



Software Engineering

0. Course Organization | Thomas Thüm | October 27, 2020

About Me

- My name is Thomas
(avoid Prof./Mr. Thüm please)
- Programming since 1998
- 2004–2010: studied Computer Science
(minor subject Mathematics)
- 2010–2015: PhD student in Software
Engineering
- 2015–2019: PostDoc in Software Engineering
- Since 2020: Professor for the Construction
and Analysis of Secure Software Systems



Institute of Software Engineering and Programming Languages

Institutsleitung



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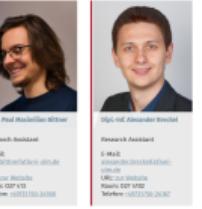
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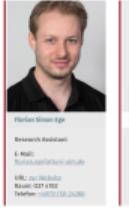
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Sekretariat & Technik



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Current Courses of Our Institute

Bachelor

- Software Engineering I+II
(Softwaretechnik I+II, this course)
- Software Project
(Softwaregrundprojekt)

Master

- Compiler Construction (Compilerbau)
- Empirical Research Methods in Computer Science
(Empirische Forschungsmethoden der Informatik)
- Functional Programming
(Funktionale Programmierung)
- Management of Software Projects
(Management von Softwareprojekten)
- Rule-Based Programming
(Regelbasierte Programmierung)
- Software Quality Assurance
(Softwarequalitätssicherung)

Other Courses of Our Institute

Bachelor

- Interactive Systems Programming
(Programmierung von Systemen)

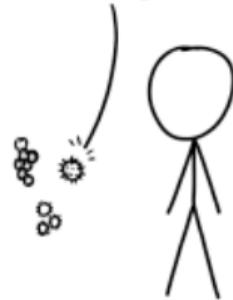
Master

- Constraint Programming
(Constraint-Programmierung)
- Model-Driven Software Engineering
- Parallel Programming (Parallele Programmierung)
- Principles of Program Analysis
(Prinzipien der Programmanalyse)
- Software Product Lines
(Software-Produktlinien)
- ...

Software Engineering I and II

- German title: Softwaretechnik I und II
- Abbreviation: SE (aka. SWT)
- Credits: 6 ECTS (60h+120h=180h)
- Semester hours: 4
- Requirements (contentual):
Interactive Systems Programming
(Programmierung von Systemen)
- Courses of studies:
 - ▶ B.Sc.: Informatik, Medieninformatik,
Software Engineering, Informationssystemtechnik
 - ▶ M.Ed.: Informatik Lehramt
 - ▶ ...

HI THERE! WE'RE THE
VIRUSES THAT CAUSE
THE COMMON COLD.
THIS HANDWASHING...
IT STOPS WHEN THIS
IS ALL OVER, RIGHT?



IT'S JUST, IT'S
MAKING THINGS
REALLY HARD
FOR US, TOO.
MAYBE WE
COULD MAKE
A DEAL?



WE WON'T KILL YOU!
WE JUST WANT TO GET
BACK IN YOUR THROAT
AND MAKE YOU FEEL
GROSS NOW AND THEN.



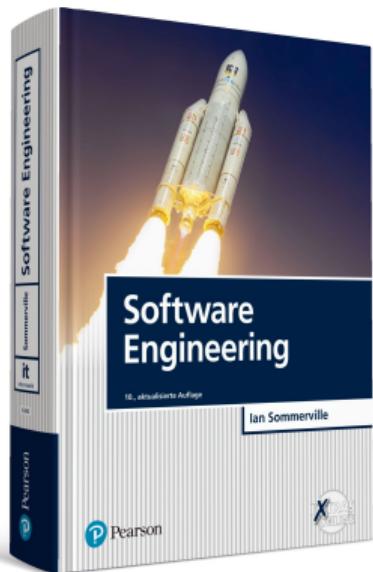
NO.



Lecture and Exam

- Weekly lecture over winter and summer term
- Written exam at the end of the summer term
- No formal exercises, but small tasks within the lecture
- In parallel: Software Project
(Softwaregrundprojekt)
- Corona-Update
 - ▶ no physical lecture
 - ▶ screencasts available in Moodle and on Youtube
 - ▶ extensive use of Moodle:
small tasks, your questions, your answers
 - ▶ use tutorial groups for questions

Literature



- Ian Sommerville. Software Engineering, 10. Edition, Pearson, 2018.
 - ▶ German, English, and earlier versions
 - ▶ Videos by Ian Sommerville and others available online
- More announced in each lecture

Disclaimer and Bug Bounty Program

- Lecture is largely redesigned
- Expect inconsistencies and errors
- Please report any problems in Moodle
- Bug Bounty: significant contributions honored
- Best answers in Moodle also honored
- <https://moodle.uni-ulm.de/mod/moodleoverflow/view.php?id=266800>

Questions?

- Check information in Moodle:
<https://moodle.uni-ulm.de/course/view.php?id=17420>
- Check already answered questions in Moodle overflow
- Ask in Moodle rather than email, if possible
- Meet me in my consultation hour:
Wednesday 1–2pm in Webex
<https://uni-ulm.webex.com/meet/thomas.thuem>
- Contact me via thomas.thuem@uni-ulm.de