

Re: zernike moments question

Source: <http://sci.tech-archive.net/Archive/sci.image.processing/2008-04/msg00014.html>

- *From:* "Ashish Uthama" <ashishu@xxxxxxxxxx>
 - *Date:* Wed, 02 Apr 2008 10:18:27 -0400
-

Not sure how you planned to compress your pixel grid.

I would just rescale my x's and y's to be in the range 0-1 (i.e divide by $\max(\max(x(:),y(:)))$) after you define your origin as the 'centre' of the image (centroid?)

On Sun, 09 Mar 2008 09:42:32 -0400, Adam Chapman <adam.chapman@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On Mar 9, 12:12 am, aruzinsky <aruzin...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On Mar 8, 10:36 am, Adam Chapman

<adam.chap...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

> On Mar 8, 4:31 pm, aruzinsky <aruzin...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

>> On Mar 8, 8:26 am, Adam Chapman

>> <adam.chap...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

>>> Hi,

>>> I have to calculate the zernike moments (http://homepages.inf.ed.ac.uk/rbf/CVonline/LOCAL_COPIES/SHUTLER/node1.html) of an image as a step in
>>> an image processing algorithm.

>>> The problem I have is that you are only supposed to make the zernike
>>> moment from the region where $x^2+y^2 \leq 1$. This suggests that I have to
>>> compress my pixel grid to fit in a circular shape with an edge radius
>>> of 1.

>>> Am i correct?

>>> Adam

Re: zernike moments question

>> What "image processing algorithm?"

> Im inputting the zernike moments into a neural net for character
> recognition.– Hide quoted text –

> – Show quoted text –

I have no experience with this, but, it seems to me that the background of a character may as well be made up. If you isolate the character, you can put it against an artificial black background and draw a circle around it any way you want. A zero luminance background won't contribute to a moment.– Hide quoted text –

– Show quoted text –

Yes I am using a binary image (1 for pixels belonging to the letter, black otherwise). Thanks for the help

Adam