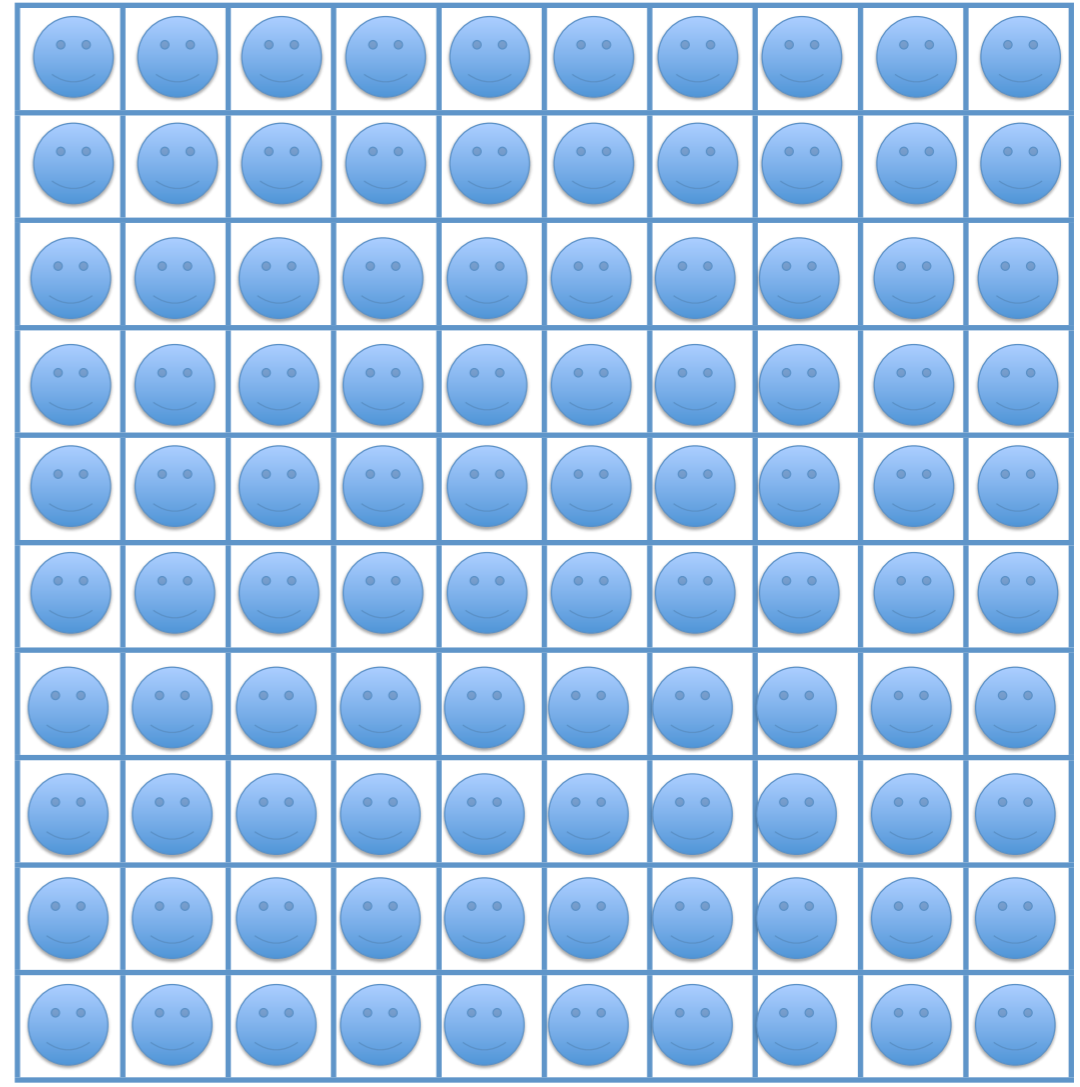


NO



YES

Dr. Michael Eichberg
Software Technology Group
Department of Computer Science
Technische Universität Darmstadt

