Subject: Re: cross-correlating images Posted by Achim Hein on Thu, 23 Jan 1997 08:00:00 GMT

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Howard Schultens wrote:

>

- > I want to compute the cross-correlation function of 2 images using
- > IDL, ie. of two 2-dimensional arrays. Does anyone have a routine
- > to do this (or point me to a FAQ)?

>

- > Thanks
- > ..Howard hschult@gwdg.de

Crosscorrelation in the time-domain is equal to the convolution of the one signal with the time-inversed other signal. Convolution in the time domain is equal to multiplication in the frequency domain - so you have to multiply the both images (one image as conjugate complex because of the inverse time) in the frequency domain.

But think of the zero padding depending on the growing arrays.

Achim Hein

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Dipl.-Ing. A. Hein PB2 / ZESS - Uni-GH-Siegen Paul-Bonatz Str. 9-11 57068 Siegen

Phone: 0271/740-3362 Fax: 0271/740-2336

Please have a look at our Web-Sites:

http://www.nv.et-inf.uni-siegen.de/pb2/www_pb2
