_matrix=array_indices(dimensioni, cubo,/dimensions)
>>>> indxw=reform(wrong_matrix(0,*))
>>>> indyw=reform(wrong_matrix(1,*))
>>>> ;ffp(indxw,indyw)=0.
>>>> ;c = CONTOUR(ffp, dimensions=[512,512], Title='prova cubo')
>>>>
>>>> ; DATA being the data to be contoured
>>>> level=9
>>>> contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , path_xy=lines,
/path_data_coord, levels=[level], /path_double
>>>> ; lix=lines(0,*)
>>>> ; liy=lines(1,*)
>>>> ; liyd=deriv(lix,liy)
>>>> ;ind=where(abs(liyd) le 0.0001)
>>>>
>>>> if n_elements(li) ne 1 then message, 'not exactly 1 contour'
>>>>
>>>>
>>>> cont_obj=obj_new('IDLAnROI',lines)
>>>> void= cont_obj.ComputeGeometry(centroid=center)
>>>> ;fit_ellipse(
>>>> print, center[0:1]
>>>>
>>>> end
>>>
>>> contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , $
>>> path_xy=lines, /path_data_coord, levels=[level], /path_double
>>> contour, smooth(ffp(250:1700, 250:1700),3), levels=[level]
>>> ; shows you there are more than 1 contour,
>>> ; you need to identify the correct one
>>> ; often the best is the longest
>>> void=max(li.n,j)
>>> line=[*,li[j].offset+lindgen(li[j].n)]
>>> plot, line[0,*],line[1,*]
>>> cont_obj=obj_new('IDLAnROI',line)
>>
>> I don't know why but IDL says this message (it doesn't read the *):
>>
>> line=[*,li[j].offset+lindgen(li[j].n)]
>> ^
>> % Syntax error.
>>
> ; sorry, it should be
> line=lines[*,li[j].offset+lindgen(li[j].n)]

```

Thank you so much! :D :D :D