Introduction to Software Engineering

Organization



TECHNISCHE
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Teaser



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⚡ ⚡ *As long as there were no machines, programming was no problem at all; when we had a few weak computers, programming became a mild problem, and now we have gigantic computers, programming has become a gigantic problem.*



E.W. Dijkstra

The Humble Programmer

Communications of the ACM, Vol. 15, Issue 10, 1972

The Team



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The Team



Dr. Michael Eichberg



Ralf Mitschke



Johannes Lerch

Contact

WWW

http://www.stg.tu-darmstadt.de/teaching/courses/ws2011/eise_ws2011

Forum

<http://www.d120.de/forum/>

→kanonische Einführungsveranstaltungen

→Einführung in Software Engineering

The Team



Dr. Michael Eichberg

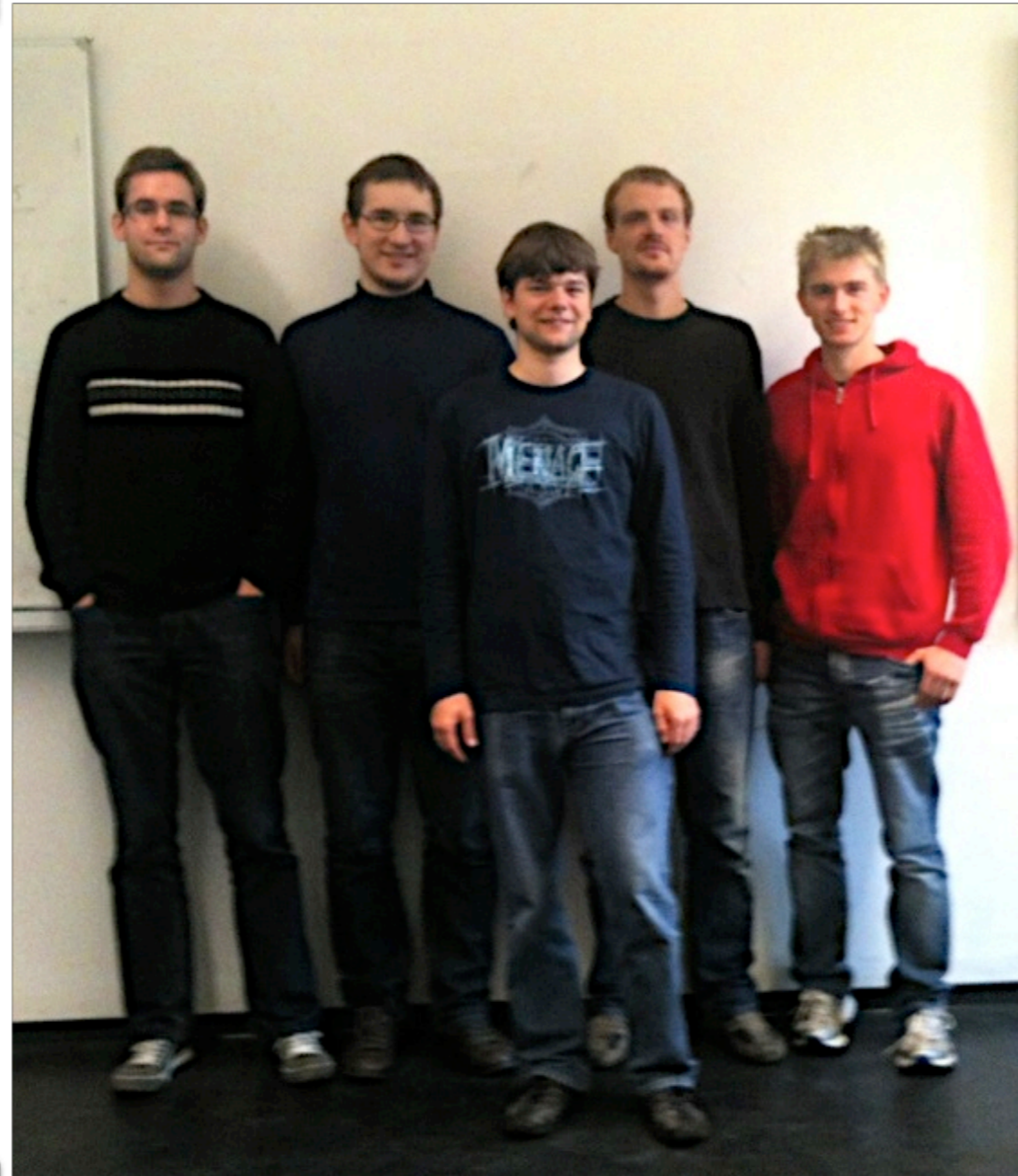
Office hour:
Thursdays, 17:00-18:00 hours (S2 | 02 A206)



