
Subject: Re: Fitting a second order polynomial with singular value decomposition
Posted by [R.G. Stockwell](#) on Fri, 04 Apr 2008 17:27:48 GMT

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"JoaoCarr" <jmbcarreiras@gmail.com> wrote in message
news:894d4397-ade3-4ea8-9f1b-97c309cb24fe@z38g2000hsc.google groups.com...

> Dear all,

>

> I'm trying to fit in IDL a function of the type:

>

> $y = a_0 + a_1x_1 + a_2x_1^2 + a_3x_2 + a_4x_2^2 + a_5x_3 + a_6x_3^2$

>

> I've tried to use svdfit but I believe this procedure only allows

> functions of the type $y=f(x)$.

>

> Any suggestion would be greatly appreciated.

You don't have to use svdfit, use the svd decomp routine (svdc, svsol).

You can make any matrix you like (i.e. any function, any dimensions)
