Subject: Re: Gaussian Fit to background of image for subtraction
Posted by Vince Hradil on Tue, 06 Feb 2007 21:09:23 GMT
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On Feb 6, 11:25 am, "rpert...@gmail.com" <rpert...@gmail.com> wrote:
> Hello,
> I am doing some image analysis, and my image consists of several
> bright spots that I need to detect. I was able to write a program that
> would do just that...find the pixels that are larger than a threshold,
> group close pixels together and label different blobs as different
> spots by marking a 'plus sign' on the spot. Except, it does not 'see'
> all the spots, and lowering the threshold results in 'seeing' spots
> that are not there. Therefore, I am considering some filtering that I
> need to do to my background as it is not uniform and was suggested to
> perform a gauss 1d or 2d to the background to subtract it (and exclude
> the spots as I do that), and then see if i can 'see' all the spots....
>
> I am not sure how to do a gauss fit to background though...any
> suggestions?
> Thanks!
> rp

You could try a high-pass filter in the fourier domain?
Or try fitting a 2d gaussian by brute-force - or 2d-gaussian plus
spots. Is there a reason to believe that the background is gaussian
or was that just suggested because it is "smooth"? If it's the
latter, then I would try the fourier filtering...