Ralf Mitschke

Office hour:
Tuesdays, 15:00-16:00 hours (S2 | 02 A207)

Student Assistants



Organization



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- Thursdays 13:30-15:00 in S2 02 | C205 and C110
- The slides are in English
(Key terms will be translated into German.)
- The slides will generally be available after the lecture
(I will try hard to make a preliminary version available the day before the lecture.)
- The slides and exercises can be downloaded from:
<https://cage.st.informatik.tu-darmstadt.de/eise/public>
(SVN)
(RBG account required)

Exercises

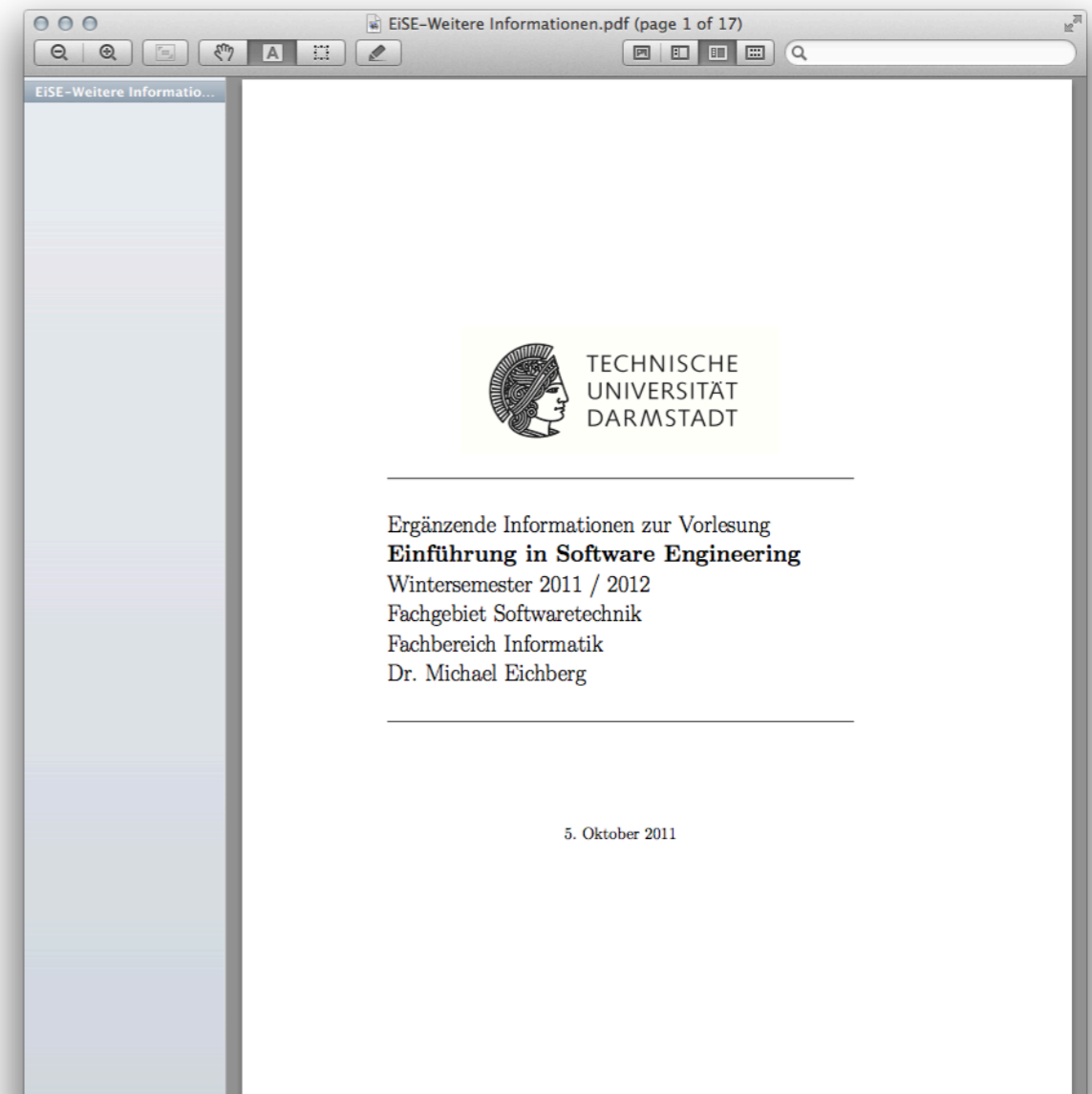
- Every week, we will have an exercise, starting **Thursday, Oct. 27th, ~15:00-15:45 in S2 02 | C205 and C110**
- Team exercises (not-graded) are expected to be solved in teams of 3 to 4 students
- Graded exercises *need to be solved on your own*
- Register for the exercise using Webreg; **sign-up for the exercise until Oct. 26th**
<https://www.dekanat.informatik.tu-darmstadt.de/webreg/index.php>
WebReg is only used to sign-up for the exercise.
- Sign-up as a team; if you don't have a team, **we will** assign you to a team

