Subject: Re: Image analysis and ring identification
Posted by Rachel Pepper on Thu, 18 Apr 2002 04:21:46 GMT
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Actually, the rings often have a bright spot that is not in the center of
the ring, so I don't think the centroiding technique will work. Do you have
any other suggestions?

Thanks,
Rachel

David Fanning wrote:

> Rachel Pepper (Rachel_Pepper@brown.edu) writes:
>
>> I am a fairly new IDL user trying to use image analysis to determine
>> particle positions in my images. After filtering the images, they
>> appear to be bright rings around a dark center. I was wondering if
>> anyone knew a routine to fit these sorts of images to a circle so that
>> the center of the ring could be determined. Thanks for any help!
>
> If you can isolate the "blobs" (as we usually call them) in
> your image (e.g., with Label_Region or with something home-grown)
> and obtain the indices of the pixels in the blob, then you can
> calculate the centroid of the pixel distribution in the manner
> described on this page:
>
> http://www.dfanning.com/tips/centroid.html
>
> Craig Markwardt wrote me a nifty little routine one time
> to then fit an ellipse to the pixel distribution in an
> attempt to characterize the size, shape, and orientation
> of the blobs. I keep meaning to make this algorithm available,
> but I haven't gotten around to it yet. (And I don't really
> what to cut into Craig's significant income as the Expert's
> Expert, if you know what I mean.)
>
> Cheers,
>
> David
>
> P.S. By the way, Craig. I put that check in the mail to
> you today. Really! :-)
>
> --
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> Coyote's Guide to IDL Programming: http://www.dfanning.com/
> Toll-Free IDL Book Orders: 1-888-461-0155
