
Subject: Re: RMS error

Posted by [Craig Markwardt](#) on Wed, 12 May 2004 15:11:43 GMT

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Paul Van Delst <paul.vandelst@noaa.gov> writes:

> Craig Markwardt wrote:

>> David Fanning <david@dfanning.com> writes:

>>

>>

>>> Julio writes:

>>>

>>>

>>>> I'd like to calculate Root Mean Square error using a base image and a

>>>> secondary image. How can I do that? Clues are welcome!

>>>

>>> rms_error = Sqrt(Total((img_1 - img2)^2)/N_Elements(img_1))

>>

>>

>> Hey David, I'll pile on too. The problem I see with the above

>> expression is that there could be an offset between the two images,

>> which you are including in your TOTAL expression, and hence biasing

>> the rms value.

>

> Errmm... isn't that intended? RMS errors include the bias. Std deviations don't. At any
> rate, that's how I use 'em. This is what I've got on my wall:

It's a good question for the original poster!

Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
