Subject: Re: wavelet using wv_dwt
Posted by Konstantinos on Thu, 16 Jun 2011 17:17:53 GMT
View Forum Message <> Reply to Message

If i understand what you want I will propose yoy this piece of code

```
pro wavelet_for_forum

    x1 = read_tiff(filepath('image.tif',subdir =
['examples','data']))
    z=128
    x = congrid(x1, z,z ,/cubic)

    info = wv_fn_daubechies(2, wavelet, scaling,ioff, joff)
    wv_dwtpartial = wv_dwt(x,wavelet,scaling,ioff,joff, N_LEVELS = 2)

    LL2=wv_dwtpartial[0:z/4-1,0:z/4-1]

    tv, LL2


end
```

LL2 stands for the LL component of the second level

IF you want wavelet code more than what ITTVIS provides (eg a trous, or Daubechies 7/9 wavelet etc) and without the limnitation of the image been of the type: image[2^n, 2^n] (eg image[240, 458] without the need of congrid) ask me

Kostas

Subject: Re: wavelet using wv_dwt
Posted by Lavanya on Sat, 18 Jun 2011 05:07:53 GMT
View Forum Message <> Reply to Message

On Jun 16, 10:17 pm, Konstantinos <moonlightsha...@hotmail.gr> wrote:
> If i understand what you want I will propose yoy this piece of code
>
> pro wavelet_for_forum
>
>   x1 = read_tiff(filepath('image.tif',subdir =
> ['examples','data']))
>   z=128
>   x = congrid(x1, z,z ,/cubic)
>
>   info = wv_fn_daubechies(2, wavelet, scaling,ioff, joff)

>   wv_dwtpartial = wv_dwt(x,wavelet,scaling,ioff,joff, N_LEVELS = 2)
>
>   LL2=wv_dwtpartial[0:z/4-1,0:z/4-1]
>
>   tv, LL2
>
> end
>
> LL2 stands for the LL component of the second level
>
> IF you want wavelet code more than what ITTVIS provides (eg a trous,
> or Daubechies 7/9 wavelet etc) and without the limnitation of the
> image been of the type: image[2^n, 2^n] (eg image[240, 458] without
> the need of congrid) ask me
>
> Kostas

Thanks Kostas, that works perfectly for me.

Please tell me on how to make the wavelet code work when the image is
not ^2. Is there a better way to use congrid?

-
Thanks
Lavanya

Subject: Re: wavelet using wv_dwt
Posted by Konstantinos on Sat, 18 Jun 2011 07:58:14 GMT

Lavanya,

Wavelets are filters.
All wavelet filters do not work the same way. (they do not decompose
the image the same way)

IDL wavelet transform use the wavelet (=filter) that described in the
book "section 13.10 of Numerical Recipes in C: The Art of Scientific
Computing, 2nd ed."

Do you have in depth knowledge of wavelets or you just want to use
them?

Give more details of what you want to do and I will help you.

Kostas