Seminar: Innovative Internet Technologies and Mobile Communications (IITM)

Info Meeting

Prof. Dr.-Ing. Georg Carle,
Dr.-Ing. Stephan Günther, Benedikt Jaeger

Friday 4\textsuperscript{th} February, 2022

Chair of Network Architectures and Services
Department of Informatics
Technical University of Munich

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Basic Information

Lecturer

- Prof. Dr.-Ing. Georg Carle

Organization

seminar@net.in.tum.de (only use this mail address!)

- Dr.-Ing. Stephan Günther
- Benedikt Jaeger

Overview

- Main Language: English
  - paper and reviews in English
  - talk can be in German or English
- Extent: 2 SWS, (5 ECTS)
  - 5 ECTS · 30 h = 150 h of work expected from you
- Course Type:
  - For B. Sc. Students: Advanced Seminar Course (Seminar)
  - For M. Sc. Students: Master’s Seminar (Master-Seminar)
Learning Goals of the Seminar

Scientific research on individual topic

- Supported by your advisor you will survey literature for your topic
- Get used to searching digital libraries

Write a scientific paper

- Learn to write a paper in \LaTeX\ with a given template
- Document your progress in a provided Git repository
- Follow the rules of good scientific practice

Prepare a scientific talk

- Prepare your slides using beamerlatex
- Convert your topic into an interesting talk

Give profound feedback on other seminar papers

- Like in real conferences we do a peer review among all participants
- Learn from your and others’ mistakes
Seminar Schedule

Workflow:

- 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)
  → 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

Common Meetings:

- **Topic Presentation:**
  Kick-off meeting for the seminar. Offered topics are presented to you after which you can give preferences which 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.
Seminar Procedure

First version of your paper

- Agree on the content with your advisor
- Use the provided paper template (\LaTeX)
- Keep in touch with your advisor
- Try to finish in time so your advisor can give you feedback
- Your paper must be 4 pages in IEEE 2-column style
- Expected language for the paper is English

Present your topic

- German or English
- 20 min talk + 5 min discussion

Peer review

- You have to review two papers of your fellow students
- Reviews are part of your final grade
- Review language is English

Final version of your paper

- Use the received reviews to improve your paper
- You will also receive feedback from the advisor
- If you and your advisor agree → publication in the seminar proceedings
Seminar vs. Block Seminar

Both seminars offer similar topics

→ Check the proceedings

Block Seminar (IN4600)

- Topic presentation: Friday, March 4th, 14:00
  → Soon after the matching
- Seminar paper to be written in lecture free time (fewer weeks until first version)
- Talks as block in the last weeks of the lecture free time
  (April 21st / 22nd, whole day, 10:00 – 16:00)
- Registration limited to 14 participants

Seminar (IN4595)

- Topic presentation: Friday, April 29th, 14:00
  → At the start of the lecture period
- This is the first week of the semester
- Seminar paper to be written during the semester
- Talks in weekly sessions on Friday, 14:00, starting in July (probably 4 meetings)
- Registration limited to 16 participants
Grading

1. Both of your paper submissions, 4 pages in IEEE (50 %)
   - 1\textsuperscript{st} version: 37.5 \%
   - 2\textsuperscript{nd} version: 12.5 \%

2. Your talk, 20 – 25 min, following discussion, and feedback (25 \%)

3. Your reviews of papers from other seminar participants (25 \%)

[Pie chart showing distribution of grades: 37.5\% for 1\textsuperscript{st} version, 12.5\% for 2\textsuperscript{nd} version, 25\% for Talk, 25\% for Reviews]
Grading

