Department of Computer Science
College of Engineering, University of Nevada, Reno
CS 420 Human Computer Interaction
Midterm Exam #2
November 27, 2012

Test type: Closed-book examination
Number of questions: 6
Total points: 60
Test weight: 17% of the course grade
Time: 70 minutes

Questions:

1. Chose 3 out of the following 6 types of non-standard interaction devices: multi-touch touchscreens, bimanual input devices, foot controls, eye-trackers, multiple-degree-of freedom devices, and tangible user interfaces. For each of the selected three types, provide a brief description and suggest a couple of applications in which they can be used. [10 points]

2. In relation with collaborative interactions and interfaces, explain what is meant by: teleconferences, collaboratories, and telepresence. [10 points]

3. Consider web page design and indicate 5 mistakes that should be avoided when presenting web-based information (an example of such mistake is “burying information too deep in a web site”). Briefly explain why it is important to avoid each of the 5 possible mistakes. [10 points]

4. Indicate at least 6 advantages (or “positive sides”) and at least 4 disadvantages (or “negative sides”) of using online documentation. [10 points]

5. Consider the following types of visualization data: multidimensional data and temporal data. Briefly describe each of the two types, give a couple of application examples for each, and indicate at least two tasks that the users can perform on each type of data. [10 points]

6. Data visualization involves 7 typical basic user tasks (an example of such task is “zoom”). Briefly describe 5 of such tasks and explain why they are useful. [10 points]