
Subject: Re: I need a bit of help....Convol and functions
Posted by news.qwest.net on Tue, 03 Oct 2006 23:04:28 GMT
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<D.Kochman@gmail.com> wrote in message
news:1159908159.612660.56200@i3g2000cwc.googlegroups.com...

> `consum = convol([blank,sumex],sconfun,total(sconfun),CENTER=0)`

> So my big question is what is going on in convol? If I'm guessing
> correctly it seems like this is creating an array [blank,sumex] in
> essence to force an array upon sumex - but its a function.

[blank,sumex] is a one dimensional array (assuming X is) where the
actual "time series" (sumex) is being zero padded for 1024 points.

sconfun is the kernel

total(sconfun) is a scaling factor, ie the entire result gets divided by
this number

One big thing you should know is that convol() can do either a convolution,
or a correlation.

If the keyword "center" is set to one it does the correlation, and if it is
zero

then you get a convolution (or vice versa) and there may be the need to
reverse
the kernel beforehand.

Cheers,
bob
