Subject: Re: Broyden's method Posted by Craig Markwardt on Fri, 16 Jul 2004 21:07:03 GMT View Forum Message <> Reply to Message

schaa@geo.uni-koeln.de (Ralf Schaa) writes:

> Hi all,

>

- > I have this set of nonlinear equations, which I try to solve with the
- > Broyden function, which does give me a solution.
- > Unfortunately, depending on the initial guess, the solution varies a
- > lot.

>

- > So, does someone has a clue? for example to give the best initial
- > guess one could possibly make, or the use of another function ...?

>

- > Thanks in advance!
- > -Ralf

Greetings Ralf--

It may actually be worth trying a non-linear least squares solver. These solvers are in fact designed to solve sets of non-linear equations. You might consult the following example:

http://groups.google.com/groups?selm=onhehj83l5.fsf%40cow.ph ysics.wisc.edu

and the follow-up article.

Good luck, Craig

--

One in D. Mandaure add. Db. D. ... FMALL and increase (@DEMO)

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

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Subject: Re: Broyden's method

Posted by schaa on Sat, 17 Jul 2004 08:55:49 GMT

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Craig Markwardt <craigmnet@REMOVEcow.physics.wisc.edu> wrote in message news:<onk6x364qw.fsf@cow.physics.wisc.edu>...

- > schaa@geo.uni-koeln.de (Ralf Schaa) writes:
- > Greetings Ralf--

>

- > It may actually be worth trying a non-linear least squares solver.
- > These solvers are in fact designed to solve sets of non-linear
- > equations. You might consult the following example:

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>

> and the follow-up article.

- > Good luck,
- > Craig

Hi Graig,

I already read the thread and I had it in my mind to try your mpfit-routine, which I will try this weekend I guess (although we have the first sunny days since a long time here in germany...)

Best regards, Ralf