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Binarized Neural Networks: Training Neural Networks with Weights and Activations Constrained to +1 or -1
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Binarized Neural Networks: Training Neural Networks with

An autoencoder is a type of artificial neural network used to learn efficient data codings in an unsupervised manner. The aim of an autoencoder is to learn a representation (encoding) for a set of data, typically for dimensionality reduction, by training the network to ignore signal $\hat{\epsilon}$ noise. Along with the reduction side, a reconstructing side is learnt, where the autoencoder tries to ...

Autoencoder - Wikipedia

Algorithm 1 Minibatch stochastic gradient descent training of generative adversarial nets. The number of steps to apply to the discriminator, k , is a hyperparameter. We used $k=1$, the least expensive option, in our experiments.

Generative Adversarial Nets - arXiv

Abstract: Based on a recent result in [13], in this paper, we extend it to stochastic evolution equations with jumps in Hilbert spaces. This is done via Galerkin type finite-dimensional approximations of the infinite-dimensional stochastic evolution equations with jumps in a manner that one could then link the characterisation of the path-independence for finite-dimensional jump type SDEs to ...

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Phase field models - Wikipedia

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A Hopfield network (HN) is a network where every neuron is connected to every other neuron; it is a completely entangled plate of spaghetti as even all the nodes function as everything. Each node is input before training, then hidden during training and output afterwards. The networks are trained by setting the value of the neurons to the desired pattern after which the weights can be computed.

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