Subject: wavelet software for idl
Posted by Christian Oehreneder on Wed, 06 Sep 1995 07:00:00 GMT
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Schalom!

I need wavelet software for IDL. Who knows where i can get it?

Thanks in advace
Chris

Subject: Re: wavelet software for idl
Posted by agraps on Wed, 13 Sep 1995 07:00:00 GMT
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Previously I wrote:

> hahn@hrz.th-darmstadt.de (Norbert Hahn) writes:
>> I've read that some time ago that the wavelet transformation
>> has been patended in the U.S.

> Do you remember where you read that? I'm finding it really hard
> to believe. The wavelet transform, wavelet packet transform, etc.
> are in use all through the sciences.

And I realized that I was far too vague, because I have some strong opinions on this.

(rant mode on)
I would not be surprised if some US lawyer tries to patent wavelet transforms but it boggles my mind that anyone would make the attempt. What aspect could they patent? If they try to patent one of the orthogonal basis functions, well there are an infinite number of them! So then we have (inf-1) left to use. And if they try to patent the transform technique, well that is simply a set of convolutions, which are simply multiplications. So are they going to patent multiplication on the computer?

I have heard of people in the digital signal processing field (don't know the details) patenting algorithms by implementing that set of algorithms into hardware. I think that is a dirty trick.

Wavelets have been around in concept since Fourier, in fact fourier analysis could be thought of as a subset of wavelet analysis, and I haven't heard of anyone trying to patent Fourier Transforms. OK, rant mode off.

"Christian Oehreneder" asks:

> I need wavelet software for IDL. Who knows where i can get it?

I decided that this is as a good a time as any to say this.

I've been working on IDL wavelet software for quite some time.
When it's complete, it will have _at least_ (more functions may
be added later) the following capabilities:

Discrete WT, Scalegram, Multiresolution Analysis, Wavelet Packet
Analysis, Wavelet Transform Compression, Wavelet Packet Compression,
Wavelet Threshold DeNoishing plus ~1 dozen 1D/2D Datasets
(+user-defined), and ~1 dozen generated signals (Doppler, Chirp,
Ramp etc)

I've implemented about 2/3 of the above.

I will need beta-testers for later this Fall.

I would welcome some interesting data sets.

But my software is *NOT* now "ready-for-prime time" !!

So consider the above only if you think you might want to try these
techniques sometime in the near future, but are not in a hurry to use
them now.

If anyone would like to be beta testers (you must be an IDL user)
and/or notified when it is complete, please email me (agraps@netcom.com)
and tell me:

1) your name and email address and
2) if you have a WWW browser (to see the development and give
feedback)

Amara

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********** **********

Amara Graps email: agraps@netcom.com
Computational Physics vita: finger agraps@sunshine.arc.nasa.gov
Multiplex Answers URL: http://www.amara.com/
********** **********

"Gentlemen! You can't fight here! This is the War Room!"
-Dr Strangelove
