

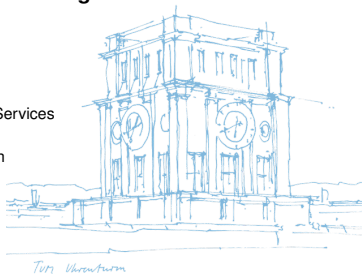
Seminar: Innovative Internet Technologies and Mobile Communications (IITM)

Info Meeting

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

Thursday 30th January, 2020

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)

Seminar Procedure

First version of your paper

- Agree on the content with your advisor
- Use the provided paper template (L^AT_EX)
- 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 (including references etc.)
- Expected language for the paper is English

Present your topic

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

Peer review

- You have 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

- Both seminars offer similar topics
 - Check the [proceedings](#)
- Block Seminar (IN4600)
 - Topic presentation: Friday, February 28th, 14:00, room 03.07.023
 - This is just a few days after the matching assignments are published!
 - Seminar paper to be written in lecture free time (only few weeks until first version)
 - Talks as block in the last weeks of the lecture free time (April 2nd / 3rd, whole day, 10:00 – 16:00)
 - Registration limited to 14 participants
- Seminar (IN4595)
 - Topic presentation: Friday, April 24th, 14:00, room 03.07.023
 - 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

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%)

Grading

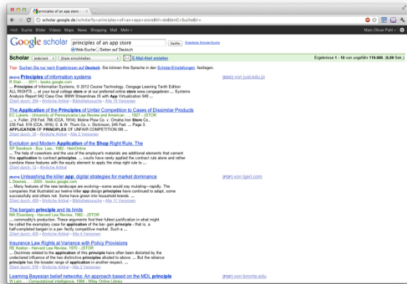
Influencing Factors

- 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 4 pages + 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 → 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: [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 → 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
- semanticsscholar.org
- Your sources' sources
- ...



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

Just presenting the given literature is **not** enough

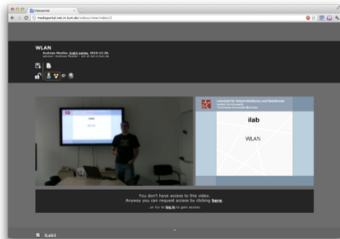
- Advisors create topics within their research context.
 - They have broad knowledge about the context of your seminar topic.
- Your task is to do research and write a scientific text about a specific topic beyond basic lecture content.
 - Your advisor is not responsible for your tasks.
- Adhering to 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.

- 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 on 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



Presentation Feedback Form

Title of presentation: _____

	Very poor / Confusing	Poor	Reasonable / OK	Good / Helpful	Excellent
Presentation Skills					
Style of presentation	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Time keeping	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Visual aids/props used	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Use of presentation media	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Interaction with audience	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Organization and structure					
Structure	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Clarity of research question	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Clarity of conclusions	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Illustrations and examples	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Content					
Argumentation	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Level of detail	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Correctness	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○
Overall quality of the talk	○○○○○	○○○○○	○○○○○	○○○○○	○○○○○

- 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

- 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 – Example 1

Your preferences

1. \$your_favorite_seminar
 2. \$i8_seminar
 3. \$not_so_interesting_seminar
-
- Putting your matriculation number on our list does **not** reduce your chance of being assigned to \$your_favorite_seminar
 - However, your chance of being assigned to \$i8_seminar is increased if you cannot be assigned to \$your_favorite_seminar

Preferences Student A

1. \$very_popular_seminar
2. \$popular_seminar

Preferences Student B

1. \$popular_seminar

- The chances of getting assigned (to any course) are not higher for Student B compared to Student A
- The matching system works best **for you** if you honestly enter all your preferences
 - Giving same priority to multiple courses is possible

Block Seminar	Dates
Topic presentation	February 28, 14:00
Upload paper (1 st version)	March 29, 23:59
Talks	April 2/3, whole day
Upload reviews	April 19, 23:59
Upload paper (2 nd version)	May 3, 23:59

Seminar	Dates
Topic presentation	April 24, 14:00
Upload paper (1 st version)	End of June
Talks	tba
Upload reviews	tba
Upload paper (2 nd version)	tba

- Equivocation
- Package manager security
- Timeseries Predictions
- Reproduction of Internet Toplist Analysis
- Citation Graph Analysis - Data Pre-processor
- Analysis of Facebook Libra
- Survey of Federated Consensus Protocols
- Longest Prefix Matching in PostgreSQL
- Recent Activity in P4
- P4₁₆ INT Applications
- Properties of scheduling algorithms in Network Calculus
- What is Stochastic Network Calculus?
- State of the Certificate Transparency Ecosystem
- Atomic Broadcasts and Consensus
- Applications of eBPF
- Network Function Virtualization in NFF-Go
- VPP for Virtual Switching
- Network State Consistency in SDN with Distributed Controller

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