Visualization 6406 – Projects

Key Dates

- **Feb. 5th :** Project Proposals Due
- **March 4th** : Project Updates Due
- **April 5th**-: Final Projects Due

General notes:

- Evaluated for 50% of Final Grade.
- Projects are to be done individually.
- Submit your assignments, reports and project with dal.ca/brightspace
- **Also, please include a readme file that explains how to run your code**

Projects

- You may implement an existing research paper or propose your own project.
- You will submit a **two-page proposal** on the project you intend to implement, how you intend to do it and a brief time-line. This will be worth 5% of your final grade.
- A **four-page progress** report will be submitted partway through the term which explains what you have done and what you still need to complete. Screen captures of the system in operation are expected. This will be worth 5% of your final grade.
- At the end of the term, an **eight-page final report will be submitted along with your project**. An extensive list of prior work and references will not be expected, but you should reference several key papers (10 or more). You also might be asked to demo the system at the instructor's request.
- *Do not go over the page limits.*
- The report will then be revised and considered for submission to a conference or journal.
- How you implement it is up to you. You can build your system from the ground up using OpenGL, DirectX, VRML, Java3D, etc. Or, you can work with an existing toolkit such as D3 or the Visualization Tool Kit (VTK). See the reference page for some of the available toolkits. *However, you cannot use an existing*

visualization system and simply enter in the data. Contact me about it if you are unsure.

- The project will be accessed on the quality of your system (efficiency, robustness, ease of use), the complexity of your system (how hard was it to implement), well-supported design decisions and the quality of the final report.
- Suggested projects (equally valuable):
    - Implement an existing research paper.
    - Modify and implement an existing research paper.
    - Implement and apply an existing research paper to a different application area.
    - Propose and implement a new visualization system.
- If you are unable to find your own datasets, look on our course reference page