Subject: Re: orthogonal distance regression
Posted by Paolo Grigis on Tue, 25 Oct 2005 07:38:41 GMT
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For *linear* regression, there exist sixlin.pro by W. Landsman
from the IDL astronomy library:

http://idlastro.gsfc.nasa.gov/ftp/pro/math/sixlin.pro

It computes 6 different kind of linear regression (x vs. y,
y vs. x, orthogonal etc.).

The programs implements the procedure described in

Isobe, Feigelson, Akritas, and Babu, Astrophysical Journal
Vol. 364, p. 104 (1990)

which has a nice overview of the effect of the different
linear regression methods for data sets where the spread
of the data is large. This of course apply not only to
astronomy but to other fields as well.

Ciao,
Paolo

Steve.Morris@libero.it wrote:
> Does anybody know if somewhere on the net there's a package to perform
> orthogonal distance regression ?
>
> I have found odrpack from netlibe.org, but I was just wondering whether
> an already idl cocked package exists...
>
> More generally, if anybody has already used such a technique, advices
> or tutorial are welcome :)
>
> Thanks in advance!
> S.
>