Department of Computer Science

College of Engineering, University of Nevada, Reno

CS 620 Human Computer Interaction

Midterm Exam #1

October 18, 2012

| Test type: | Closed-book examination |
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| Number of questions: | 7 |
| Total points: | 65 |
| Test weight: | 14% of the course grade |
| Time: | 70 minutes |

Questions:

- 1 Comment on the significance of achieving *cultural and international diversity* from the perspective of universal usability. Indicate at least 6 concerns or items for internationalization (e.g., date and time formats). [10 points]
- 2 Consider the following four *primary interaction styles*: direct manipulation, menu selection, form fill-in, and command language. For each of them indicate two advantages and one disadvantage. [10 points]
- **3** Indicate what Shneiderman and Plaisant (the textbook's authors) consider to be *the four pillars of successful user-interface development*. Briefly explain why each of these pillars is considered important for the user interface design process (2-4 lines each). [10 points]
- **4** Describe <u>one</u> of following expert review methods: *heuristic evaluation* or *cognitive walkthroughs*. [10 points]
- 5 Choose <u>one</u> of the following types of usability testing: *paper mockups and prototyping, discount usability testing,* or *remote usability testing.* Describe the chosen method and indicate its advantages and disadvantages. [10 points]
- 6 Explain what is meant by *virtual reality* and by *augmented reality*. Also, briefly comment on three technologies (e.g., visual display) important for the creation of successful virtual environments. [10 points]
- 7 Briefly describe an application (existing or potential) involving <u>either</u> *virtual reality* or *augmented reality*. Explain what benefits the application would bring to its users. [5 points]