Seminar Wissenschaftliches Arbeiten
180.765, SS 2018, 2.0h (3 ECTS)

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Organization

- New organizer, switching from mail to TUWEL
- There is a common first part – this is second part
- These slides will be on TUWEL after this meeting
- Topics are presented and assigned here today
Goals

- Practice selecting, reading and understanding
  - Search and select papers relevant to your topic
  - Summarize them as a state-of-the-art report
  - Prepare a talk about your topic in the seminar

- This permits in-depth familiarization with the topic
Tasks

- Submit a literature list (chosen with supervisor)
- Attendance of 3 lectures
- Meetings with supervisor: paper selection, discussion of papers, preparing talk slides
- Alternative: evaluate and compare algorithms
- Final talk in seminar
Literature List

- Analyze recent papers (select with supervisor)
- Study secondary literature to understand topic
- How to find relevant papers:
  - Digital libraries: IEEE, ACM, ...
  - Google Scholar: key words and operators
  - Survey papers, often-referenced papers
- Submit a list of 10+ papers per email to supervisor & me
  → official registration
State-of-the-Art Report (STAR)

- 8 pages per student, preferably in English
- Format in the style of a scientific paper
- Use LaTeX template on course website
- LaTeX tools and guides also on the website
- Submit the draft in PDF format, per email to supervisor+organizer
- Draft has to be complete and min. 8 pages!
Scientific Review

- You will get a draft of another student to review
- Typical conference review form (Eurographics)
- This helps author to improve the manuscript
- Guides on review writing on course website
- You will receive 2 reviews (student, supervisor)
- Improve final report according to reviews
Seminar Talk

- Prepare slides in advance, using template
- Each student talks for 15 minutes, pref. English
- 5 minutes discussion after each talk
- Focus is on overview/comparison of methods
- Present so that other students will understand it
- Active discussion is mandatory and is graded
- Submitted slides are presented on seminar PC
Grading

- First part: 17%, second part: 83%, thereof:
  - Lecture attendance 5%
  - Review: 20%
  - Seminar slides+talk: 30%, discussion 5%
  - Final report: 40%

- Late submission: 15% off per day, max. 1 week
Important Dates

- 21.03. 23:59 Submit literature list
- 11.04. 11:00 – 13:00 Lecture Prof. Wimmer
- 08.05. 15:00 – 16:30 Lecture Prof. Gröller
- TBA Lecture Prof. Purgathofer
- 23.05. 23:59 Submit report draft
- 26.06. 23:59 Submit slides
- 27.06. 08:00 – 13:00 Seminar talks
- 27.06. 23:59 Submit final report
Now, topics will be presented

Topic assignment:
- Points betting
- Assign points (100 in total) to the topics
- Highest bid gets topic
- Flip coin on ties
Example topic from last year!

Reinforcement learning is an amazing tool for optimizing the behavior of an agent in an environment. It is capable of playing computer games at a high level and also has applications in computer graphics.
Example topic from last year!

Provide an chronological overview of real-time global illumination techniques
• Topic assignment:
  • Points betting
  • Assign points (100 in total) to the topics
  • Highest bid gets topic
  • Flip coin on ties

• Fill in name, student number and email
• Hand in the sheet
• I will publish the assignment on TUWEL
Questions?

- Get in contact with your supervisor ASAP
- Discuss literature list with your supervisor
- Submit the list (to supervisor and me) by 21.3.