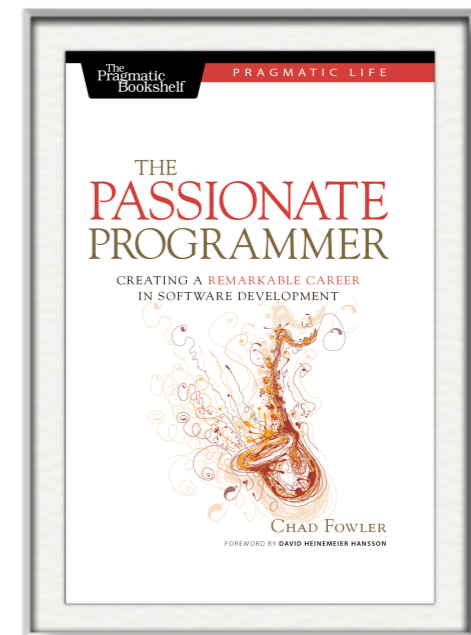
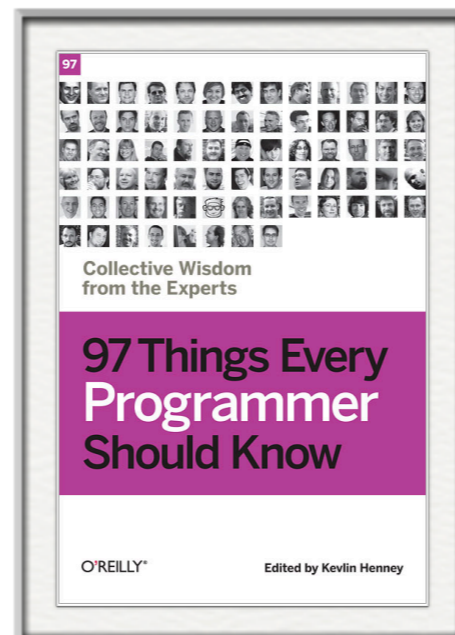
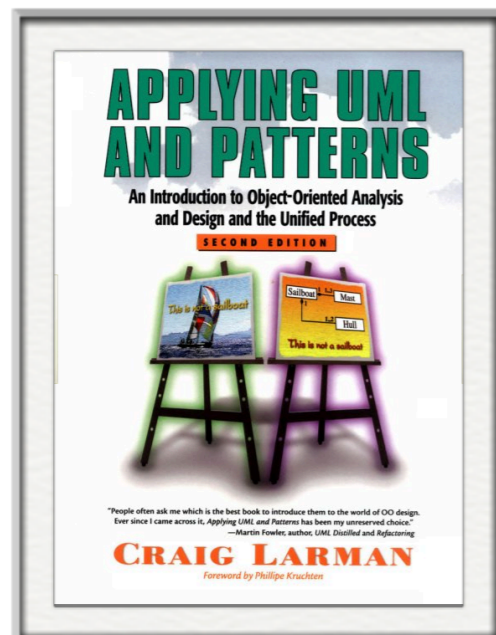
