
Subject: Re: filtering images in the fourier domain
Posted by [David Fanning](#) on Mon, 17 Nov 2003 14:24:23 GMT
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dino nicola writes:

```
> is anybody out there that can tell me how to filter row by row or column by
> column an image (actually one radiographic projection)
>
> indeed I am little confused with the FFT call in IDL
>
>
> in matlab the commands are :
>
> % matalb working example ... column by column ... H is my filter
>
> proj = fft(proj);      % p holds fft of projections
> for ic = 1:size(proj,2)
>     % filter column by column i.e. row sino by row sino
>     proj(:,ic) = proj(:,ic).*H; % frequency domain filtering
> end
> proj = real(ifft(proj)); % p is the filtered projections
```

Things are done a little differently in IDL than they are in MatLab. I know because I am actually working on a MatLab translation today and I can't *believe* how much easier things are in IDL! :-)

Here is an article that explains FFT filtering in IDL.

http://www.dfanning.com/ip_tips/freqfiltering.html

Cheers,

David

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