Influencing Factors

- First version of paper must be acceptable
  - Grade worse than 4.0 → disqualification (seminar graded as 5.0)
  - Less than 4 pages in the seminar template → disqualification
    (not 3.1 pages + empty space, not 5 pages without references)
- Observe the deadlines
  - Advisor meetings are compulsory
  - You are provided with git repositories to check in your work and submissions
  - Hard deadline for each submission
- No submission
  - 1\textsuperscript{st} version of paper → disqualification (seminar graded as 5.0)
  - Other submissions → grade 5.0 for the concerning part
- Write the paper yourself
  - Plagiarism → disqualification (and we will check!)
  - Attempted cheating will be reported to the examination office
  - Summary when and why to cite: 
    
  - Regularly push your progress to avoid misunderstandings
- Absence during talks without valid excuse
  - 0.3 degrading per missed talk on your presentation grade
  - Talk graded worse than 4.0 → disqualification (seminar graded as 5.0)
Topic Handling

- You get some literature or hints where to start from your advisor
- This is just to get you started
- Find appropriate (scientific) sources yourself

- scholar.google.com
- acm.org
- ieee.org
- semanticscholar.org
- Your sources' sources
- ...

TUM provides access to non-free papers via eaccess.ub.tum.de.

Just presenting the given literature is not enough
The Advisor’s Role

- Advisors create topics within their research context.
  - They have broad knowledge about the context of your seminar topic.
- Your task is to do research and write a scientific text about a specific topic beyond basic lecture content.
  - Your advisor is not responsible for your tasks.
- Adhering to the deadlines is your responsibility.
  - Your advisor will not remind you.
- Advisors will help you if you ask them to.
  - Keeping contact with your advisor allows you to write a much better seminar paper.
- Advisors can give you feedback.
  - Ask for feedback about your first paper version, the peer reviews, your slides for the talk, etc.
Talk Procedure

- Prepare your talk
  - Finished slides must be discussed with your advisor 1 week before the talk.
  - Advisors may offer the opportunity of rehearsal talks.

- Present your work
  - Scientific talk
  - Present the main results & give an interesting talk

- Session chair for one talk
  - Introduce the speaker
  - Watch the time constraints
  - Try to get the discussion started after the talk (ask at least one question if nobody else does)

- Mandatory attendance in all sessions
  - If you cannot attend for a good reason, contact seminar@net.in.tum.de in advance
  - Attending the talks is mandatory for passing the course
    (schedule of talks will be published after the first submission)
Talk Procedure

Improving Your Presentations Skills

- You have the chance to get your talk recorded
  - Have a **look at yourself** after the talk!
  - Your talk was great? Share it and show it to your friends
  - You fully control the access! Initially only you can access it
- Get feedback from your colleagues (not graded)
  - Feedback forms to be filled out during the talks
Seminar Proceedings

- We give the opportunity to publish your papers!
  - If both you and your advisor agree
  - Proceedings of the last years can be found on www.net.in.tum.de/publications/seminar%20proceedings

- Look at old proceedings
  - Examples of papers we consider "good"
  - Get an idea of the topics we cover

- Best Paper Award (only published papers)
  - We will choose the best paper in each seminar
  - They will receive a certificate and a hardcopy of the proceedings
Registration

- Registration is handled centrally on a dedicated web platform
  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

- If you want to be preferred by us, register with your student card when leaving the room
  - We will prefer you for both seminars
  - The list is closed after the event

- 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

- **24.02.2022** Publication of the matching results → you receive a mail from us
- **04.03.2022** Start of the block seminar with the topic presentation
- **29.04.2022** Start of the seminar with the topic presentation
## Preliminary Schedule

<table>
<thead>
<tr>
<th>Block Seminar</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Topic presentation</td>
<td>March 4, 14:00</td>
</tr>
<tr>
<td>Upload paper (1\textsuperscript{st} version)</td>
<td>April 10</td>
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<tr>
<td>Talks</td>
<td>April 21 / 22, whole day</td>
</tr>
<tr>
<td>Upload reviews</td>
<td>tba</td>
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<tr>
<td>Upload paper (2\textsuperscript{nd} version)</td>
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<td>Upload paper (1\textsuperscript{st} version)</td>
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<td>tba</td>
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In General, write emails only to
seminar@net.in.tum.de