

Re: Advise on object detection

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- *From:* ImageAnalyst <imageanalyst@xxxxxxxxxxxxxxxx>
 - *Date:* Wed, 21 May 2008 20:48:55 -0700 (PDT)
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On May 21, 4:35 am, stormogulen <bjarn...@xxxxxxxx> wrote:

Hi all,

I have a bunch of pictures like this one:

(<http://cid-1627b3c28e2dc281.spaces.live.com/photos/cns!1627B3C28E2DC281!125>)

(A picture of rocks with soil between them)

I would like to detect and extract every single rock in the picture. What would be the best way to do this? I have tried using Canny edge detection to find each rock, but even though the contrast between rock and soil is quite high, I don't get all the edges in the picture.

Also I would like to find the green box which is somewhere at the center of the picture. How would you suggest that I do that?

Best regards,
Bjarne

Bjarne:

An edge detector depends on the window size so it will find large dirt areas in addition to the dirt cracks between the rocks. You might try just simple thresholding and then maybe a morphological opening to make the dirt connect in the narrow spots. Or you could use the edge detector but to have it not find the large dirt spots, you need to check your areas against their average intensity and then throw out regions close to the dirt color. Doesn't really look too tough to do a reasonably good job. Find the green box with a color classifier, for example just convert the RGB image into HSI and threshold on the hue channel.

Regards,
ImageAnalyst