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Subject: Re: Iso-contours at maximum/minimum levels

Posted by [pgrigis](#) on Mon, 02 Feb 2009 19:00:40 GMT

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I sent a method last week that will do that  
without derivatives. Have you tried it?  
It works very well for me.

Ciao,  
Paolo

David Fanning wrote:

> Gianluca Li Causi writes:

>

>> I thanks you for the interesting discussion and I agree with David  
>> that the word "contour" means a line that "encloses something", but  
>> still you've not given indications for a working "imprint" function,  
>> which is what I need.

>>

>> The best that I've found, when the function derivatives are  
>> continuous, is to make the contour at level=0 of the partial  
>> derivatives  $dz/dx$  and  $dz/dy$ , which effectively produce a nice  
>> "imprint" line BUT also contains some extra lines, corresponding to  
>> where one derivative is null but the other is not.

>>

>> So one could take both the zero contours of the two derivatives and  
>> say that the "imprint" line is the common curve among these two  
>> contours (don't really know how to do this in practice).

>>

>> In any case this does not work with not continuous derivatives, like  
>> my first example.

>>

>> How could I search if such an "imprint" function is available anywhere  
>> in the IDL library of somebody? Is there an IDL libraries database  
>> somewhere in the internet?

>

> I tried this, and I at least get a circle:

>

> IDL> TVScale, Sobel(z), /KEEP

>

> I think something like that might work, with perhaps some thresholding,  
> etc.

>

> Cheers,

>

> David

>

> --

- > David Fanning, Ph.D.
  - > Coyote's Guide to IDL Programming ([www.dfanning.com](http://www.dfanning.com))
  - > Sepore ma de ni thui. ("Perhaps thou speakest truth.")
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