ML-Neuro Seminar Summer 2026: Kickoff

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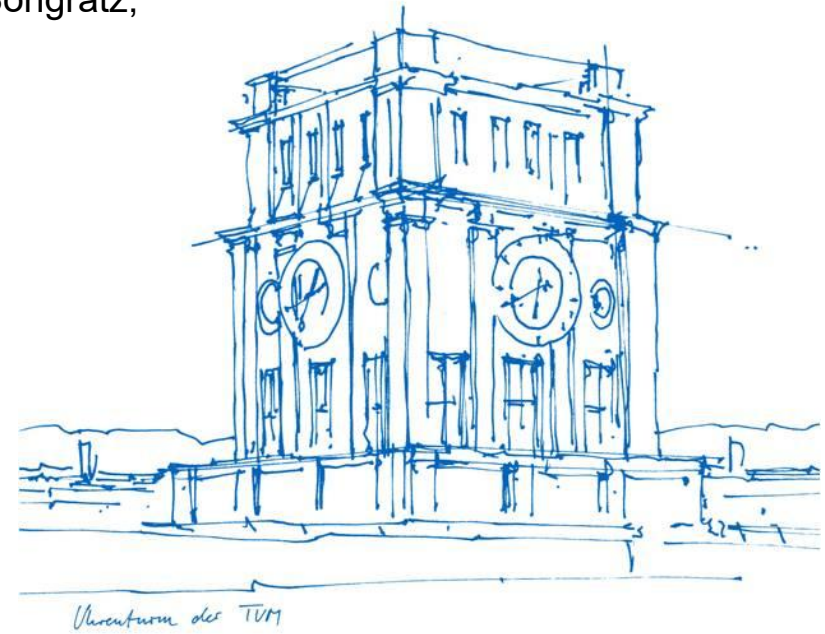
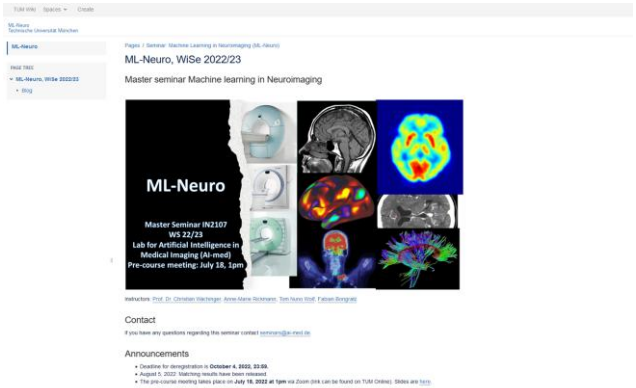
24 April 2026



Platforms

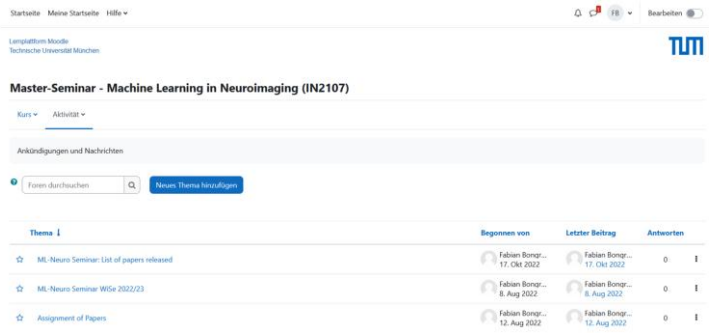
Wiki

- https://wiki.tum.de/display/mlneuro
- General information about the seminar
- Links to papers
- Additional material (e.g., exemplary blogs)



Moodle

- Platform for communication
- Questions & Discussion



Expectations

- Being able to read a paper in a structured way
- Explanation of complex ideas in an understandable blog post
- Usage of modern AI tools (ChatGPT) in a deliberate way
- Presentation of research findings to a technical audience

What to deliver?

- Paper presentation

  70% of final grade

- Blog post (~4 pages DIN A4) about the selected paper, see these guidelines

  30% of final grade

Paper presentation

- 20 min. presentation, 10 min. discussion (will influence grade)
- Rule of thumb: 1–2 minutes per slide → 10–20 slides
- In-person
- Talks are held in English
- Technical audience: use appropriate language
- Hand-in of slides via wiki (restricted access page) until **30 June 2026 23:59**
- Recommended structure:
  - Introduction
  - Overview / Outline
  - Method description
  - Experiments and results
  - Personal comments
  - Summary

Blog post

- Written and posted in the wiki
- Approx. 4 pages
- Mostly non-technical language
- Primarily self-made figures!
- Published on wiki
- Deadline: **16 July 2026** (two weeks after presentations)

Blog post: be creative!

