

**Assignment 3 – 3DUI Survey Paper**  
**CAP6121**  
**Due: 3/16/16 11:59pm**

In this assignment, you will write a paper surveying a particular topic in 3D user interfaces. The goal of the assignment is for you to learn about current research in the 3D UI field.

**Instructions**

For this paper, you are to choose a particular topic in 3DUIs and write a survey paper on one of them. However, the key to this paper is that it must focus on current research, from 2005 to the present. Thus, you will have to scan the literature to find the appropriate material. Your survey should NOT be a rehashing on what is covered in the 3DUI book. You can consider this paper a follow on to the material presented in the book.

Some potential topics include:

Input Devices  
Visual Displays  
Haptic Devices  
Navigation  
Selection and Manipulation Techniques  
System Control  
Augmented Reality  
Mixed Reality

You can use this survey paper as the literature search for your final projects and to help choose a paper to present in class.

To get you started the following conferences and journals are a good place to start:

IEEE Virtual Reality  
IEEE Symposium on 3D User Interfaces  
IEEE Haptics Symposium  
ACM User Interface Software and Technology  
ACM Virtual Reality Software and Technology  
Eurographics Virtual Environments  
Presence  
Journal of Virtual Reality  
Journal of Human-Computer Studies  
ACM Conference on Computer Human Interaction

The length of the paper should be as long as it needs to be. You will be graded on clarity of exposition on thoroughness of your survey.