
Subject: Re: Genetic algorithms and curve fitting
Posted by [pford](#) on Wed, 23 Apr 2003 18:57:51 GMT
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"A. De Wit" <adewit@operamail.com> wrote in message
news:<3e8473ac\$0\$49109\$e4fe514c@news.xs4all.nl>...

> 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,
>
> Allard de Wit

I used a simple GA in the past written in C and called using
CALL_EXTERNAL. I will be happy to send this to you. I am in the SLOW
process of converting it to DLM on MacOS X. I have to relearn IDL and
learn Unix and gcc, etc.

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