Subject: Re: Constrained Optimization routine Posted by James Kuyper on Fri, 26 Aug 2005 15:05:49 GMT

View Forum Message <> Reply to Message

Gianluca Li Causi wrote:

- > Hi all,
- > I'm wondering if anybody knows an IDL routine to perform minimization
- > of a nonlinear function given functional constraints on the variables.

- > I mean: I would minimize a nonlinear F(x0,...,xn) subject to the
- > constraint G(x0,...,xn)=0, where G is another nonlinear function of the
- > same variables.

>

- > I know the very good TNMIN routine from Craig B. Markwardt, it can deal
- > very well with simple boundary constraints on each variable (e.g. xi >
- > low_boundary or xi < high_boundary), but it is not possible to define a
- > limit constraint which is a function of more variables.

Have you tried CONSTRAINED_MIN()? It sounds like exactly what you're looking for.