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on Advanced Mean Field Methods organized by Manfred Opper and David Saad. The book The book discussed here is a collection of articles presented at the Workshop, with a few other field-

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Mean Field  $m_i = \tanh(X_j J_{ij} m_j)$ ;  $i = 1, \dots, N$  (1) Note I The intractable task of computing marginals has been replaced by the problem of solving a set of nonlinear equations. I These MF equations are run sequentially, i.e. we solve for all  $m_j$  except  $m_i$ . I In each step MF free energy is convex. Equation (1) finds minimum in one step.

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July, 2007 STATPHYS23 (Genova, Italy) 1 Advanced Mean Field Methods in Quantum Probabilistic Inference Kazuyuki Tanaka Graduate School of Information Sciences,

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Advanced mean-field theory of the restricted Boltzmann machine Haiping Huang\* and Taro Toyozumi  
RIKEN Brain Science Institute, Wako-shi, Saitama 351-0198, Japan (Received 4 February 2015; published  
18 May 2015)

Learning in restricted Boltzmann machine is typically hard due to the computation of gradients of log-likelihood function.

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