# Re: Free Nonlinear Optimization Package?

***Source:*** http://sci.tech−archive.net/Archive/sci.math.num−analysis/2005−05/msg00013.html


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- *Date*: 2 May 2005 18:47:56 GMT

In article <1114985981.673848.87020@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>,
<shahehe@xxxxxxxxx> wrote:
>I have an optimization problem where the objective function is
>nonlinear and there is no functional constraint. The feasible region is
>a box, i.e., the optimization variables satisfy the constraints
>
>xi_min <= x_i <= xi_max
>
>where xi_min and xi_max are the bounds for variable xi.
>
>Currently, I am using a general optimization package CFSQP to solve the
>problem. I would like to know if there is a more robust and more
>efficient free optimization package implemented in C or C++ that can be
>used to solve my problem, i.e., "nonlinear objective function, no
>functional constraint, and box shaped feasible region".

It may not be the right way to call it, but in my book specifying a
feasible region is the same as imposing constraints, though, I suppose
one may want to distinguish between constraints on design variables
and constraints on the function values ...

In any case, try

B. V. Sheela and P. Ramamoorty, SWIFT − A New Constrained
Optimizsation Technique, Comp. Meth. Appl. Mechanics and
Engineering, 6 (1975) 309−318.

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The 1 in the email address is fake
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- ***References***:
  - ***Free Nonlinear Optimization Package?***

◊ *From:* shahehe


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