Advanced Topics in Software Construction

ATSC 00 – Computer Science Organization

Prof. Armin B. Cremers, Daniel Speicher, Jan Nonnen



The Team of the ATSC Lecture

Course Director:

Prof. Dr. Armin B. Cremers (abc@cs.uni-bonn.de)



Lecturer:

- Daniel Speicher (dsp@cs.uni-bonn.de)
- Jan Nonnen (nonnen@cs.uni-bonn.de)





Tutors

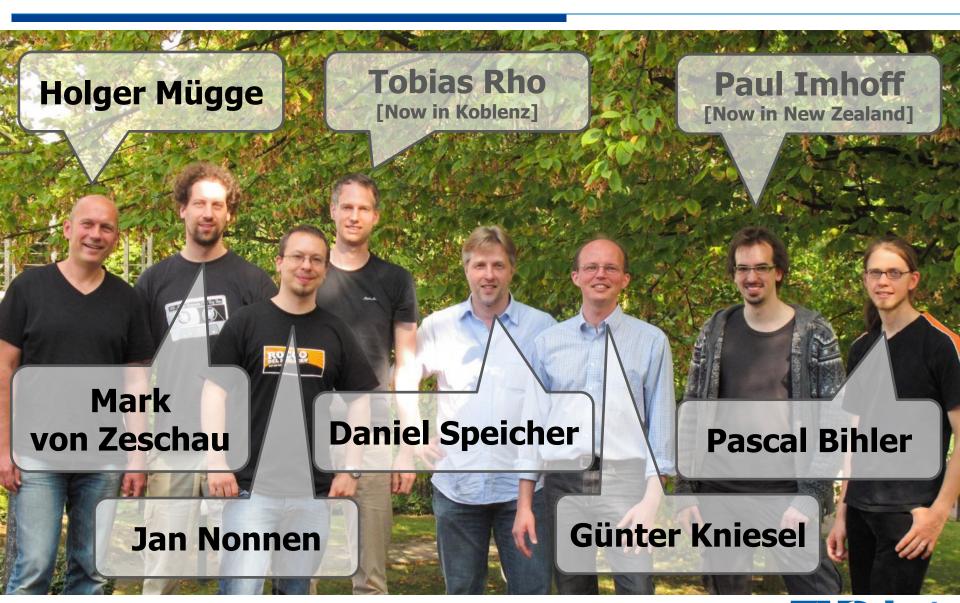
- Stefan Walter (stefan.walter@uni-bonn.de)
- Christian Langer (christian.langer@uni-bonn.de)





Please add "[ATSC2013]" to the subject of your mails to us.

