Subject: Re: Edge detection for saturn's rings Posted by David Fanning on Tue, 15 Jul 2008 00:52:28 GMT View Forum Message <> Reply to Message

frankosuna writes:

- > I've been trying to use some of the built in edge detection routines
- > implemented in idl such as sobel but I haven't found a very good one
- > that will work for images such as this:

>

> http://frankosuna.googlepages.com/supportImage.jpg

>

- > I am trying to pull out all of the rings in this image and the best I
- > have gotten is this:

>

> http://frankosuna.googlepages.com/edgeDetect.jpg

>

> Any suggestions and opinions are welcome.

Wow. You have admirably high expectations! I would've been thrilled with those results. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Edge detection for saturn's rings Posted by ben.bighair on Tue, 15 Jul 2008 01:06:18 GMT View Forum Message <> Reply to Message

On Jul 14, 8:52 pm, David Fanning <n...@dfanning.com> wrote:

- > frankosuna writes:
- >> I've been trying to use some of the built in edge detection routines
- >> implemented in idl such as sobel but I haven't found a very good one
- >> that will work for images such as this:

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>> http://frankosuna.googlepages.com/supportImage.jpg

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- >> I am trying to pull out all of the rings in this image and the best I
- >> have gotten is this:

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```
>> http://frankosuna.googlepages.com/edgeDetect.jpg
>
>> Any suggestions and opinions are welcome.
>
> Wow. You have admirably high expectations! I would've
> been thrilled with those results. :-)
>
Me, too! But, Frank, the images are two different sizes - is the color one really the source for the edge image? If so, how did you convert to greyscale? Did you do any steps other than Sobel?
```

Subject: Re: Edge detection for saturn's rings Posted by frankosuna on Tue, 15 Jul 2008 01:41:31 GMT View Forum Message <> Reply to Message

Actually no, that is not the original image. I just did a quick print screen to show you guys what it was. The original image is a 1024x1024 as is the edge detected. This is the following code that I have:

```
LOADCT, 0
mydevice = !D.NAME

SET_PLOT, 'Z'

ERASE

DEVICE, SET_RESOLUTION=[1024,1024]

;; SOBEL CODE

;; SOBEL
```

CHeers, Ben WRITEU, lun, image FREE LUN, lun **ERASE**

SET_PLOT, mydevice

Subject: Re: Edge detection for saturn's rings Posted by David Fanning on Tue, 15 Jul 2008 01:45:32 GMT View Forum Message <> Reply to Message

frankosuna writes:

> filteredImage = SMOOTH(filteredImage,.001)

I don't think that SMOOTH function is doing what you *think* it is doing, unless it belongs to a different library than the one that comes with IDL. :-)

Cheers.

David

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

Subject: Re: Edge detection for saturn's rings Posted by frankosuna on Tue, 15 Jul 2008 01:57:00 GMT View Forum Message <> Reply to Message

Oh yes... disregard that :) I was just messing with different stuff to see if I could get better edge detection and forgot to comment that out.