CIS 571 Syllabus (Winter 2013)

Web Services

1 General Information

- Professor – Dr. Brahim Medjahed.
- When – Tuesday and Thursday: 4:35 pm - 5:50pm.
- Where – PEC 1340.
- Office Hours – Tuesday and Thursday 2:00 pm - 4:00 pm; or by appointment.
- E-mail – brahim@umd.umich.edu
- Phone – (313) 583 6449.
- Lecture notes and course material/information will be posted on VLT.

2 Text Book


3 Current Catalog Description

In this course, we study the major concepts and techniques for enabling Web service based interactions on the Web. The objective is to familiarize the students with the recent trends in industry and academia to address Web service research issues. The course will address various aspects of Web services including the reference model for Web services (UDDI, SOAP, WSDL), Web service composition, semantic Web services, security/privacy in Web services, and overview of Web service standards (BPEL4WS, WS-Security, etc.) Participation in major projects is at the core of this course.

4 Course Objective

The objective of this course is to familiarize the students with the recent trends in industry and academia to address Web service research issues. The aim is to get the students more involved in one or more of the topics related to Web services.

5 Course Policy

- All students must respect the statement on academic conduct (please, see Section 12).
- Please read your email regularly for announcements.
• You are expected to return your assignments at the due date. Late assignments (project, presentation) will be penalized 5 points off for each late day. Assignments will not be accepted after seven (7) days.

6 Interaction

I will create a topic in VLT’s question board about each topic/chapter. Students are encouraged to actively participate in the question board by submitting questions, answers, useful links, etc. related to each topic. 5% of the total grade will be devoted to student participation and interaction.

7 Project, Paper Presentation, and Exams

• There will be one (1) individual project. At the end of the project, you will have to submit a report and present a project demo showing the major features of your implementation (no more than 10 minutes).

• I will provide a list of research papers that cover the course topics. Each student will do a presentation about one (1) assigned paper and submit a one-page summary.

• The course will have a final exam but NO midterm exam.

8 Main Topics

The course will focus on the following topics:

• XML, DTDs, and XML Schema.
• Introduction to Middleware and Web Services.
• Reference model for Web services (UDDI, SOAP, WSDL).
• RESTful Services.
• Web service composition.
• Web service coordination.
• Web service transaction.
• Security in Web services.
• Overview of Web service standards (BPEL4WS, WS-Policy, etc.)

9 Grading

• Project: 40%.
• Paper Presentation: 15%.
• Participation and Interaction: 5%.
• Final Exam: 40%.
10 Important Dates

- Project
  1. Posted: 01/15/2013
  2. Due: 04/11/2013

- Paper Presentation
  1. Posted: 02/05/2013
  2. Due: 02/21/2013

- Final Exam: Friday, April 26th, 2013, 6:30pm-9:30pm (to be confirmed).

11 Disability Resource Services

The University will make reasonable accommodations for persons with documented disabilities. Students need to register with Disability Resource Services (DRS) every semester they are enrolled for classes. DRS is located in Counseling & Support Services, 2157 UC. To be assured of having services when they are needed, students should register no later than the end of the add/drop deadline of each term.

12 Statement on Academic Conduct

The University of Michigan - Dearborn values academic honesty and integrity. Each student has a responsibility to understand, accept, and comply with the university’s standards of academic conduct as set forth by the Code of Academic Conduct, as well as policies established by the schools and colleges. Cheating, collusion, misconduct, fabrication, and plagiarism are considered serious offenses. Violations will not be tolerated and may result in penalties up to and including expulsion from the University.