
Subject: Re: Local Maxima of 2D array
Posted by [rogass](#) on Thu, 21 Jan 2010 14:55:02 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 19 Jan., 18:48, 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

Dear Robin,
did you tried to reform that array to 3D and to find the MAXima and
their indices together with the keyword DIMENSION=3? Don't forget that
REFORM 'forms' rowwise.

Cheers

CR