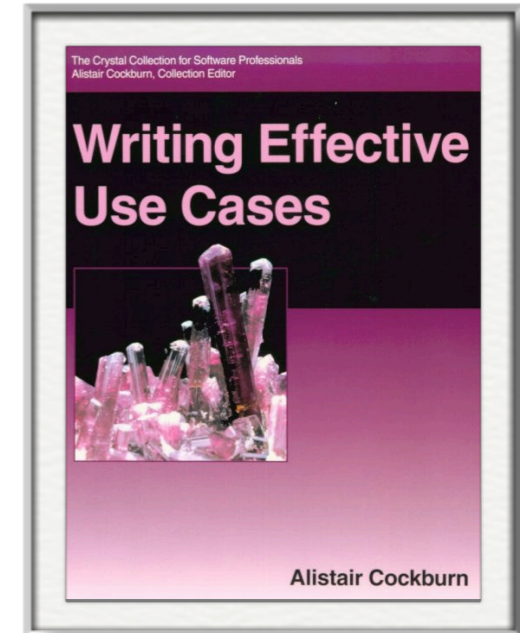
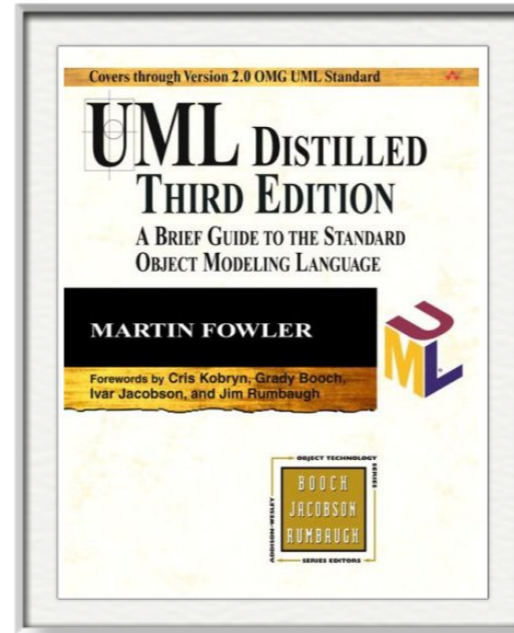
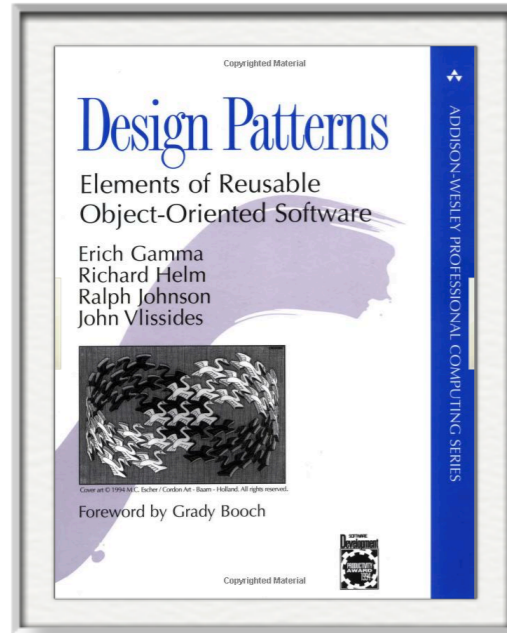
Written Exam