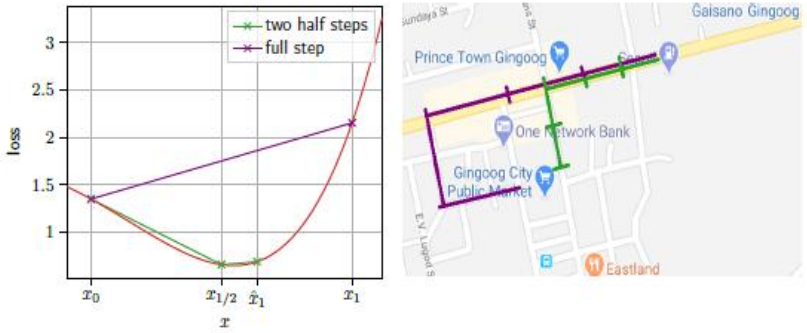
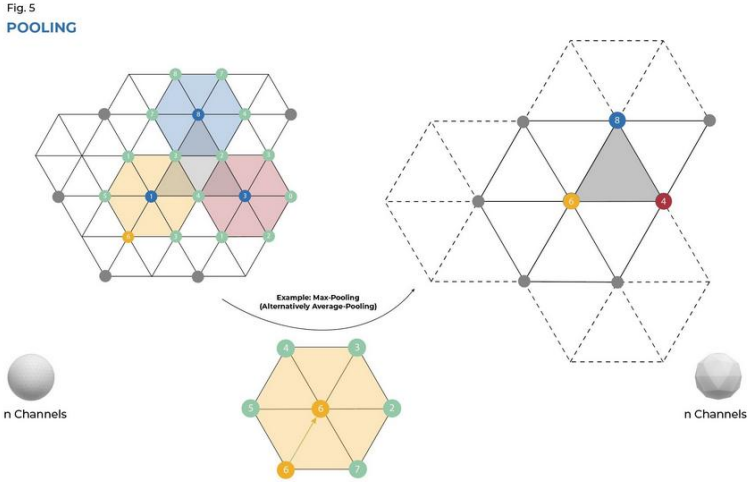
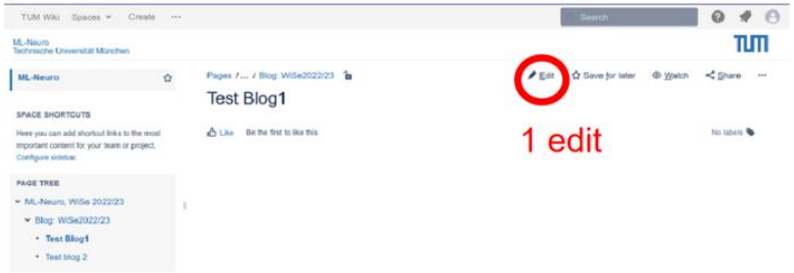


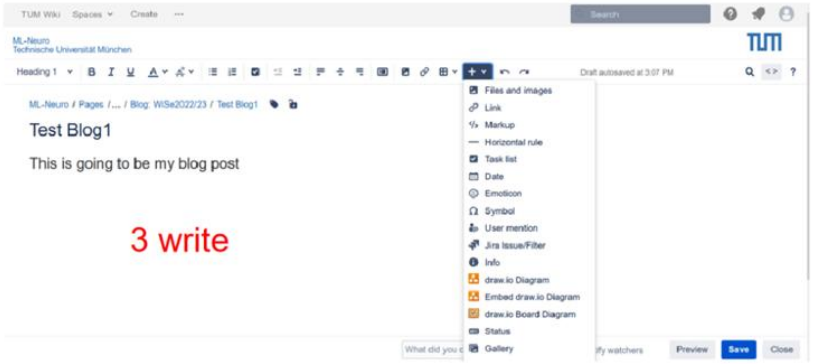
Figure 2: Two half steps vs. one full step in gradient descent and in Gingoog city

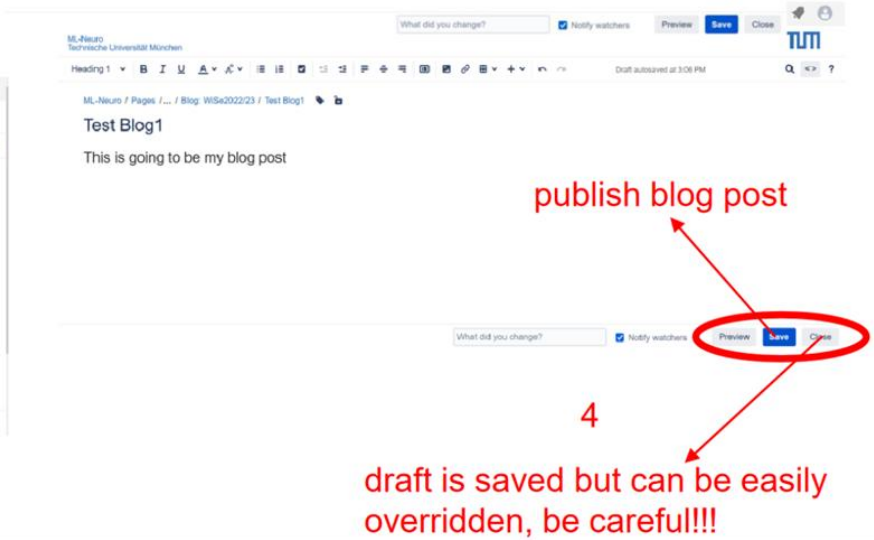


[Fig 5] The same DiNe-Filter can be used by applying it only on vertices that are still present in a lower resolution icosahedron (here orange, blue and red respectively) to achieve pooling.

Writing the blog post







Blog post heading

The heading of the blog post should be in the following format to distinguish you (the authors of the blog post) from the authors of the paper:

<Blog post Title>
Blog post written by: <Your name>
Based on: <Paper citation (APA)>

ChatGPT

- Brainstorming: outlines, arguments
- Research assistance: additional supervisor (with a lot of time and patience :))
- Writing support

- Mention use of ChatGPT. Key ChatGPT prompts are to be listed at the end of the blog post.
- chatpdf.com
- Grading based on the quality (independent of using ChatGPT)

Warnings:

- Beware of hallucinations
- 10 min discussion: ChatGPT cannot help you there. You need to understand the topic.

AI-med

Questions?