
Subject: Re: Wavelets

Posted by [chris_torrence@NOSPAM](#) on Wed, 04 May 2011 16:47:41 GMT

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On Apr 29, 5:23 am, Konstantinos <moonlightsha...@hotmail.gr> wrote:

> Hi to all

>

> I am a new IDL user. I want to use wavelets. The wavelet toolbox is

> not enough for me, Does any one knows (or have) any program that

> performs 2 or 3 D wavelet transform?

>

> Thank you in advance for your answer.

>

> P.S. Sorry about my poor english.

Hi,

Have you looked at the algorithms that ship with IDL? They include

WV_DWT, WV_PWT, WV_FN_MORLET, WV_FN_PAUL, WV_FN_HAAR, WV_FN_SYMLET,
WV_FN_COIFLET, WV_FN_DAUBECHIES, WV_DENOISE, and WV_CWT.

The WV_DWT will handle arrays of up to 8 dimensions. For example, for
a 3-dimensional array:

```
info = WV_FN_DAUBECHIES(2, wavelet, scaling, ioff, joff)
wv=wv_dwt(randomu(seed,16,16,16),wavelet,scaling,ioff,joff)
help,wv
WV          FLOAT    = Array[16, 16, 16]
```

Cheers,

Chris

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