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motivation, a summary of the most important equations relevant to the topic, and concludes with highly commented code for threaded computation on modern CPUs as well as massive parallel processing on computers with CUDA-capable video display cards. Source code for all routines presented in the book, and the



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Deep belief nets are one of the most exciting recent developments in artificial intelligence. The structure of these elegant models is much closer to that of

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recognize complex patterns by  
optimizing millions of parameters, yet  
this ...

**Deep Belief Nets in C++ and CUDA  
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In machine learning, a deep belief  
network is a generative graphical model,  
or alternatively a class of deep neural

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network, composed of multiple layers of latent variables, with connections between the layers but not between units within each layer. When trained on a set of examples without supervision, a DBN can learn to probabilistically reconstruct its inputs. The layers then act as feature detectors. After this learning step, a DBN can be further

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trained with supervision to perform  
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## **Deep belief network - Wikipedia**

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$$p(s_i = 1) = \frac{1}{1 + \exp(-b_i - \sum_j s_j w_{ij})},$$
  
(2.1) where  $b_i$  is the bias of unit  $i$ . If a logistic belief net has only one hidden layer, the prior distribution over the hidden variables is factorial because

## **A Fast Learning Algorithm for Deep**

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A fast learning algorithm for deep belief nets  
Geoffrey E. Hinton and Simon Osindero  
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Nets in C++ and CUDA C: Volume 3 by  
Timothy Masters (Apress, 2018).

Download the files as a zip using the  
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