Subject: Re: Help setting up an array
Posted by davidf on Thu, 29 Mar 2001 15:34:11 GMT
View Forum Message <> Reply to Message

Peter Thorne (peter.thorne@uea.ac.uk) writes:
>
> It is a real world problem, believe it or not! We have a number of
> observational parameters which we wish to regress against possible
> modelled causes in a system containing "noise". Output from this
> regression is effectively a cloud of potential solution points, an
> n-dimensional PDF (probability density function) ellipsoid. Previously
> we have only considered ellipsoids as single pieces of data. However, in
> this system we wish to assess the consistency of the model system and
> therefore need to intercompare m n-dimensional ellipsoids (where m
> distinct realisations are made through the regression analysis).
> Effectively we need to set up a system whereby the null hypothesis is
> that all m fields gained are equivalent (are sub-sampled from some true
> population). To gain a quantitative measure of this statistic it is
> required to integrate the fields over the n-dimensional phase space
> which is common to the m fields and gain the maximum probability
> function from the m fields for this integral. Maximum because the
> ellipsoids are not expected to have equal variance, distributions or
> orientation in the regression phase space.
>
> Well, you did ask ...

Job Wanted:

Former IDL programmer seeking position with light programming
responsibilities. Has modest ability to get colors right.
Tennis court nearby a distinct advantage. All inquires kept
confidential.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155