

# COMPSCI 715 - Group Project

*Final Report and Code Due: Monday 22nd October*

## SIGGRAPH 2006/2007 Project

### Aims:

To study the latest research in computer graphics  
To develop research, writing and presentation skills  
To develop group, communication and delegation skills

### Description

The main purpose of this project is to explore some of the latest research in computer graphics; To gain an in-depth understanding you'll have to read and understand a paper, published either at last year's SIGGRAPH conference or a pre-print of one that is to be published this year in August. You will need to find other sources on the topic and create some sort of proof of concept implementation to demonstrate the findings of your research and relevant previous concepts.

Written and oral presentations are designed to share your newfound knowledge with your classmates and to demonstrate an ability to develop and present your own research.

### Due date requirements and breakdown

#### Topic Selection and Group formation

*Monday 23rd July 9:00am*

How this is going to work: Hopefully the groups will be self-organizing, failing that it will be random distribution. Each group will be assigned into a random order and topic selection performed using this order. There can be no more than 2 groups focusing on the same topic.

#### Initial report

*Wednesday 12 September 9:00am*

A short (max 2 page) report detailing the scope of the project, initial research findings, implementation and progress. The focus is on ensuring that work has begun and that the group is working together. This report should include answers to the following questions:

- What are the three most important areas of background knowledge for understanding this paper? ..
- What are three areas of the paper that are the most difficult to understand (be specific)?
- What implementation are you proposing to do (need not be the whole paper and many include implementing other techniques)?
- What experiments will you run using your code?
- What resources are available (lectures, tutorials, online code etc)?
- How will you divide up the work?

*Submit:* Nominated member of group is to submit one plain text .txt or formatted .pdf file to the assignment dropbox. Each member of the group (including the nominated member) is to submit a one paragraph plain-text document detailing how the group dynamics are.

#### Project Assistance

*Week beginning Monday 1 October*

The lectures of this week will be foregone and instead assistance will be given with the various projects. Each group must show up on at least one of the days and it is encouraged that you attend all three lectures and participate in the problem solving of other group's issues.

#### Presentation

*Week beginning Monday 8 October*

Each group will give a presentation explaining its topic and its results so far. Each presentation will be 15min long followed by 10min of questions so be efficient about the presentation of your material. Not all group members have to be presenters but because the whole group shares the mark for this part you should indicate in the work breakdown part of the final report why the allocation was made.

#### Final Report

*Monday 22 October 9:00am*

Report 20-50 pages in length detailing all work done by the group. The first five pages should be in the style of a scientific paper followed by a more comprehensive description that can detail implementation specifics and focus more on background material. A more detailed description of the breakdown of this report will be provided soon.

*Submit:* Nominated member of the group is to submit the final report rendered to a pdf document. Each group member (including the nominated member) must also submit 1-2 paragraphs detailing group dynamics and their contribution to the project.

#### Marks Breakdown

(2 marks) Initial Report  
(6 marks) Presentation  
(12 marks) Final Report and Implementation