

# CmpE 496 Human Computer Interaction

Fall 2007

**Fikret Gurgen**

Class time: W ThTh 3 4 5      Off hours: M 1 W 23 and any time available

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## Textbooks:

- Designing the User Interface by Ben Shneiderman and Catherine Plaisant, Fourth Edition-Addison Wesley Longman, 2005. (Web site: <http://www.aw-bc.com/dtui/>)
- Designing the User Interface by Ben Shneiderman, Third Edition- Addison Wesley Longman, 1998. (Web site: [www.aw-bc.com/DTUI3/](http://www.aw-bc.com/DTUI3/))
- <http://pages.cpsc.ucalgary.ca/~saul/>
- HCI Models, Theories and Frameworks (Toward a multidisciplinary science) edited by John M. Carroll, Morgan Kauffmann, 2003.

## The other references:

- HCI Models, Theories and Frameworks (Toward a multidisciplinary science) edited by John M. Carroll, Morgan Kauffmann, 2003.
- Human-Computer Interaction Alan Dix et al., Prentice Hall, Third Edition 2004.
- Human-Computer Interaction by Jenny Preece et al., Addison Wesley Longman, 1994.
- Interaction Design – beyond the human computer interaction, Y. Rogers, H. Sharp, J. Preece, John Wiley, 2002.
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## Tentative Topics:

1. Introduction to HCI and issues (notes available)
2. Human factors of the interactive software: software design methodologies (notes available)
3. Theories, principles, and guidelines: motor behavior models for human computer interaction (HCI Models, Theories by Kauffmann, Ch.3)
4. Theories, principles, and guidelines: task centered and user centered system design (notes available)
5. Theories, principles, and guidelines: evaluating interfaces with users (notes available)
6. Software Tools (Ch. 5 Shneiderman and Plaisant ) and Direct manipulation and virtual environments (Ch. 6 Shneiderman and Plaisant)

7. Task Related Menu Organization: menu selection, form filling, and dialog boxes (Ch. 7 Shneiderman and Plaisant) - Command and natural languages (Ch. 8 Shneiderman and Plaisant) - Interaction devices (Ch. 9 Shneiderman and Plaisant)
8. Models of Response-Time Impacts (Ch. 11 Shneiderman and Plaisant) Balancing Function and Fashion (Ch. 12 Shneiderman and Plaisant)
9. User Manuals, Online Help, and Tutorials (Chapter 13 Shneiderman and Plaisant) – Information search and Visualizaiton (Chapter 14 Shneiderman and Plaisant)

### **Presentations:**

(1 presentation + 1 project presentation) will be required.

### **Homeworks & Project:**

Homeworks (at home or in class) will be given.

A project will be submitted (presented) at the end of the semestr.

### **Evaluation for the course:**

(Midterm(s) (30%)) + (Homeworks + Presentation + Project + Quizzes (35%)) + (Final 35%) (+- 5% may be changed by the instructor)

### **Some of web sites:**

<http://www.aw-bc.com/dtui/>

<http://www.id-book.com/>

<http://pages.cpsc.ucalgary.ca/~saul/>

<http://www.cs.tufts.edu/~jacob/171/>

see the others from internet.....

### **Important rules:**

**Attendance:** is required! (2/3 of the total number of classes must be attended)

**Late presentations and projects** will be graded as 0.