

1 COSC 4P76 SEMINAR TOPICS

1.1 Thursday, March 22nd, 2012

Principle component analysis (PCA): An introductory overview tutorial (**Arash**)

Feature Selection (**James**)

Clustering and K-means variants (**Michael W. Young**)

1.2 Tuesday, March 27th, 2012

K-nearest neighbor algorithms and applications (**Dennis**)

Learning scheduling control knowledge through reinforcements (**Justin Chan**)

NERO:Neuro-Evolving Robotic Operatives (**Blair**)

Reinforcement learning applications (**Kevin**)

1.3 Thursday, March 29th, 2012

Evolutionary Robotics (**Kyle**)

Evolving Neural networks on GPUs (**Nik**)

Case based reasoning for Spam Filtering (**Michael**)

Neural networks in Financial Applications (**Andrew**)

1.4 Tuesday, April 3rd, 2012

Neural networks in Financial Applications - PART II (**Ron**)

Ensemble learning (**Randall**)

Applications of Self-organizing maps (**Kelly**)

Self-organizing maps for image analysis (**Victor**)

1.5 Thursday, April 5th, 2012

Machine vision applications (**Mitch**)

Machine Learning in medical application (**AJ**)

Applications of feed-forward neural networks (**Ten**)

Application of Naive Bayes classifier (**Tony**)

1.6 Extra topics for topic switch

Support Vector Machines

Bayesian Belief Networks