
Subject: Re: surface fit

Posted by [thompson](#) on Tue, 08 Nov 1994 15:24:44 GMT

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buteau@bali.saclay.cea.fr (A.Buteau 62 17) writes:

- > Has somebody written a function to make two-dimensional fits.
- > I mean a kind of `surface_fit` , but not only for polynomial function.
- > (I need to fit my surface with a gaussian and lorenz function).

- > Thanks in advance

One can use ordinary fitting routines for multidimensional fits. Suppose that one had a grid of X,Y points. One can then define an index S over all possible X,Y pairs. For example, if one had a grid of 10 X points by 10 Y points, then S would be an index running from 0 to 99.

One then is not fitting $F(X,Y)$ but $F(S)$. All one needs to do then is to write the definition of the function so that it can then determine $X(S)$ and $Y(S)$. A simple way to do this is through a common block.

Bill Thompson
