Advanced Topics in Computer Graphics

SIGGRAPH 2018 Papers

Lecture 1: Introduction
SOMEONE TELL THE WEATHER CHANNEL'S GRAPHICS DEPARTMENT TO TAKE IT DOWN A NOTCH
Why SIGGRAPH’2018?

• SIGGRAPH - State of the art in Computer Graphics

• 2018 - Community moves at lighting pace

• Varied topics, broaden horizons
Course Structure

• Today: me
• Next week: no class, election day
• After that: you

• Every week:
  • Two talks by two students presenting two papers
  • Every talk = 45 minutes + 5 minutes for questions

• Attendance is mandatory
  • Socrative: https://b.socrative.com/login/student/
  • Room name: CS236628<code>
Grading

• Presentation – 50%

• Critical review assignment – 30%

• Class participation – 20%

• Class is held in English
Presentation

• There is a lot of info online on how to do a good academic talk – use it!
  • E.g.: http://matt.might.net/articles/academic-presentation-tips/

• Take all advice with a grain of salt
  • E.g. never show graphs without axes and captions

• Use images/video/illustrations
  • Always give credit!

• BE ON TIME
Presentation - grading

• Did you understand the paper?
  • Motivation
  • Problem/solution
  • Limitations

• Did the class understand?
  • Background
  • Presentation flow
  • Class involvement (Kahoot/Socrative/Google forms)
  • Q/A
Presentation – final words

• Submit slides **Sunday** on the week of your talk
  • Upload here: [https://www.dropbox.com/request/DYRUIaalcCo5KCTsdBRa](https://www.dropbox.com/request/DYRUIaalcCo5KCTsdBRa)
  • Filename: `<studentid>.pptx`

• Don’t take this presentation as a good example
Critical Review

• Simulate the real review process

• Read: https://s2018.siggraph.org/conference/conference-overview/technical-papers/technical-papers-reviewer-instructions/

• Fill a thorough review report according to the following questions
Critical Review - specifics

Description

*Briefly describe the paper and its contribution to computer graphics and interactive techniques. Please give your assessment of the scope and magnitude of the paper's contribution.*

Be thorough, provide examples, show illustrations if required.
Critical Review - specifics

Clarity of Exposition

*Is the exposition clear? How could it be improved?*

Did you understand the paper? How hard was it? Was the English prose readable? Was the notation clearly explained? Did the order that things were introduced make sense? Was the contribution over sold?
Critical Review - specifics

Quality of References

*Are the references adequate? List any additional references that are needed.*

Use Google Scholar to check existing relevant work. Is there related work that wasn’t cited? Or was cited and “waved” away? Are there papers that the paper should have compared to but didn’t? Are the comparisons done with the state of the art?
Critical Review - specifics

Reproducibility

*Could the work be reproduced from the information in the paper? Are all important algorithmic or system details discussed adequately? Are the limitations and drawbacks of the work clear?*

Does the system have parameters that need tuning? Did the authors explain how to choose them? Are there magic numbers?

Was the code published? Did you manage to run it? Did it reproduce the results?
Critical Review - specifics

Rating + explanation

Would you have accepted this paper? Rate it as: <strong reject, weak reject, weak accept, strong accept>

Explain your rating by discussing the strengths and weaknesses of the submission, contributions, and the potential impact of the paper. Include suggestions for improvement and publication alternatives, if appropriate. Be thorough. Be Fair. Be courteous. Above all, be constructive. Your evaluation will be forwarded to the authors during the rebuttal period.
Critical review - submission

Up to **one week** after your presentation date

- Same upload location as presentation
- Filename `<studentid>.pdf`
Class Participation

• Attendance is mandatory
  • Be on time
  • Can miss up to one lecture with reasonable explanation
  • Any additional missing lecture = -10 points to final grade

• Q/A during presentation
  • Look alive, don’t be on FB
  • If you don’t understand something – ask!
  • Answer speaker’s questions

• Questions at the end
  • Think about one question that you can ask at the end
  • No class questions is bad for speaker – be kind!

http://goo.gl/vxwtoj
Technical Issues

• Laptop setup
  • Bring VGA adapter
  • Connect laptop during recess before your talk
  • Can present on my laptop if needed (let me know in advance)

• Double check audio/video/Internet access

• Talk schedule will be published this week