
Subject: Re: 2-d fitting

Posted by [Craig Markwardt](#) on Wed, 12 Nov 2008 07:02:35 GMT

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On Nov 12, 12:25 am, xqinshan <xqins...@tom.com> wrote:

> Hi,

> I have a set of data zi at indepent vaiables (xi,yi). I want to get
> coefficients of a fiting function such as $f(x,y)=a*f1(x,y)+b*f2(x,y)$
> $+c*f3(x,y)+...$, $f1(x,y), f2(x,y)...$ are given by myself. If $f1(x,y), f2$
> $(x,y)...$ are polunomials, we can use sfrit or mpfitfun to do it. Are
> there any routins to do it?

Yes, but MPFITFUN is not limited to polynomials, it can be any
function you wish, including multiple variables.

<http://www.physics.wisc.edu/~craigm/idl/fitqa.html#multivar>

If the user function is a linear combination of known functions, then
SVDFIT can also be used.

Craig
