Subject: Re: filtering problem Posted by Margaret Journey on Fri, 17 Nov 2000 08:00:00 GMT

```
View Forum Message <> Reply to Message
This should do the trick.
Allan Wienecke
Visual Numerics, Inc.
Celebrating 30 Years as an Independent Software Vendor
; a is the array
: n is the kernel size
: t is the threshold
function dave, a, n, t
 m = a gt t
 k = replicate(1.0, n, n)
 return, a * avg(a) * convol(m,k) / (convol(m*a,k)+1e-30)
end
Dave Brennan wrote:
> Hi,
>
> i don't know if anyone can help but it's worth a try!
>
> I am trying to filter an array say (256x256) with a window of size 65x65
> which scans across the array pixel by pixel. It should compare the
> statistics of the area within the kernal with the global statistics of
> the image to produce a correction image. (This is a particular type of
> inhomogeneity correction)
>
> In detail: 'the algorithm should correct the pixel value by a
> multiplicative factor found by dividing the global mean by the window
> mean'
> A further problem is I want the ability to set a threshold where data
> below the threshold are not included in the statistics and not corrected
> by the algorithm.
> At first I though I could just use convol to produce a correction map
> but this does not allow me to set a threshold.
>
> Does anyone have any ideas? It needs to be as fast as possible as it
> will work on 128 images at a time.
```

>

- > Cheers
- > Dave Brennan