

The Department of Computer Science and Engineering

University of Nevada, Reno

cordially invites you to a Master's colloquium

**Neocortical Virtual Robot:
A framework to allow simulated brains to
interact with a virtual reality environment**

A thesis submitted in partial fulfillment of the
requirements for the degree of Master of Science
in Computer Science and Engineering.

by

Thomas J Kelly

Abstract:

The NCS (NeoCortical Simulator) is a neural network simulator capable of simulating tens of thousands of neurons in real time. However, in reality, the brain does not operate in a vacuum, but is exposed to real world stimuli that correspond to physical objects. In order to supply such an environment for the simulated neural network, we have created the NeoCortical Virtual Robot framework, which allows researchers to build 3D environments for simulated brains to interact with.

3:00 pm, Tuesday, April 28, 2015

Scrugham Engineering and Mines (SEM) room 201

Committee: Dr. Fred Harris, Dr. Sergiu Dascalu, and Dr. Yantao Shen