CS380: Computer Graphics
Presentation Guidelines

Sung-Eui Yoon
(윤성의)

Course URL:
http://sgvr.kaist.ac.kr/~sungeui/CG

KAIST

Student Lecture and Paper Presentation

- **Related to your interest (student lecture) and research activity (paper presentation), which is useful for your long-term career**
  - **Edu 4.0 course asking students' participation**
  - **Things are changing rapidly due to chatgpt, etc.**
- **Make a team of 1 ~ 2 persons; 2 is better!**
  - **Two presentations per team**
- **Identify a lecture topic and a recent paper present during the semester**
  - **Lecture topic list will be available**

Tentative Schedule

- About 13 talks and zoom sessions
- Apr-17 (Wed): 13:00~15:45, offline mid-term exam
- About 3 talks and zoom session
- May 1, 8, 13: SOTA talks (TA lectures) on Nerf, denoising, diffusion by TAs
- May 20, 22, 27: Student lecture presentation and quiz
- May 29, Jul, 3, 5: Paper presentation and quiz
- Jul, 10, 12 Reserved (final exam)

Deadlines

- **Declare your team member (single person or 2 people) by Apr-26**
  - **Think about the paper that you want to present**
- **Declare both 1) the paper that you want to present and 2) topic of your lecture by May-1st**
- **TA will guide you to choose your talk dates**
  - **Upload your talks before your talk dates**

Paper Presentation

- **Covers a recent paper published in top-tier conf/journals**
  - **Publication year: 2018 ~ today**
  - **Conf. examples: SIGGRAPH/Asia, CVPR/ECCV/ICCV, NeurIPS/ICRL/ICML/AAAI**
  - **Do not talk about low-level details; talk about high-level ideas/results**

Student Lecture Presentation

- **Covers a sub-topic of computer graphics or a bit old single paper or multiple papers**
  - **Do not talk about low-level details; talk about a high-level and broad set of ideas/results**
  - **You can utilize existing tutorials (and slides) given in some conferences**
  - **Or you can talk about a prior paper to your paper presentation; publication year: 2014 ~ today**

Key difference between two talks:

- paper presentation talks about a recent paper

- student lecture presentation gives its broad background or tutorial about it

Topic or Keyword Lists

- **Are available at homepage**

These are some topics or keywords that I found with chatgpt

For the basic concepts portion, you might cover topics such as:

- Fundamentals of computer graphics: rasterization, ray tracing, rendering pipeline.
- 2D and 3D transformations: translation, rotation, scaling, and their matrix representations.
- Graphics primitives: points, lines, polygons, curves, surfaces.
- Color theory and color models: RGB, CMYK, HSL, HSV.
- Lighting and shading models: Phong, Gouraud, Lambertian.
- Texture mapping and filtering.
- Introduction to OpenGL or DirectX for graphics programming.

Student Presentation Guidelines

- **Good summary, not full detail, of the paper**
  - **Talk about motivations of the work**
  - **Give brief background on the related work**
  - **Explain main idea and results of the paper**
  - **Discuss strengths and weaknesses of the method**

High-Level Ideas

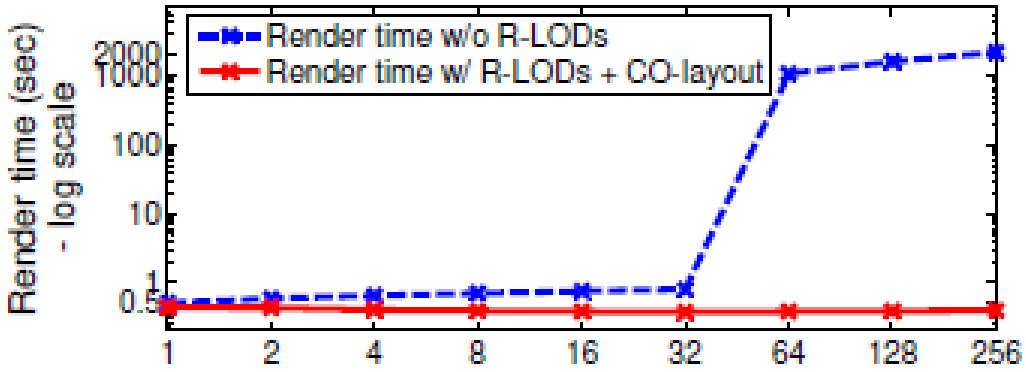
- **Identify main ideas/contributions of the paper and deliver them**
  - **Do not talk about minor details**
  - **Give background as a context for your talk**
- **Deeper understanding on a paper is required**
  - **Go over at least two related papers and understand the chosen problem**
- **Spend most time to figure out the most important things and prepare good slides for them**

Be Honest

- **Do not skip important ideas that you don't know**
  - **Try to understand them as much as you can**

Result Presentation

- **Give full experiment settings and present data with the related information**
  - **What does the x-axis mean in the below image?**



- **After showing the data, give a message that we can pull of the data**

KAIST

Utilizing Existing Resources

- **Use author's slides and result video if they exist**
- **Give proper credits or citations**
  - **Without them, you are cheating!**

Prepare a Quiz

- Give two simple questions to draw attentions
  - Ask a keyword
  - Simple true or false questions
  - Multiple choice questions
  - Provide them through google form
- Grade them in the scale of 0 and 10, and send the score to TA

Audience feedback form

1. Was the talk well organized and well prepared?
5: Excellent 4: good 3: okay 2: less than average 1: poor

2. Was the talk comprehensible? How well were important concepts covered?
5: Excellent 4: good 3: okay 2: less than average 1: poor

Any comments to the speaker

Final Message

- **Have some fun and meaningful experience in a way you can broaden your view**