

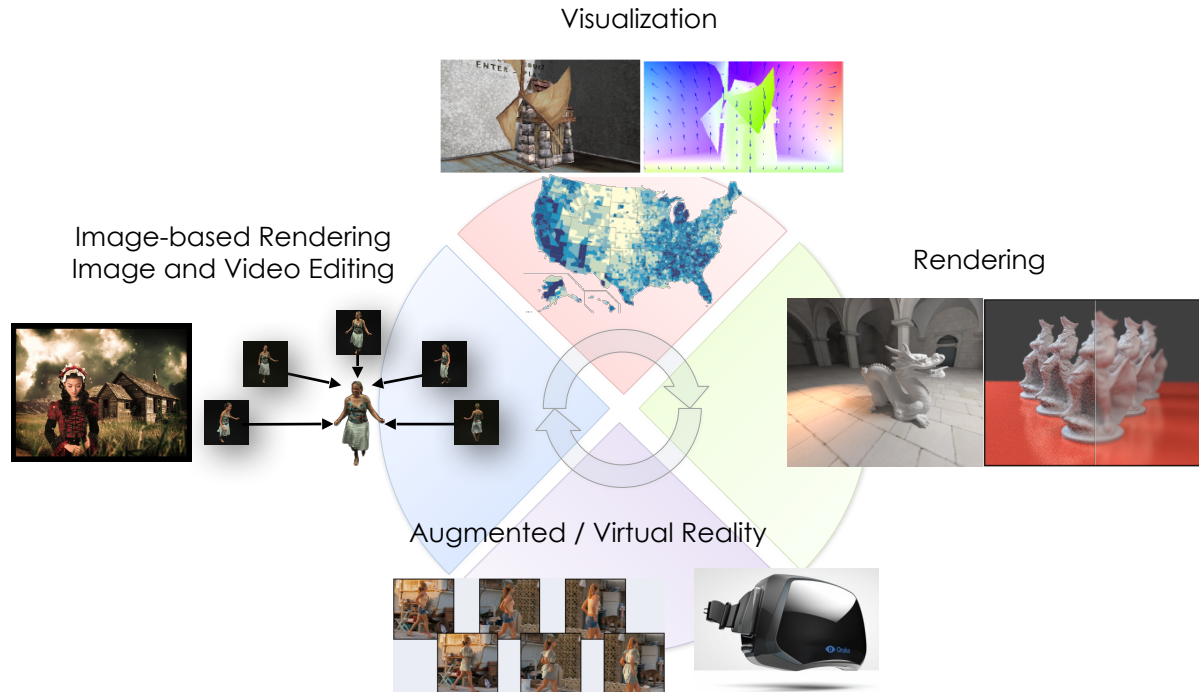


Seminar Computer Vision

New research results in the field of
Computer Vision and Image and Video Processing



About me



About you



What?

- Goal: Introduction to working scientifically
- Individual topics
- Tasks:
 - **Paper** (research publication) read and understand
 - Extract and present **Fundamentals**
 - **Feedback** for presentation of other participants
 - **Presentation** of the paper and discussion



What is the outcome? — **Fundamentals**

- Read the paper and **extract topics** required as background knowledge
- Choose appropriate number of topics and **prepare talk with one partner**
- Present an **educational talk** on the topics to provide the necessary background knowledge for the final talks
 - 20min max
 - 10 minutes of discussion
 - Intuitive, visual explanation more important than details (think about the take away for the audience)
- **Discuss** fundamentals talks to improve your final talk
 - Everyone gives feedback to every talk

- 1 presentation day in the middle of the semester
- Slides can be in any template you like



What is the outcome? — **Review**

- Give feedback on the fundamentals talk (live)
- Write feedback during the talks and hand out notes to presenters
- Pay attention to:
 - Is a motivation given?
 - Is the technique described in a way understandable also for non-experts?
 - Are equations explained thoroughly? Are the diagrams and images correct and correctly cited
 - Are references given for every statement?
 - Is the content described in an understandable way? Are there still open questions?
 - Are references given for further reading?
 - ...



What is the outcome? — **Final Presentation**

- Slides can be in any template you like
- Presentation
 - 20 minutes max
 - 10 minutes of discussion
 - Intuitive, visual explanation more important than details (think about the take away for the audience)
- 1-2 presentation days
- Send presentation as PDF to seminarcv@cg.tu-bs.de at least 1 day before your talk



Grading criteria

- Compliance with mandatory deadlines
- Communication with advisor in case of troubles
- **Bachelor or Master students**
(related to expected quality and depth of the presentation and summary)
- Active participation in the review process
- **Quality of the fundamentals (30%) and final talk (70%)**
- **Main focus: Quality of slides and presentation**
 - **The goal is not to show that you know your stuff, but to explain it to the audience in an intuitive and understandable way!**
- Necessary requirement passing the course
- **Graded requirement for passing the course**



Plagiarism and scientific writing

- If you make a statement, you must also provide a corresponding source! For EVERY statement! Otherwise the part is deemed to have been claimed by you and you must prove that the statement is correct.
- **Don't copy text from others!** Unless you cite the source and there is a good reason to copy. Mark the cited text with „...“ followed by the reference.
- **Don't copy images from others!** It is only allowed if you cite the paper (not the website) where it is from and if you refer to the image in your talk/text.
- Otherwise this is **plagiarism** and can have serious consequences for you!
 - In the worst case, it can lead to de-registration!



Generative AI Tools

- **Generative AI Tools**, like ChatGPT, are allowed but:
 - You need to mark everything where and how you used the AI Tools
 - Every slide/text, where you used an AI Tool needs to be marked
 - YOU are responsible for the result, not the AI Tool



Help

- Website contains two useful resources:
 - Link to a good scientific talk
 - Analyse why it is good!
 - How do they manage to explain even complex mathematical content in an understandable way?
 - How do they use text? And how often?
 - Link to an excerpt for scientific writing
 - Main focus is writing scientific articles for journals
 - It is a „How-to-debug your paper“ manual
 - Not necessarily everything applies for you, but many useful guides in there



Dates

See website <https://graphics.tu-bs.de/teaching>



Topics

See website <https://graphics.tu-bs.de/teaching>

