
Subject: Re: Image analysis and ring identification
Posted by [Paul Van Delst\[1\]](#) on Thu, 18 Apr 2002 12:37:55 GMT
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Rachel Pepper wrote:

>
> 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?

Once you've isolated the region of interest within the ring (the hardest part I reckon), can't you just determine the bright spot location by finding it's location via MAX using the image intensities?

e.g. if the variable blob_index contains the indices of the pixels blob_image within the ring, then

```
max_spot_value = MAX( blob_image[ blob_index ], max_spot_index )
```

Doesn't matter where the bright spot is. Or, if you're looking for regions where the intensities are greater than some value, say max_spot_threshold, use WHERE:

```
max_spot_index = WHERE( blob_image[ blob_index ] GT max_spot_threshold, max_spot_count )
```

```
IF ( max_spot_count EQ 0 ) THEN $  
  MESSAGE, 'No bright spot found!'
```

In both cases, of course, max_spot_index references the blob_index array, not the actual image array.

?

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