

Re: interpolation for a color image?

Source: <http://sci.tech-archive.net/Archive/sci.image.processing/2008-05/msg00171.html>

- *From:* illywhacker <illywacker@xxxxxxxx>
 - *Date:* Fri, 30 May 2008 00:49:55 -0700 (PDT)
-

On May 29, 6:42 pm, aruzinsky <aruzin...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On May 29, 12:07 am, Martin Leese <ple...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

Harris wrote:

Original image sample:

1 2
3 4

Your 2-pass 1-D linear interpolation expands this box twice, once for X-direction and once for Y-direction. The new pixels at position (area) 4 are interpolated using 3 and 2 respectively, that is using distance 1. But the distance from 1, which should also be taken into account statistically, is at distance $\sqrt{2}$. Even if you are using weighting factors, you end up with something else (weighted average) other than true bilinear interpolation.

Sorry to interrupt, but bi-linear interpolation is separable. Always has been, always will be. If you still doubt this then ten minutes with pen and paper will convince you otherwise.

Re: interpolation for a color image?

We now return you to your scheduled flame-fest.

--

Regards,

Martin Leese

E-mail: ple...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Web:http://members.tripod.com/martin_leese/

Remember the saying, "All that is necessary for evil to succeed is that good men do nothing."? Replace "evil" with "stupidity". You are a good man. Thank you.– Hide quoted text –

– Show quoted text –

You pretentious, pompous, condescending prat.

illywhacker;

.