
Subject: Re: Variance in sub-sections?

Posted by [Jaco van Gorkom](#) on Mon, 18 Feb 2002 14:04:23 GMT

[View Forum Message](#) <> [Reply to Message](#)

"Joshua Nipper" <nipperjc@ufl.edu> wrote in message

news:a4jph3\$gdi\$1@spnode25.nerdc.ufl.edu...

> I have a 512x512 image, and I would like to calculate the mean/variance in

a

> 3x3 neighborhood around every pixel. What would be the easiest way to do

> this w/out for loops?

Martin Downing once posted a nifty routine IMAGE_VARIANCE to the group.

Look up a thread called "efficient kernel or masking algorithm ? UPDATE"

on Google.

<http://groups.google.com/groups?hl=en&q=variance+kernel&meta=group%3Dcomp.lang.idl-pvwave>

Things should then be as simple as

variance = IMAGE_VARIANCE(image, 1, MEAN=mean) .

Jaco

PS: I posted without thinking too much on Friday, in response to your Kuwahara filter post. The variance I suggested was calculated with respect to a 'sliding' mean value, and probably not a very good choice for this kuwahara thingie.
