
Subject: FFT-filtering

Posted by [Harald von der Osten](#) on Fri, 16 Apr 1999 07:00:00 GMT

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Dear IDL-specialists,

I would like to do some FFT-filtering on TIFF-files in IDL. Does such routines still exist? Where could I find some code?

It would be great if one could manually change/delete via cursor areas in the frequency-domain before transferring the data back into the time-domain

Thanks a lot for any (maybe: positive??) answer

Harald

--

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<http://delos.lf.net/~hvdosten/index.html>: Geomagnetism and Geoelectrics

<http://www.region-lb.de/HomeSites/HvdOsten>: Ground Penetrating Radar and EMI

Subject: Re: FFT-filtering

Posted by [wbiagiot](#) on Tue, 20 Apr 1999 07:00:00 GMT

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> Dear IDL-specialists,

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> I would like to do some FFT-filtering on TIFF-files in IDL. Does such
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>

> Harald

Harald,

One hint that I could give you is one that I made good use of myself. On his website, David Fanning provides IDL source code for an IDL "rubberband" box (click and stretch) that I made very good use of. I provided some extensions around it (widgets for nudging the final line coordinates) to make it more usable. By drawing your TIFF file and manually drawing a r-band box, you've selected the region of your image that you wish to act upon. Extract the data selection into another matrix, FFT-it, filter it, inverse FFT-it and place it back into the original matrix. The IDL demos perform this operation on an entire image and that source code (provided with IDL) is a good place to look.

Granted this is highly simplified, but provides the basic blocks to tackle. You could also skip the rubberband box code and just use sliders for specifying the box.

Thanks to David for the /pixmap lesson.

-Bill B.

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