
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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