

## COMPSCI 715S2C 2003

# *Preview* of the Second Half of the Course: Research Frontiers

Lecturer: Kevin Novins

### Second Half Aims:

- To identify active areas of computer graphics research.
- To develop research, writing and presentation skills.
- To work individually and in groups to study a few areas of graphics research in depth.

### Second Half Overview:

The main purpose of the second half of the course is to develop the research skills necessary to keep up with the state of the art in computer graphics. We will study some of the latest research in computer graphics. There is no fixed syllabus and no formal lecture material. Instead, you will work individually and in small groups, with guidance from the lecturer. This means that you will have some freedom in how you arrange your study to suit your knowledge and interests. It also means that you'll have a supportive environment in which to exchange and develop your knowledge.

Most people consider cutting edge research to be the most exciting aspect of computer graphics. With your participation, this will be a particularly rewarding unit of the course.

### Second Half Internal Assessment:

Early in the second half of the course we will divide the class into groups of four. Each of these groups will work on a project to understand a recently published academic paper in computer graphics as best they can. The project will involve some research into the background knowledge assumed by the paper, and some implementation and testing of the paper's algorithms. Each group will be responsible for providing oral and written reports on its project, in addition to other tasks such as participating in the assessment of other projects. A few tasks will be assessed on an individual basis.

There will be some assessment due in each week of the unit, but the bulk of the internal marks will be awarded in Weeks 10 and 11 of the semester, when group projects are due. Details will be provided after the midsemester break.

### Second Half Final Exam:

The second half of the final exam will be designed to test your ability to understand unfamiliar research papers via self study. Some of the questions will test your understanding of a research paper that will be handed out in the last week of term. You'll be expected to study this paper alone or in groups, perhaps using methods that you developed during your group project.

The second half of the final exam will also contain a reading taken from an unfamiliar research paper. You will be expected to analyze the reading and answer questions about it.