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Subject: Extracting the resultant angles from the Hough transform

Posted by [txominhermos](#) on Wed, 26 Oct 2005 09:36:35 GMT

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I am using the IDL's Hough transform function to detect lines in some crop images.

I can perform the transformation and the backproject with the lines, but I don't know if it is possible to extract one list with the value of the angles that actually are lines in the backproject images.

If you know how to do it, please help me.

Cheers

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Subject: Re: Extracting the resultant angles from the Hough transform

Posted by [txominhermos](#) on Fri, 28 Oct 2005 10:55:31 GMT

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Nobody will answer me?

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Subject: Re: Extracting the resultant angles from the Hough transform

Posted by [Timm Weitkamp](#) on Mon, 31 Oct 2005 11:25:39 GMT

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txominhermos@hotmail.com wrote:

> Nobody will answer me?

Well, maybe nobody here *\*knows\** the answer. It happens, you know.

Of course, you can always try to find somebody who will find out for you. In exchange for appropriate payment, that is.

Good luck  
Timm

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Subject: Re: Extracting the resultant angles from the Hough transform

Posted by [txominhermos](#) on Thu, 03 Nov 2005 11:53:32 GMT

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THE ANSWER TO THIS QUESTION HAS BEEN GIVEN BY THE RSI TECH SUPPORT

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The THETA output variable can be used to find the angle for a line.  
Here is a short example demonstrating how this is done:

```
.*****
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pro test

; Choose two points in the range
; 1 < x < 199
; 1 < y < 199
p0 = [40.,20]
p1 = [120,180]

nx = 200d
ny = 200d

array = fltarr(nx,ny)
array[[p0[0],p1[0]],p0[1],p1[1]] = 1b

; Display the data:
window, 0, xs = nx, ys = ny, $
xpos = 0, ypos = 0, $
title = 'original data'
tvsc1, array

; HOUGH input parameters:
dx = 1.2
dy = 1.0
xmin = 0.0
ymin = 0.0

r = hough(array, rho = rho, theta = theta, $
dx = dx, dy = dy, xmin = xmin, ymin = ymin)

sz = size(r, /dim)

; Locate the line
maxcount = where(r eq max(r))

; Use the output variable THETA to get the line's angle:
radangles = theta[maxcount mod sz[0]] - !pi/2
print, 'Angle(s) : '
print, radangles
print
```

end

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