

Software-Engineering Seminar, Winter 2017/18

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AG Softech
FB Informatik
TU Kaiserslautern

Supervisors/Participants

- Sebastian Schweizer
 - Oliver Markgraf
 - Pascal Bergsträßer
 - Thanjira Amornkosit
- Mathias Weber
 - Philipp Schepper
 - Raphael König
 - Samitha Jayathilake
- Peter Zeller
 - Daniel Seifert
 - Assel Kaipiyeva
 - Constantin Seebach
- Arnd Poetzsch-Heffter
 - Leandro Avila da Silva
- Annette Bieniusa
 - Tatkeu Tchoudji Ulrich
Quentin
 - Ricarda Rahm
 - Ayush Verma
- Deepthi Akkoorath
 - Masha Reko
 - Roberto Moreu Rubio
 - Asmaa Ali
- Vasil Tenev
 - Patrick Roth

Goals

- Learn an interesting topic in SE
- Read and understand scientific papers explaining the topic
- Learn how to present the topic

Your tasks

You get one topic, either based on an existing paper or on an existing technology.

- Read and understand the paper/material
- Search for additional material on the topic
- Write a paper
 - Language: English (Bachelor: may be in German)
 - Use our Latex template
 - 10-15 pages (Bachelor: 7-15 pages)
 - Easy to read for other students
 - Present the problem and motivation of the work
 - Present the solution
 - You may add critique
- Presentation
 - 20 minutes presentation
 - about 10 minutes discussion and questions (know your topic!)

Schedule

- Latex Tutorial: Thursday, November 2, 13:45, room 11-201
- Extended Abstract submission: November 13
- First draft of paper: December 11
- Presentations: After winter break, Thursdays, 13:45-15:15
- Final paper: February 9

All deadlines: End of the day 23:59.

Submissions: As pdfs by email to your supervisor and coordinator

Extended Abstract

An abstract is a short (often 100-250 words) summary of a paper, which helps potential readers to decide, whether they should read a paper or not.

An abstract often has 4 parts:

- 1 A motivation/problem statement, which explains what the topic and scope of the paper is and what problem it tries to solve.
- 2 A brief statement about what approach/methods were used.
- 3 A summary of the results
- 4 A conclusion, which summarizes the contributions

Extended abstract:

- 1 similar but longer (at least 2 pages)
- 2 Focus on the motivation, problem statement, and the main ideas of your topic
- 3 No technical details yet.

Presentation schedule January

- Day 1 (January 11)
 - (Ba) Oliver Markgraf: SMT solvers
 - (Ba) Pascal Bergsträßer: Generating verification conditions
 - (Ba) Philipp Schepper: The Dafny and Boogie verification tools
- Day 2 (January 18)
 - (Ba) Daniel Seifert: The Chalice verification tool
 - (Ma) Constantin Seebach: QUELEA
 - (Ma) Samitha Jayathilake: TLA+
- Day 3 (January 25)
 - (Ba) Raphael Jakob Koenig: Property based testing
 - (Ba) Assel Kaipiyeva: Concolic testing
 - (Ma) Ayush Verma: MOLLY
 - (Ma) Masha Reko: The Blockchain

Presentation schedule February

- Day 4 (February 1)
 - (Ba) Tatkeu Tchoudji Ulrich Quentin: Model checking (theory)
 - (Ba) Ricarda Rahm: Model checking (applications)
 - (Ma) Asmaa Ali: Generalized Isolation Level Definitions
 - (Ma) Roberto Moreu Rubio: ACIDRain
- Day 5 (February 8)
 - (Ma) Thanjira Amornkosit: Session Types
 - (Ma) Leandro Avila da Silva: Rules-Based Programming
 - (Ma) Patrick Roth: Model-based Systems Engineering

How to fail a seminar?

- Plagiarism
- Late submissions
- Not attending final presentations
- Poorly written paper
 - Fail to convey the concepts
 - Incomprehensible English
- Bad presentation
 - Fail to convey the concepts
 - Unable to answer any questions
- Never talk to your supervisor
- Do not use a spell checker