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Subject: Noise calculation in IDL

Posted by [Suguru Amakubo](#) on Fri, 28 May 2010 02:43:47 GMT

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Dear all

I am currently working on a new noise reduction method of a 400x400 image. I have successfully programmed the codes in IDL to execute the above. However when it came down to measuring the noise and demonstrating the improvements. My lack of experience in dealing with signal noise made me struggle. Please explain to me how/what:

1)to display noise + signal graphically in IDL (I heard the use of histograms will help but not sure what this means)

2)the concept of adding white noise to the current signal in order to reduce the overall noise is and how to do this in IDL

3)equations I should use when adding/subtracting the noise from the signal

also if there are any webpages or books that explains the concept of signal noise please reply a link.

I am sorry if this is a bit off topic but since IDL is popular amongst astronomers who works with images frequently and I have written the code in IDL I thought I can get the most suitable help here.

I am sorry if any of the above is trivial matter to you I just couldn't find much help on the web so far.

Thank you for your help

Suguru

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