

Re: Hardware Neural Network

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- *From:* fpm@xxxxxxxxxxxxxxxxxx (Frank Miles)
 - *Date:* Fri, 2 Mar 2007 18:00:39 +0000 (UTC)
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In article <00kgu2dje30ku32m09j0gcplnqg2sp2k7i@xxxxxxx>, John Larkin <jjlarkin@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On Thu, 01 Mar 2007 18:40:25 GMT, Jan Panteltje <pNaonStpealmtje@xxxxxxx> wrote:

On a sunny day (Thu, 01 Mar 2007 08:03:47 -0800) it happened John Larkin <jjlarkin@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in <f8udu21d6234utpgpv202k0n5sgs9kodnl@xxxxxxx>:

I know it's an academic darling, but has anyone ever done anything genuinely useful with nn technology?

John

Speech recognition, look up dragon natural speaking. Also look up Liaw and Berger. Now ho is asking cryptic quatrions? Cannot you type neural net in google?

Oh, there are lots of hits, too many in fact. I was just wondering if any practical products have resulted. The cited applications seem to be stuff like spam detection, language translation, and pattern recognition, processes that really don't expect consistant accuracy.

I'd be reluctant to trust anything serious, like a control system that mattered, to an algorithm whose corner cases are undefined and probably not testable.

I've worked with a few academics that would shout "neural network!" (in one situation, two did it in precise unison) in response to nearly any problem they didn't have an analytic approach to. The suggestion was often beyond absurd.

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Is there any pattern recognition technology that doesn't suffer from the same problems? At least for complex signals? This is not to say that a truly refined technology (ideally) shouldn't be able to deliver consistent/provable/testable performance, or be open to inspection. But then the finest pattern recognizers – at least, in discriminating the most complex signals in significant noise – (trained people) don't meet this test, either. We have a long way to go in developing a technology that has the fine attributes that you seek.

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