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Subject: Re: find area under a curve for comparison of two Saturn rings

Posted by [Jeremy Bailin](#) on Fri, 10 Oct 2008 14:04:17 GMT

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On Oct 9, 12:59 pm, frankosuna <frankos...@gmail.com> wrote:

> I am trying to calculate how much of an error there is between two  
> rings. I have two images each with a ring pictured in these two  
> images.  
>  
> This is from a wireframe generated from a 3d model. The edge is  
> selected by the user and region growing is used to extract that ring.  
>  
> <http://frankosuna.googlepages.com/wireframe2.jpg>  
>  
> This other one is from an edge detected image of Saturn. All the  
> rings are edge detected and the same ring clicked on the first image  
> is clicked on this one. Region growing is done to extract just that  
> one ring.  
>  
> <http://frankosuna.googlepages.com/edgeDetect2.jpg>  
>  
> There is some error in the location of these two rings. I need to  
> compute what the difference is between both. I'm not too sure what  
> the best and easiest way would be to do this in IDL.  
>  
> Any suggestions are welcome.  
>  
> Thanks,  
>  
> Frank

I'd say something like do a cross-correlation via an FFT and see where  
the peak ends up.

-Jeremy.

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