CPSC 8080 – Advanced Animation
Spring 2014
Syllabus

Instructor

Dr. Sophie Joerg   656-3436
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Office hours: by appointment

Course Topics

This course introduces students to the state of the art in computer animation with a focus on character animation. Topics for the course include animation basics, forward kinematics/inverse kinematics, motion capture, motion editing, motion graphs and motion trees, faces and eyes, gestures and hands, the perception of animation, control interfaces, and emotions.

Class Meeting Times

TR 12:30pm-1:45pm, McAdams 118C
Students are expected to wait for 15 minutes after the beginning of class before leaving if the instructor is late.

Textbook

Rick Parent, *Computer Animation, Third Edition: Algorithms & Techniques*, Morgan Kaufman, 2012. (optional)

Grading

Final grades will be mostly based on assignments, a paper presentation and your main project. Class participation is also required, and includes: contribution to class discussion, engagement, and attitude.

Assignments	20%
Project	30%
Homework	10%
Paper presentation	20%
Paper review or summary	10%
Participation	10%

Letter grades will be based on a 100-point scale. These ranges may be changed somewhat, but only to your advantage.

Assignments

There will be two programming assignments. Each of the assignments should follow the guidelines listed below.

- **Source Files** For each assignment, you will be notified on the method for submitting source files, if required.

- **Late Work** Late assignments will be accepted with penalty deemed appropriate (10%/day).

- **Independent/Team Work** You must work on assignments independently, unless specifically authorized to work in teams. Cheating of any kind will not be tolerated and will result in significant penalties.

Project

A half-semester long project that illustrates in-depth knowledge of one aspect of animation. Team projects are allowed. The complexity of the project should reflect the number of members of the team and all team members are expected to contribute equally to the final project.

Paper Presentation

Each student will be required to give a 20 minute presentation on selected research articles. It is recommended to select both the project and the presentation on a related topic.

Academic Integrity

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form. In instances where academic standards may have been compromised, Clemson University has a responsibility to respond appropriately to charges of violations of academic integrity.