- The exam will be on February, 22nd 2012 - 10:00 - 12:00
(The room will be announced in due time. The exam will take 90min.)
- You need to register for the exam in TUCaN
(There are no further prerequisites; “everyone” can attend the exam.)
- The exam will be an open book exam
- The exam will enable you to choose the tasks that you are particular good at
(I.e., it will not be possible to solve the entire exam in 90 minutes.)

“Additional Information”

- The document stored in the SVN named “*Weitere Informationen*” contains information relevant for the written exam (e.g., the bonus system) and the lecture
(All statements in the document are binding.)





Essential Bibliography

- **Design Patterns - Elements of Reusable Object-Oriented Software**; Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides; Addison-Wesley, 1995
- **Applying UML and Patterns - An Introduction to Object-oriented Analysis and Design**; Craig Larman; Prentice Hall

A Recommended / Very Useful Podcast

The screenshot shows the website for Software Engineering Radio, a podcast for professional software developers. The page features a navigation bar with 'About', 'Praise', and 'Support Us' links. The main content area displays several podcast episodes, including 'Episode 146: Interesting Patterns at EuroPLOP 2009' and 'Episode 144: The Maxine Research Virtual Machine with Doug Simon'. A large blue overlay with the URL 'http://www.se-radio.net/' is positioned in the center. The left sidebar contains a 'SEACON 2009' advertisement and a list of tags such as 'agile architecture', 'concurrency', 'dsIs', 'embedded systems', 'java languages', 'mDsd', 'middleware', 'patterns', and 'processes SOa'. The footer of the page shows the URL 'http://www.se-radio.net/'.

Software Engineering Radio | The Podcast for Professional Software Developers

software engineering radio
the podcast for professional developers

About Praise Support Us

software engineering radio
se-radio.net

SEACON 2009
The Buzzword-free Software Conference

Software Engineering im Norden: Der Blick hinter die Schlagwörter
22. - 23. Juni 2009 in Hamburg, Hotel Atlantic Kempinski

Episode 146: Interesting Patterns at EuroPLOP 2009 many

2009-10-05 - This episode is a discussion with various authors of patterns reviewed at EuroPLOP 2009. Topics include Product Line Engineering, Distributed Development, Open Source and Embedded Systems
[Download MP3](#)

No comments yet
[Add new comment](#) » [more](#)

Episode 144: The Maxine Research Virtual Machine with Doug Simon Doug Simon

2009-09-07 - In this episode we talk with Doug Simon from Sun Microsystems Laboratories about the Maxine Research VM, a so-called meta-circular virtual machine. Maxine is a JVM that is written itself in Java, but aims at taking JVM development to the next level while using highly integrated Java IDEs as ...
[Download MP3](#)

1 Comment
[Add new comment](#) » [more](#)

<http://www.se-radio.net/>

<http://omegataupodcast.net>
The new Podcast on Science and Technology

agile architecture
concurrency dsIs embedded systems java languages mDsd middleware patterns processes SOa
more tags

Interview - Technology - Technology / Guest - Round Table - News

<http://www.se-radio.net/>

External Talks / Events

- **Capgemini**
Excursion / One-day Workshop
December, 1st, 2011
- **ACCSO** - Working Title:
“Beschleunigte Softwareentwicklung”
January, 19th, 2012

The Lecture



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Basic programming skills are required.

- Basic knowledge of **object-oriented programming** concepts is necessary
I.e., you should readily understand the following terms:
 - **class, interface**
 - **object**
 - **inheritance**
 - **polymorphism**
- Working knowledge of the **Java** programming language

-
- To get a brief overview of “all” areas of software engineering
 - To understand agile software development processes
 - To be able to perform object-oriented analysis and design
 - To be able to read and create basic UML diagrams
 - To get first hands-on experience and to learn to use basic software development tools
-

The goal is to enable you to systematically carry out small(er) commercial or open-source software projects.

