
Subject: Re: Genetic algorithms and curve fitting
Posted by [Allard de Wit](#) on Fri, 28 Mar 2003 16:10:37 GMT
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Rob Dimeo wrote:

> Hi,
>
> Over the past few years I have been writing IDL programs to analyze
> data by fitting to models using standard least-squares methods. The
> problems that we face here, however, sometimes are not amenable to the
> least-squares approach and, having multi-modal chi-squared surfaces,
> could benefit from a more robust global optimization. I have been
> working on a hybrid genetic algorithm/least squares function that
> appears to work "pretty well" for model fitting.
>
> Has anyone on this newsgroup you used GAs or GA hybrids for data
> fitting? I am seeking someone with whom I can "compare notes" and
> discuss what works well and what does not. I am happy to share this
> code with anyone (especially if you're interested in helping me
> improve it!)
>
> Many thanks in advance!
>
> Rob
> -----
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Hi Rob,

I do not have an extensive knowledge of GA techniques but for the relatively simple optimisation problems that I have used GA's for I used a so-called micro-GA which worked pretty well. I implemented the micro-GA in IDL code, you can find the code at www.xs4all.nl/~ajwwag/

As it this GA was my first attempt to write something in IDL using object-oriented programming, the programming style may be somewhat clumsy, any comments on the code (errors/fixes) are welcome. Maybe, it is usefull for you.

best regards,

