Subject: Re: "Correct" Data Philosophy
Posted by lecacheux.alain on Fri, 18 Dec 2009 09:35:02 GMT
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On 18 déc, 00:36, David Fanning <n...@dfanning.com> wrote:
> Kenneth P. Bowman writes:
>> IDL does a number of different kinds of interpolation. For the
>> basics you can look in my book. The chapter on interpolation
>> happens to be the sample chapter that is posted on my web site
>
>> http://csrp.tamu.edu/pdf/idl/sample_chapter.pdf
>
> I have the book. I'll have a look. Thanks. :-)
>
> Cheers,
>
> David
>

Regarding interpolation, a summary rule might be the following:
Interpolation is deeply related to sampling; if your function is
sampled
in a Shannon compliant way, you CAN always interpolate (the cubic
spline
being then an excellent approximate of the ideal interpolating
function).
If it is not, you CANNOT do anything.
More generally, your ability to "correct" an image depends on whether
or not you can
get a sufficient knowledge of its statistics. For example, the "bad
pixel" problem
in CCD images, means that you implicitely assume that the pixel
distribution in the image
cannot contain such an outlier: then you know how you can set a
threshold or build
an adapted filter. IDL contains most of the tools needed for that.
But if you have no idea of your data statistics, neither IDL, Matlab
nor anything else
will be able to help you...
alx.