ТШП

Seminar: Innovative Internet Technologies and Mobile Communications (IITM)

Info Meeting

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

Friday 15th July, 2022

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

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)
  - $\rightarrow$ 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

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 (without references)
- 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 $\rightarrow$ publication in the seminar proceedings

Seminar vs. Block Seminar

Both seminars offer similar topics

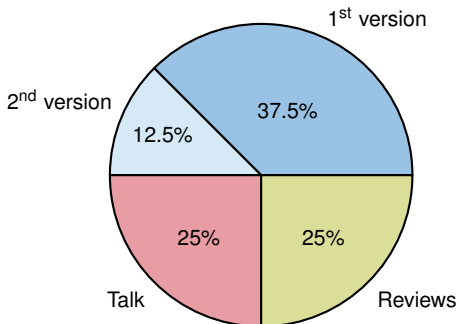$\rightarrow$ Check the `proceedings`

Block Seminar (IN4600)

- Topic presentation: Friday, August 12th, 14:00
    - $\rightarrow$ 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
  (October 13th / 14th, whole day, 10:00 – 16:00)
- Registration limited to 14 participants

Seminar (IN4595)

- Topic presentation: Friday, October 21st, 14:00
    - $\rightarrow$ 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 January (probably 4 meetings)
- Registration limited to 16 participants

1. Both of your paper submissions, 4 pages in IEEE (50 %)
   - 1st version: 37.5 %
   - 2nd version: 12.5 %
2. Your talk, 20 – 25 min, following discussion, and feedback (25 %)
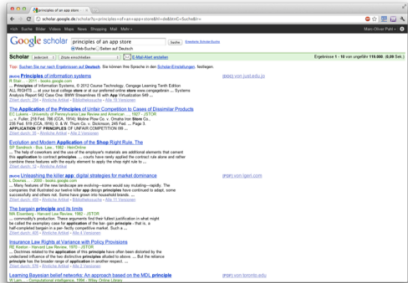3. Your reviews of papers from other seminar participants (25 %)

Influencing Factors

- First version of paper must be acceptable
  - Grade worse than 4.0 $\rightarrow$ disqualification (seminar graded as 5.0)
  - Less than 4 pages in the seminar template $\rightarrow$ 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
  - 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 (and we will check!)
  - Attempted cheating will be reported to the examination office
  - Summary when and why to cite: `citation guide`
  - 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 $\rightarrow$ 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
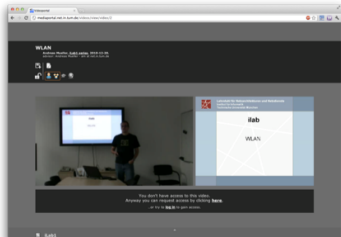
The Advisor's Role

- 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 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`

- 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

05.08.2022	Publication of the matching results → you receive a mail from us
12.08.2022	Start of the block seminar with the topic presentation
21.10.2022	Start of the seminar with the topic presentation

Preliminary Schedule

Block Seminar	Dates
Topic presentation	August 12, 14:00
Upload paper (1st version)	September 25
Talks	October 13 / 14, whole day
Upload reviews	tba
Upload paper (2nd version)	tba

Seminar	Dates
Topic presentation	October 21, 14:00
Upload paper (1st version)	Before Christmas
Talks	January / February, Fridays 14:00 - 16:00
Upload reviews	tba
Upload paper (2nd version)	tba

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