

# **Cognitive Modeling – Schedule**

CSC592CM

Fall 2006

Instructor: Dr. Lutz Hamel

## **Introduction**

**9/14**

“Cognitive Architectures and General Intelligent Systems” - **Dave**

“Toward Virtual Humans” - **Webster**

## **Semantic Networks**

**9/21**

“Role of Knowledge in Discourse Comprehension”, Cognitive Modeling, Chap 1 - **Deborah**

**9/28**

no class

## **Rules**

**10/5**

“ACT: A Simple Theory of Complex Cognition”, Cognitive Modeling, Chap 2 - **Adam**

**10/12**

“How People Learn to Skip Steps”, Cognitive Modeling, Chap 19 - **Rajesh**

## **Simple Heuristics**

**10/19**

“Fast and Frugal Heuristics”, Simple Heuristics, Chap 1 - **Wei**

“The Recognition Heuristic: How Ignorance Makes Us Smart”, Simple Heuristics, Chap 2 - **Matt**

**10/26**

“How Good are Simple Heuristics?”, Simple Heuristics, Chap 5 - **Kevin**

## **Concepts**

**11/2**

“Feature-Based Induction”, Cognitive Modeling, Chap 31 - **Steve**

## **Analogy**

**11/9**

“Analogical Mapping by Constraint Satisfaction”, Cognitive Modeling, Chap 27 - **William**

## **Neural Networks**

**11/16**

“How Neural Networks Learn from Experience”, Cogn. Model, Chap 6 - **Zameer**

“Learning Representations by Back-Propagating Errors”, Cogn. Model., Chap 8 - **Zameer**

“The Hopfield Model”, Cogn. Model., Chap 7 - **Andrew**

**11/23**

no class

**11/30**

“Finding Structure in Time”, Cogn. Model., Chap 10 - **Mike**

## **Emotions**

**12/7**

“Context, Cortex, and Dopamine: A Connectionist Approach to Behavior and Biology in Schizophrenia”, Cogn. Model., Chap 14 - **Noah**