Chair of Network Architectures and Services
School of Computation, Information, and Technology
Technical University of Munich

TUM

Seminar: Innovative Internet Technologies and Mobile Communications (IITM)

**Prof. Dr.-Ing. Georg Carle,
Marcel Kempf, Daniel Petri, Stefan Genchev**

Wednesday 9th July, 2025

Chair of Network Architectures and Services
School of Computation, Information, and Technology
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Basic Information

Organization

- seminar@net.in.tum.de (only use this mail address!)
- Marcel Kempf
- Daniel Petri
- Stefan Genchev

Overview

- Language: English
    - Written Language: English for the paper, reviews, and slides
    - Spoken Language: Talk may be held in German or English
- Extent: 2 SWS / 5 ECTS
- Course Type:
    - B. Sc.: Advanced Seminar Course (Seminar)
    - M. Sc.: Master's Seminar (Master-Seminar)

Learning Goals of the Seminar

1. Scientific research on individual topic
- Survey literature for your topic with support from your advisor
- Use digital (and even analog) libraries to research a given topic
- Learn to find relevant literature based on a few starting points

2. Write a scientific paper
- Learn to write a paper in LaTeX using the given template
- Focus your research around writing the paper
- Summarize a given topic while maintaining a good structure

3. Prepare a scientific talk
- Prepare your slides using beamerlatex
- Manage to fit the main aspects of a topic into a given time frame

4. The peer review process
- We do a peer review among all participants like in real conferences
- Exercise yourself on giving constructive feedback
- Critique others, giving hints on how to improve

Seminar Procedure

First version of your paper

- Agree on the content with your advisor
    - ! Keep in touch with your advisor
- Use the provided paper template (LaTeX)
- Finish a preliminary version in time so that your advisor can give you feedback
- Your paper **must** have 4 ($\in$ [3.5, 4.25]) pages of content in IEEE 2-column style (excluding references)

Present your topic

- Spoken language $\in$ {German, English}, written language is English
- $10 - 15$ min talk + $1 - 5$ min discussion

Peer review

- Review two papers of other participants
- Review language is English

Final version of your paper

- Use the received reviews to improve your paper
    - You may additionally request feedback from the advisor
- If you meet a certain standard: $\Rightarrow$ publication in the seminar proceedings

Seminar Schedule

- Each participant will work on an individual topic offered by chair members within their research area
- Throughout the seminar, you will interact with your advisor(s)
  - $\rightarrow$ discuss topic and content of the paper, discuss paper structure, ask for feedback, . . .
- A finished seminar paper is a good start for a thesis within the corresponding area
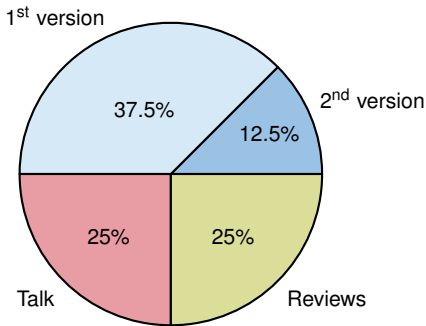
Topic Presentation:
- Kick-off meeting for the seminar.
- Offered topics are presented to you after which you can rank the topic you want to work on.

Talks:
- Participants give a talk about their topic.
- Whole day events for the block seminar, weekly for the seminar.

Grading

1. Your paper submissions (50 %)
   - 1st version: 37.5 %
   - 2nd version: 12.5 %
2. Your talk, 10 – 15 min (25 %)
3. Your two reviews of assigned other submissions (25 %)

Influencing Factors

- First version of paper must be acceptable
  - Grade worse than 4.0 $\Rightarrow$ disqualification (seminar graded as 5.0)
  - Less than 3.5 pages of text in the seminar template $\Rightarrow$ disqualification
    (text length $\in [3.5, 4.25]$ pages)
  - The page limit excludes references
- Observe the (hard) deadlines
  - Advisor meetings are compulsory
  - You are provided with git repositories to check in your work and submissions
- No submission
  - 1st version of paper $\Rightarrow$ disqualification (seminar graded as 5.0)
  - Other submissions $\Rightarrow$ grade 5.0 for the concerning part
- Write the paper yourself
  - Plagiarism $\Rightarrow$ disqualification
    ! Attempted cheating will be reported to the examination office
  - Summary of when and why to cite: https://mediatum.ub.tum.de/1225458 (citation guide)
- Absence during talks without valid excuse
  - 0.3 deduction per missed talk on your presentation grade
  - Talk graded worse than 4.0 $\Rightarrow$ disqualification (seminar graded as 5.0)
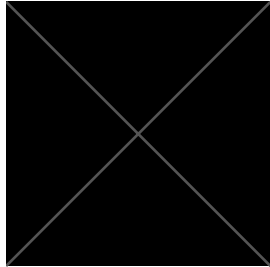
- Proceedings of the seminar submissions are compiled
  - Your paper is included if it meets our standards and you do not actively object
    - **!** You have to proactively inform us in case you object to the publication!
  - Proceedings are available in print and at
    www.net.in.tum.de/publications/seminar%20proceedings
- Best Paper Award
  - We will choose the best paper in each seminar
  - Publication is a necessary precondition
  - A certificate and a hardcopy of the proceedings is awarded to the best paper

Preliminary Schedule

Block Seminar	Dates
Topic presentation	05.08.2025 14:00
Upload paper (1st version)	28.09.2025 23:59
Talks	7. and/or 8.10., whole day
Upload reviews	19.10.2025 23:59
Upload paper (2nd version)	26.10.2025 23:59

Seminar	Dates
Topic presentation	Second Week of Semester
Upload paper (1st version)	Mid December
Talks	End of Semester
Upload reviews	End of Semester
Upload paper (2nd version)	After Exams

Registration

You can enter your matriculation number in the form linked on the right to be prioritized by us. You agree that we will process your matriculation number for the purpose of the matching.

- Registration to the seminar is handled centrally
    1. You enter your seminar preferences
    2. We enter our students preferences
    3. The system computes a "**student-optimal**" matching

   More info: docmatching.in.tum.de

- The result of the matching is binding, **you cannot resign** from the course afterwards
    - Only enter courses that you really want to participate in
    - We accept withdrawals only for special reasons (e. g. not getting any of your topic preferences)

Matching Schedule

∼ 01.08.2025	Publication of the matching results ⇒ you receive an email from us
∼ a few days later	Start of the block seminar with the topic presentation
first week of semester	Start of the seminar with the topic presentation

In general, only write emails to
`seminar@net.in.tum.de`