COSC 620: Advanced Topics in Intelligent Systems

Syllabus

Fall 2011

Instructors: Dr. Lynne E. Parker

Professor and Associate Head, Department of Electrical Engineering and Computer Science

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Office Hours: Tuesday/Thursday: 1:30-2:00PM, 3:30-4:00PM

(or send email for appointment at another time; or, just stop by when I'm in my office)

Dr. Michael Berry

Professor and Associate Head, Department of Electrical Engineering and Computer Science

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Office Hours: TBA

Time and Place: Monday/Wednesday, 10:00-11:00AM, Claxton 202

Course Webpage: http://web.eecs.utk.edu/~parker/Courses/CS620-fall11

Course Description:

This course will investigate advanced topics in intelligent systems, especially as it relates to machine learning. A key objective is to have students work on projects that create new research capabilities within the scope of the Center for Intelligent Systems and Machine Learning (CISML) (URL: http://cisml.utk.edu). Student projects will be pursued in small groups, with topics tailored to the research emphases of CISML faculty. Student work will be in the form of new idea development (presented to the rest of the class via presentations) and the implementation of those ideas (reported in class presentations and project writeups). No exams will be given.

Prerequisites: Familiarity with concepts of machine learning and computer science (algorithms, data structures, and complexity), and the ability to program algorithms in a language of your choice (e.g., C++ or Matlab)]. Completed at least one course in machine learning at UTK. At least 2nd year Ph.D. student.

Evaluation:

Grading will be based 85% on project development and 15% on class attendance, discussion, and participation.

Final grades will be determined by overall average as follows:

A: 90 - 100C+: 75-79.9B+: 85-89.9C: 70 - 74.9B: 80 – 84.9 D: 60 – 69.9

F: 0 - 59.9