

ELEC 502 / COMP 502
Spring 2008

Neural Networks and Information Theory I.

(Neural information processing)

Review of major Artificial Neural Network paradigms.

Analytical discussion of supervised and unsupervised learning. Emphasis on state-of-the-art Hebbian

(biologically most plausible) learning paradigms and their relation to information theoretical methods.

Applications to data analysis such as pattern recognition, clustering, classification, blind source separation, non-linear PCA, projection pursuit, independent component analysis.

Course involves a 1-month project to solve real problems

You can bring your own!

More at

<http://www.ece.rice.edu/~erzsebet/ANNcourse.html>

or inquire in DH 2040