Subject: multitaper spectral analysis code?
Posted by Robert Stockwell on Tue, 27 Nov 2001 16:16:15 GMT
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Greetings all,
does anyone have multitaper spectral analysis code
in idl (for instance from the percival and walden book)?

I looked at that in the distance past, but didn't get into
it very far.

Cheers,
bob stockwell

Subject: Re: multitaper spectral analysis code?
Posted by Klaus Scipal on Wed, 28 Nov 2001 10:17:07 GMT
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btw: the code attached in my posting doesn't save the derived mtm spectrum
nor does it display the result. but it shouldn't be a problem to take care
for that by you own (modify the routine mtm_spectral_analysis)

regards klaus

Klaus Scipal <kscipal@ipf.tuwien.ac.at> wrote in message
news:9u2co1qls1@news.tuwien.ac.at...
> Hi Bob
>
> I have once implemented the MTmethod in IDL 5.2. In fact I translated a C
> subroutine made available for public use by J.M Lees (you might want to
take
> a look at http://www.unc.edu/~leesj/mtm/ for articles on MTM the C code
and
> some documentation).
> I attached these routines so you can try working with them.
>
> They are not optimised for speed and efficiency and I am not one of these
> programmer wizs so don't expect great code. But they are working and as
far
> as I have tested them they derive the right results. Unfortunately I
didn't
> spend to much time for documenting the code so I recommend that you read
> some material about MTM and check the code once you have adapted it for
your
> purposes (test series are available on http://www.unc.edu/~leesj/mtm/).

>
> Klaus
>
>
>
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> Robert Stockwell <rgs1967@hotmail.com> wrote in message
> news:3C03BC4F.7000406@hotmail.com...
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Subject: Re: multitaper spectral analysis code?
Posted by Robert Stockwell on Wed, 28 Nov 2001 14:22:02 GMT
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Hello Klaus,
thanks for the response.
I saw what appears to be your second message, but I do not
see your first response on the newsgroup. Could you please
repost?

Cheers,
bob stockwell

Klaus Scipal wrote:

> btw: the code attached in my posting doesn't save the derived mtm spectrum
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Subject: Re: multitaper spectral analysis code?
Posted by Klaus Scipal on Wed, 28 Nov 2001 15:28:46 GMT
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I've sent a copy to your email address

klaus

Robert Stockwell <rgs1967@hotmail.com> wrote in message
news:3C04F30A.5040002@hotmail.com...
> Hello Klaus,
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Subject: Re: multitaper spectral analysis code?
Posted by Robert Stockwell on Thu, 29 Nov 2001 13:46:32 GMT
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Klaus Scipal wrote:

> I've sent a copy to your email address
>
> klaus

Thank you kindly Klaus. If I ever get around to it I
may (with your permission) put MT code along with several
other spectral analysis routines that I have up on my webpage.
Sort of a "spectral analysis toolkit" for IDL.

So, if anyone else has anything to contribute, drop
me a line.

Cheers,
bob
