
Subject: Re: The Behavior of CONVOL

Posted by [Christian Soeller](#) on Mon, 04 Nov 1996 08:00:00 GMT

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"Kevin R. Turpie" <turpie@seaeagle.gsfc.nasa.gov> writes:

- > I'm afraid you missed the point; normalization doesn't have anything
- > to do with it. It is the orientation of the kernel. In a convolution
- > the kernel "flipped" wrt to the function being convolved. In a
- > correlation is is not. With CENTER=1 (default), CONVOL uses the same
- > orientation as a correlation. With CENTER=0, it does not.

Your observation is correct. If you want to have the normal convolution behaviour you have to replace your kernel $k(u)$ by $k(-u)$ (here assuming a centered notation). I came across it when doing deconvolutions. Something to watch out for when using nonsymmetric kernels.

If it is not yet in the FAQ it should definitely go there.

Best regards,

Christian

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