
Subject: Re: Inverse CWT

Posted by [R.G. Stockwell](#) on Wed, 20 Apr 2005 22:47:12 GMT

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"m_schellens" <mschellens@gmail.com> wrote in message
news:1113989088.320194.139730@l41g2000cwc.googlegroups.com.. .
> Does somebody know how to calculate the inverse continuous wavelet
> transform
> in IDL?
> Thanks,
> marc

If you had used the S-Transform, you would average the local spectra over
time
to get the Fourier Spectrum (and then inverse FFT to get the time series).
Other than having that very nice quality, the ST is very similar to the CWT
with Morlet wavelets.

more info at:

<http://www.cora.nwra.com/stransform/>

(see the menu on the left hand side for links to code, papers, etc)

Cheers,
bob

PS sorry for not answering the question. What wavelet did you use,
and what scales do you have sampled (octave sampling?), and what
range of scales do you have? It may not be possible to get the inverse
if the full range of frequencies is not sampled.

Do you have only the CWT info and you need the time series? or
are you asking a general question on how to invert the CWT?
