Subject: Re: Edge detection for saturn's rings Posted by Vince Hradil on Wed, 16 Jul 2008 14:02:49 GMT

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On Jul 15, 10:02 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:

>

>> 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.

>

- > Andrew Cool points out to me that as a backyard astronomer, he
- > is always interested in this kind of thing, and that the CANNY
- > edge detection routine is often the best one for this kind of
- > separation. Oddly, though, there is no mention of the CANNY
- > routine under "Edge Detection" in either the IDL 6.4 or IDL 7.x
- > on-line help! An oversite we hope someone at ITTVIS notices.

>

> 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.")

I dug around a couple of years ago and found a canny implementation in idl. I fixed it up so that it works pretty well for me, but I haven't used it in quite a while. The header mentions Julian Walmsley, 1999 requires IDL 5.2.x - based on Gideon Amos, 1997, requires IDL 4.x.

Cheers, Vince