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Subject: Re: 2-d fitting

Posted by [xqinshan](#) on Thu, 13 Nov 2008 01:39:10 GMT

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> "xqinshan" <xqins...@tom.com> wrote in message  
>  
> news:2dec9a37-fe3b-4999-a80b-e47d06c5e13a@v22g2000pro.google groups.com...  
>  
>> 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 sfit or mpfitfun to do it. Are  
>> there any routins to do it?  
>  
>> thanks,  
>  
>> Xqinshan  
>  
> Just write out the A matrix (in  $Ax = b$ , where x is unknown, b is your data,)   
> and fire it off to the svd routines.  
>  
> The 'two dimensions' are just columns.  
> For instance:  
> 1, x,y,xy,x^2,y^2  
>  
> Cheers,  
> bob

Good! Thank you.

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