
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.physics.wisc.edu>

and the follow-up article.

Good luck,
Craig

--

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

Subject: Re: Broyden's method

Posted by [schaa](#) on Sat, 17 Jul 2004 08:55:49 GMT

[View Forum Message](#) <> [Reply to Message](#)

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:
>
> <http://groups.google.com/groups?selm=onhehj83l5.fsf%40cow.physics.wisc.edu>
>
> 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
