Subject: Image error calculation
Posted by Suguru Amakubo on Thu, 01 Apr 2010 02:10:37 GMT
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Hi I basically have a 400x400 jpg image that I have obtained by combining 22 similar images. I am currently trying to determine if the new image produced is better in quality than the original image that I used as a base.

(With my extremely limited knowledge of images) I have tried to do this by using the statistic command and looking at the standard deviation (hence error of image). However I do have an alarming sense that I am running into a mistake.

Would it be possible if anyone could tell me what IDL procedures or methods you use to determine 'image quality' quantitatively?

Thanks for your help in advance

Suguru

Subject: Re: Image error calculation
Posted by Maxwell Peck on Thu, 01 Apr 2010 20:59:58 GMT
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You should definitely listen to the guys above and ignore my suggestion if you indeed want to show that overall signal to improved is increased with image stacking. I was really referring to your idea of blurring/sharpness in the image being a metric - I'm not sure (nor do I have a lot of knowledge) of whether showing the signal to noise ratio has improved is enough in and of itself for this purpose.

Max

Subject: Re: Image error calculation
Posted by Suguru Amakubo on Fri, 02 Apr 2010 01:28:49 GMT
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Thank you all very much for helping me I will definitely experiment using tiff to see what I could do.

For the time being I will use the root mean square error as suggested.

Thank you all very much for being helpful.

Regards

Suguru