Block-Seminar on Deep Learning for Bio-Medical Data Analysis
Summer Term 2021

Please put your name on the attendance list. The link is shared in the chat.

we start at 11:15

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Overview

- **Today**: Organization
  - About this block seminar
  - Paper assignments

- Until **Monday, April 26th**: Submit your paper choices

- **Wednesday, April 28th**: Assignment of places, papers and advisors

- **June**: Introductory lecture (about 2 hours)

- **July, 26th -- September, 30th**: Block seminar (most likely two consecutive days)
About this Course

● **What do you learn in this course? (worth 4 ECTS)**
  ○ Reading and understanding current research papers
  ○ Exploring the literature
  ○ Giving a good oral presentation
  ○ Asking questions
  ○ Discussing a research work or a research problem
  ○ Latest stuff in deep learning

● **Requirements**
  ○ First experience in giving a presentation (e.g. Proseminar)
  ○ Recommended: at least one image processing course (e.g. Kursvorlesung)
  ○ Scientific interest in the field
Your Duties

1. Read all the presented research papers and answer some questions
2. Read and understand your selected research paper in depth
3. Until 2 weeks before the seminar: Share the outline of your talk with your advisor
4. Until 1 week before the seminar: Share your slides with your advisor
5. Seminar date:
   - Present your paper in the class
   - Take part in a lively discussion about each paper
Your Duties: 1. Written summary for each paper

- Goal: We want to make sure that everyone has read each paper
- We will ask some general questions about each paper
- You give some concise answers in a written summary
- Length: less than half a page per paper
- Must be sent to the advisor responsible for this paper at latest one day before the block seminar
- Bad summaries will be rejected
- 1 missing/late summaries or rejections at maximum or you won’t pass
Your Duties: 2. Read and understand your paper

- Choose one paper that you will present
- Read this paper \textbf{and understand it}
- Usually requires reading (or cross-reading) several other papers
- Get in contact with your advisor \textbf{at least 4 weeks before the block seminar}
- All papers are current research papers from last conferences
  - they assume that you know the background
  - you are responsible for finding additional information
Your Duties: 3. Prepare an Outline of your Talk

- Re-watch the video “Giving a good presentation”

- Prepare the outline of your talk as a written document (~2 pages)
  - Describe what you will present and in which order
  - Make sure you present the background as well!
  - What tools could be beneficial to make your audience understand better (images, videos, demos)

- Document must be submitted at least 2 weeks before the block seminar

- Meeting with your advisor
Your Duties: 4. Prepare your Slides

- Prepare the slides of your talk
  - Fill your developed structure with actual slides
  - Make sure your talk will be comprehensible
  - Make sure you understand what you are talking about (otherwise skip details)
  - Prepare some text what you will say in each slide
  - Make sure you will stay within the time limit (35-40 minutes)

- Submit your slides at least one week before the block seminar

- Meeting with your advisor

- Make changes to your slides (as discussed with your advisor)

- Practice your talk (really!)
Your Duties: 5. Present and Discuss

- This seminar is designed to be scientifically interesting
  - Selected papers that have been published within the last few months
  - Open discussion about the paper

- Present your Paper

- Discuss your Paper
  - What is still unclear? (might not be the fault of the presenter but the paper)
  - Is this paper a valuable contribution? Why? Why not?
  - What are the shortcomings of the approach?
  - Which successive work could make sense?

- Take part in the discussions of the other papers

- Submit your final slides and get feedback from your advisor
Paper assignments

- We have 12 places (13 papers are on the web page)
- Send an email with your paper priorities to Silvio Galesso until **Monday April 26th**
- Register for the seminar in HisInOne, if you haven’t done so yet
- We will assign places, papers and advisors next week **Wednesday April 28th**

  **No jumping off after that!**

- We will send around a doodle to find the dates for
  - Mid-semester lecture (June): Introduction to generative networks and transformers
  - Block seminar (two consecutive days): July 26th -- September 30th