
Subject: Added GuessCoeff() to improve Fit() performance

Posted by [koldo](#) on Mon, 02 Feb 2015 08:24:38 GMT

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Fit() permits to adjust a series of data to a function through regression analysis.

As Fit() is for general use, it does not know special properties of equations to be fitted. This could be a problem if the initial conditions are not properly set, so in many cases Fit() will not converge.

To solve this it has been added GuessCoeff(). It permits to guess a proper initial conditions to let Fit() adjust successfully.

For example, SinusEquation represents $y = \text{offset} + A \cdot \sin(w \cdot t + \phi)$ equation, and now includes GuessCoeff(). This helps to fit raw data like shown here:

File Attachments

1) [img.jpg](#), downloaded 504 times
