
Subject: Re: Derivative

Posted by [wxf](#) on Tue, 01 Jul 2008 19:11:57 GMT

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On Jul 2, 3:05 am, Vince Hradil <hrad...@yahoo.com> wrote:

> On Jul 1, 1:58 pm, w...@bao.ac.cn wrote:

>

>> I have a 2-D array (a image) A. I want to know its partial

>> derivatives along X direction and Y direction.

>> $dA(x,y)/dx=B$

>> $dA(x,y)/dy=C$

>> B and C should also be 2-D array.

>> I want to know if IDL has some function or operator can do this job

>> directly.

>> If it has not those I wanted, then I must write some program according

>> to "Spline and Lagrange".

>> I am not a foolish boy. But I am a lazy boy.

>> Who can tell me if IDL can do this job for me?

>> Thanks!

>

> have you tried deriv()? Have you tried:

> IDL> ?

yes,I have used deriv() before.But it only works for one dimension.

If I use it to differentiate a 2-D image along one direction, then I must use "for i= , do beginendfor". That is too slow.

Could you give me more hints?
