CS 795/895 Intelligent Internet Databases

Syllabus
Dr. Stewart Shen
Office hours: M., T. and W. 3pm-5pm
Office: E&CS 3204
Class meetings: E&CS 2120, Mondays 7:10pm-9:50pm

Sophisticated Internet database applications, dealing with vast amounts of data on the
Internet, weaknesses of the current information sources, some "intelligent" Internet
systems today, community-oriented interaction patterns, researches in syntactic and
semantic approaches, new approaches in consumer electronic commerce, new approaches
in B2B electronic commerce, discovery and analysis of information sources, the
Semantic Web initiative.

Prerequisites: CS418/518 or CS419/519

Textbook and references:
Course handouts and various professional papers.
Grigoris Antoniou and Frank van Harmelen, A Semantic Web Primer, the MIT Press,
John Davies, Dieter Fensel, and Frank van Harmelen, (eds.), Towards the Semantic Web,

Approach:

- Studying the Internet in the past, current, and the foreseeable future, with the
  emphasis on its intelligent use

- In the research spirit, learning in our subject domain
  - What have been done
  - How the current efforts are
  - What may be done in the foreseeable future
  - What the efforts have been

- Announcements and weekly course handouts will be posted in the BB

- Other requirements for the students
  - Writing a research paper in this direction, or
  - Implementing a project in this direction

Grading:
• Class presentation 20%
• Term paper/project 40%
• Exams: in-class midterm 20%, take-home final 20%

Honor Code

The University honor code applies to all project or paper components, and examinations; while verbal discussions among individual class members is encouraged, any work turned in for a grade should be the work of the person turning the component in for credit and for this course only. Design, test data and code sharing is a violation of the honor code. Any work you turn in for credit must be by your own.