CIS 6800 - Human Computer Interaction & Interface Design (online) - Fall 2013

Orientation

Class hours: Online.

Deadline for the first login: August 28, 2013.

Instructor: Dr. Alexander Yemelyanov
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GENERAL INFORMATION:

This course will be conducted online by using the GeorgiaVIEW (Desire2Learn) Learning Management System. How to Log in to GaVIEW:

On the GSW GaVIEW page, click the link Login to GaVIEW, and enter your username and password.
- Your username is the first part of your RADAR e-mail address (everything before the @ symbol).
- Your password is the same as your RAIN PIN number (password).

Class Website: https://gsw.view.usg.edu
- contains the course syllabus, class notes, class announcements, test dates, and other information for the course.

COURSE DESCRIPTION:

This course will discuss interactive systems, human user, channels of communication; theories of human memory; variability and limits of human capabilities; theories of human reasoning and problem-solving, tasks and strategies, interactive devices and technologies, design of interfaces, dialogue design and styles; new ideas in interfaces, tools and techniques for the construction of interfaces, and methods of evaluation.

COURSE OBJECTIVES:

After completing this course, students should be able to
1. Design software interfaces that are appropriate for the user.
2. Apply a variety of interface design strategies.
3. Evaluate the quality of software interface.

COURSE OUTLINES:

1. History of HCI
2. HCI Frameworks and Paradigms
3. Interaction Frameworks
4. Interaction design
5. Human abilities
6. HCI in the software process
7. Design process. Prototyping
8. Implementation support
9. Evaluation techniques
10. Handling errors
11. Universal design
12. GOMS and other cognitive models
13. Capturing requirements
14. Task analysis
15. Sensor-Based Interaction
16. Computer-Supported Cooperative Work and Groupware
17. Web design
TEXTBOOKS:

REQUIRED SOFTWARE:

CogTool 1.1.5 for Windows. CogTool is an open source, general purpose user interface prototyping tool that uses a human performance model to automatically evaluate how efficiently a skilled user can do a task on a design. CogTool was developed at Carnegie-Mellon University, and is available for download from the CogTool community site at CMU. Access is also provided through GSW Virtual Lab.

COURSE WORKLOAD:

- One semester-long interface **team project** – 30%
- **4 assignments** – 30 %;
- **2 tests** (20 + 20 %).

ATTENDANCE POLICY:

- Student must access the class website at least three times a week to check emails and schedule.

STUDENTS WITH DISABILITIES:

A student requesting classroom accommodations or modifications due to a documented disability must notify me within the first two weeks of the semester. If the student has not already done so, he or she must contact the Office of Disability Services in order to receive these accommodations and modifications. The Office of Disability Services is located in Sanford Hall, room 101, and the phone number is 229-931-2661.