
Subject: Re: Fourier analysis of the Data with some gaps
Posted by duxiyu@gmail.com on Wed, 15 Apr 2009 07:36:29 GMT
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Thank you very much.
It is very helpful.

Best wishes,
jdu

On Apr 15, 12:39 am, "R.G. Stockwell" <noemail...@please.com> wrote:

> <dux...@gmail.com> wrote in message
>
> news:55d7a5d9-0fc3-462d-a680-3be22f337271@k19g2000prh.google groups.com...
> Thank you for your explanation.
> I am very intertesting in the local spectral technique you mentioned.
> Could you recommend some references about it?
>
> Best regards,
> jdu
> *****
>
> There is a lot. A straight forward Short Time Fourier Transform is
> simple and easy to understand. Simply parse the time series into small
> overlapping regions and FFT it.
>
> There are wigner type transforms, that in my opinion are very useful
> for real data with noise.
>
> There are wavelets (two distinct branches, you'd want the CWT with morlet
> wavelets or perhaps mexican hat wavelets if you are interested in local
> spectra.
> Orthogonal wavelets are not directly related to the fourier spectrum)
>
> And there is the S-transform, which is combination of STFT and Wavelets,
> and has several advantageous characteristics.
>
> <http://www.cora.nwra.com/stransform/>
>
> cheers,
> bob
>
> PS disclaimer, the ST stuff is mine, so I may be a bit biased when I
> say it is superior to all other methods for the analysis of transient
> quasimonochromatic
> signals in geophysical data. :)
> Source code is available on that website.
