View Forum Message <> Reply to Message On Jul 27, 2:13 pm, Chris <beaum...@ifa.hawaii.edu> wrote: > On Jul 26, 11:13 pm, "|Rob|" <r08...@gmail.com> wrote: > > >> Hi all, > >> I posted a guery on here about a year ago relating toneuralnetworks >> in IDL but I didn't get any response so I thought it might be worth >> trying again. >> The problem I'm currently working on for my PhD breaks down to >> matching a known pattern/signature against a huge amount of data to >> find cases where the pattern is present. >> I don't know that much aboutneuralnetworks (just a few undergraduate >> lectures on the basic principles) or exactly how I'd go about >> implementing something like this but it seems that IDL is fairly well >> suited to this kind of task due to it's ability to sort and match >> large arrays of data. >> Have many people worked onneuralnetworks in IDL before? I haven't >> had much luck searching the group for answers apart from a few old >> (and very old!) posts on the subject asking pretty much the same as I >> am. >> I'd much prefer to use IDL for this if possible but I'm starting to >> wonder whether something like Matlab might be better suited as there >> seems to be quite a bit more documentation and example code for using >> neuralnetworks in IDL. > >> Cheers >> Rob > I haven't used IDL for NN programming, though I've been interested in > the idea. > My suspicion is that, while you could probably implement a pre-learnedneuralnetwork in IDL, it would not be efficient at actually learning > the proper weights. Typical algorithms for learning NN weights (eg > backpropagation) are dominated by looping. IDL usually chokes on such > tasks unless there is a way to eliminate some of the loops by using > its optimized array operations. I may be wrong, but I don't think a

Subject: Re: Neural Networks

Posted by d.poreh on Tue, 12 Aug 2008 05:50:43 GMT

- > nonlinear, iterative process like backpropagation could be vectorized
- > very much.

- > For general info on implementing NNs, I might look at Tom Mitchell's
- > "Machine Learning," and maybe some open source implementations (like
- > JOONE for Java)

>

> chris

look at Morton Canty's book: Image aanalysis and pattern recognition for remote sensing page 100-Cheers