Subject: Re: subpixel image movement by bicubic interpolation? Posted by meinel on Thu, 04 Jun 1998 07:00:00 GMT

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In article <35757C9B.5E9AD577@as.arizona.edu>, Dyer Lytle <dlytle@as.arizona.edu> wrote:

>

> Hello all

>

- > I have an IDL program that requires images to be moved by
- > very small amounts, often as little as one hundredth of a
- > pixel.
- > So I thought I'd ask if anyone has a sub-pixel image movement
- > routine based on bicubic interpolation that they would be willing
- > to share.

>

Here's a couple of items of interest for image processing:

- 1) You are not moving the image by 1/100 pixel -- you are increasing your measurement uncertainty by 1/100 pixel.
- 2) *ALL* image interpolation methods introduce non-physical artifacts.

For your particular case, I recommend that you hike across the street and talk to Bobby Hunt (hunt@ece.arizona.edu). He could give you some suggestions on what to do with your data.

Ed Meinel meinel@aero.org

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