Subject: Re: 3D Curve Fitting
Posted by Rob.Dimeo on Wed, 01 Oct 2008 11:08:29 GMT
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On Oct 1, 4:55 am, Wox <nom...@hotmail.com> wrote:
> On Wed, 1 Oct 2008 00:35:08 -0700 (PDT), jaz <jazpear...@gmail.com>
> wrote:
>
>> Yeah i've seen this, but it only seems to do up to 2D. Or am i missing
>> a trick here?
>
> If you have 2 independent and 1 dependent variable (e.g. z as a
> function of x and y), mpfit can be used. In IDL's CURVEFIT
> terminology, x would be [x,y] and y would be z.
>
> If you have 3 independent variables, you can't use mpfit or curvefit
> or whatever. There was a recent thread about fitting a plane through
> 3D points:http://groups.google.com/group/comp.lang.idl-pvwave/b rowse_thread/thr...

Using either MPFIT or MPCURVEFIT, I am not aware of any such limitation on the number of independent variables with which one can fit a user-supplied model to data (other than computational resources). The concatenation method mentioned above works. Your model function just needs to know how to disentangle these independent variables, x1,x2,x3,..., from your X variable.