Subject: gray-level co-occurrence matrix (GLCM)
Posted by j.coenia@gmail.com on Tue, 01 Jun 2010 13:33:50 GMT
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Is there an efficient and versatile gray-level co-occurence matrix
(GLCM) routine in IDL, or in someone's library? Found routines called
"graycomatrix" and "graycoprops" for MATLAB. Anything like that for
IDL?

Subject: Re: gray-level co-occurrence matrix (GLCM)
Posted by mediterraneo on Sat, 22 Nov 2014 20:45:06 GMT
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On Tuesday, June 1, 2010 3:33:50 PM UTC+2, j.co...@gmail.com wrote:
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> (GLCM) routine in IDL, or in someone's library? Found routines called
> "graycomatrix" and "graycoprops" for MATLAB. Anything like that for
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It seems that there aren't.
This is in my humble opinion a big mistake and a missed opportunity for IDL
that, at the end of the 2014, doesn't have routine for the calculation of texture indices. As also I
am interested in the topic, I wrote to IDL two weeks
ago and did not receive any answer.
There are more than ten years that IDL is immovable.

Subject: Re: gray-level co-occurrence matrix (GLCM)
Posted by lecacheux.alain on Sun, 23 Nov 2014 18:53:03 GMT
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Le mardi 1 juin 2010 15:33:50 UTC+2, j.co...@gmail.com a écrit :
> Is there an efficient and versatile gray-level co-occurence matrix
> (GLCM) routine in IDL, or in someone's library? Found routines called
> "graycomatrix" and "graycoprops" for MATLAB. Anything like that for
> IDL?

For computing GLCM of an image IMG (2D-array of bytes), I would simply do:

```
  n = N_elements(img)
;left shift the image array
  img_shifted = shift(img,1,0)
;vectorize both arrays
  img = reform(img,n)
  img_shifted = reform(img_shifted,n)
;compute GLCM
```

glcm = hist_2D(img,img_shifted,MIN1=0,MIN2=0)

alx.