Subject: Wavelet transform in IDL?
Posted by atmospheric physics on Tue, 13 Jan 2015 22:47:44 GMT

Dear All,

Can anyone provide me the information whether we can perform multi-resolution analysis in IDL, especially, obtain the coefficients of the maximal overlap discrete wavelet transform (MODWT) of a time-series data?

Thanks in advance,
Madhavan

Subject: Re: Wavelet transform in IDL?
Posted by Yngvar Larsen on Wed, 14 Jan 2015 09:12:00 GMT

On Tuesday, 13 January 2015 23:47:46 UTC+1, Madhavan Bomidi wrote:
> Dear All,
>
> Can anyone provide me the information whether we can perform multi-resolution analysis in IDL, especially, obtain the coefficients of the maximal overlap discrete wavelet transform (MODWT) of a time-series data?
>
> Thanks in advance,
> Madhavan

MODWT is in principle just a subsampled CWT.

http://www.exelisvis.com/docs/WV_CWT.html

This function should be equivalent to a MODWT if you set DSCALE=1.0 (Default is 0.25, yielding 4 samples per octave in the scale dimension).

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Yngvar