

Exercise 3 (19.10.2015)

1) Read chapter 2 from Haykin's book (2nd edition), till the section 2.6 inclusive and then start from 2.10 till 2.12 inclusive.

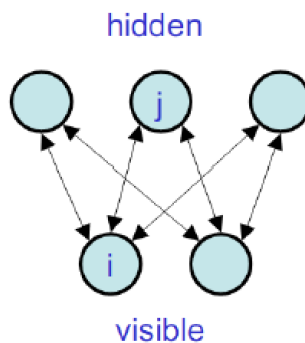
Summarise or sketch your insights in mind-map or an outline or a summary.

2) From the Chapter 2 Haykin's book solve 2.1

3) From the Chapter 2 Haykin's book solve 2.10

4) From the Chapter 2 Haykin's book solve 2.21

5) A simple network is given below (from lecture slides). You have to update the weights **once** using Boltzmann learning for this network. Please do calculations by hand or by using MATLAB or Python.



Use random numbers to initialise the weights. For training use a training set as $[(0, 1), (1, 0)]$ or any training set of your choice.

6) Please upload 3 questions and their brief answers on the reading material in a separate txt-file.