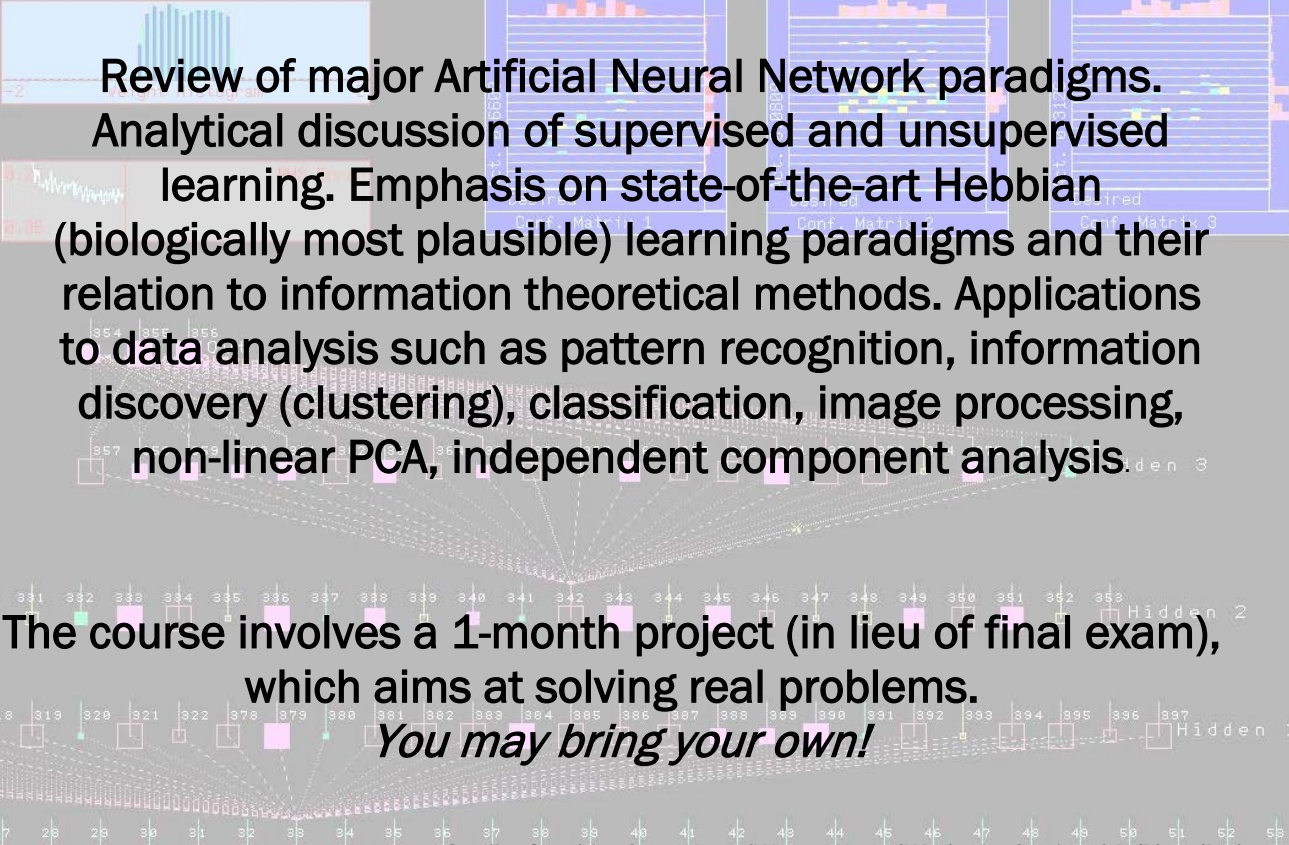


COMP / ELEC / STAT 502
Rice University

Neural Machine Learning 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, information discovery (clustering), classification, image processing, non-linear PCA, independent component analysis.

The course involves a 1-month project (in lieu of final exam), which aims at solving real problems.

You may bring your own!

Credit: Graphics from NeuralWare's NeuralWorks Professional II/Plus display.

More at

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

or inquire in DCH 2082