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Subject: Re: Local Maxima of 2D array  
Posted by [DavidPS](#) on Wed, 20 Jan 2010 15:35:17 GMT  
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On Jan 19, 5:48 pm, Robin Wilson <r.t.wil...@rmpic.co.uk> wrote:

> Hi,  
>  
> Another question from me I'm afraid. I'm trying to implement a routine  
> which needs to be able to calculate the local maxima of a small window  
> moved across an array. That is, I have a large array and I will need to  
> move a small 3x3 array across it, each time working out what the maximum  
> value of that array is and storing its index (or selecting it in some  
> other way).  
>  
> I've investigated various methods for doing this, including the dilate  
> method, but I can't seem to get them to work properly.  
>  
> Is there any good (as in fast, efficient and elegant) way of doing this,  
> or will I be reduced to using for loops and lots of IF statements?  
>  
> Best regards,  
>  
> Robin  
> University of Southampton

Hi Robin,

I asked something similar a few weeks ago, but I was looking for a local minima in a running window of 9. I think you can use the same the guys suggested to me then, just changing the sign of the function to convolve (so you find a max). It's in here:  
<http://tr.im/L0ob> [groups.google.com]

David

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