Software Technology Colleagues



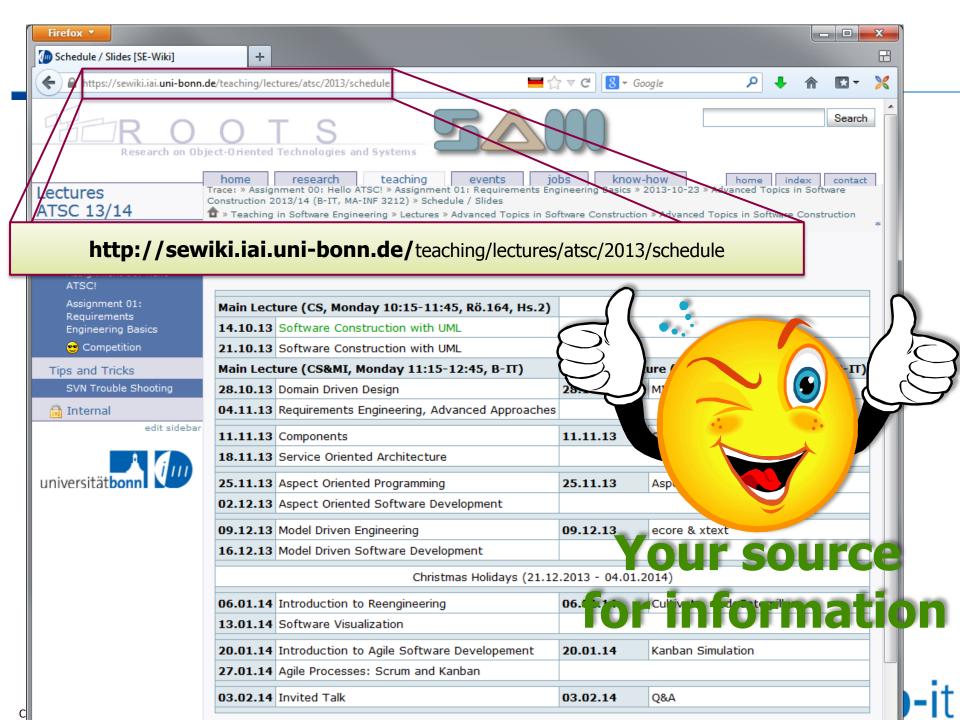
Outline of the lecture

Main Lecture (CS, Monday 10:15-11:45, Rö.164, Hs.2)						
14.10.13	Software Construction with UML					
21.10.13	Software Construction with UML					
Main Lecture (CS&MI, Monday 11:15-12:45, Β-Π)		Practical Lecture (MI, Monday 16:30-18:00, B-IT)				
28.10.13	Domain Driven Design	28.10.13	MI Orga, SCM (SVN, git)			
04.11.13	Requirements Engineering, Advanced Approaches					
11.11.13	Components	11.11.13	OSGi, Webservices			
18.11.13	Service Oriented Architecture					
25.11.13	Aspect Oriented Programming	25.11.13	AspectJ & AJDT			
02.12.13	Aspect Oriented Software Development					
09.12.13	Model Driven Engineering	09.12.13	ecore & xtext			
16.12.13	Model Driven Software Development					
Christmas Holidays (21.12.2013 - 04.01.2014)						
06.01.14	Introduction to Reengineering	06.01.14	Cultivate, CodeCaterpillar			
13.01.14	Software Visualization					
20.01.14	Introduction to Agile Software Developement	20.01.14	Kanban Simulation			
27.01.14	Agile Processes: Scrum and Kanban					
03.02.14	Invited Talk	03.02.14	Q&A			

Practical Lecture

- Bi-weekly on Mondays 16:30-18:00
 - Part of the lecture for Master MI students
 - Master CS students are welcome as well
- Starting 28.10.2013
- First Topic SCM: SVN & Git
 - What is a Software Configuration Management?
 - How to use SVN + Git (Learning by example)
- Your own laptops are welcome!





Class Organization, Master CS Requirements to be credited – In short

- SWS: V2/E2, number of ECTS Credits: 6
- Requirements to get admittance to the written exam
- In short:
 - 50% of the possible points for the exercises. The points are acquired by presenting the solutions in the small exercise groups.

Class Organization, Master CS Requirements to be credited - In more detail

- You work in a group of three students.
- The submission is via the repository.
- Regular attendance to the exercises by all group members.
 - You will meet with your tutor in the week following the deadline.
 - Points will be tracked individually.
 - The whole group has to attend the meeting with the tutor. If you are not there you get zero points.
 - Each group member has to be able to present the solution. You can only get points for tasks that you can explain.
 - No explanation from you = Zero points.
- Still, we recommend that you solve the assignments together.
- **50%** of the points of the total points from all the assignments are required to get admitted to the exam.

Student Assignment Competition

- Every assignment gives a personal score.
- Weekly updated score sum
 - Available on the ATSC Wiki
- Pseudonyms
 - Your identity is only known to us
- Quit at any time
 - Competition is optional!
- Top ranks maybe receive a reward.

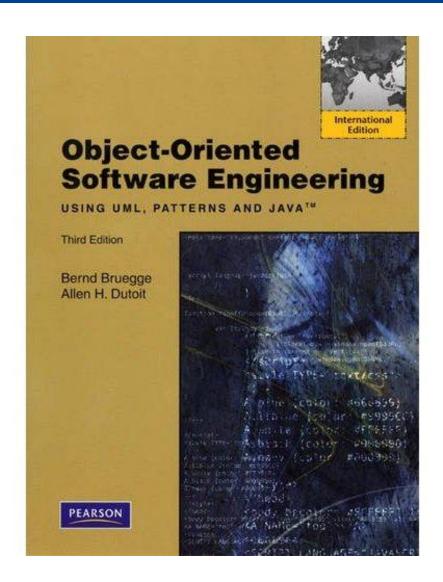
Scoreboard ATSC 2012						
Rank	Change	Handle	Score			
1	1	Wojedu	880			
2	1	Cavelot	876			
3	1	Cuter	870			
4		Noluwa	866			
5		Tanimor	859			
		Cepin	859			
7		Nenekala	848			

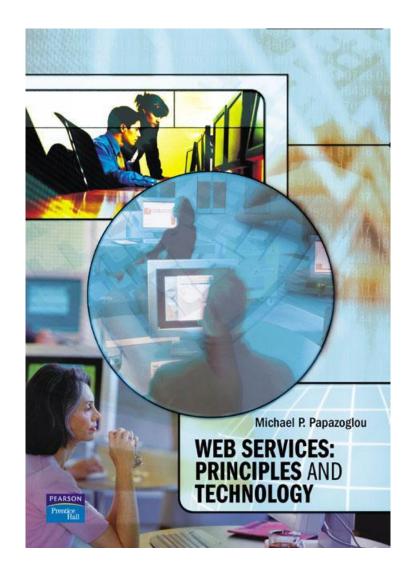
To participate send us your name + a chosen handle by email until the deadline for *Assignment Sheet 2*.

=> See Assignment Sheet 0 for more details



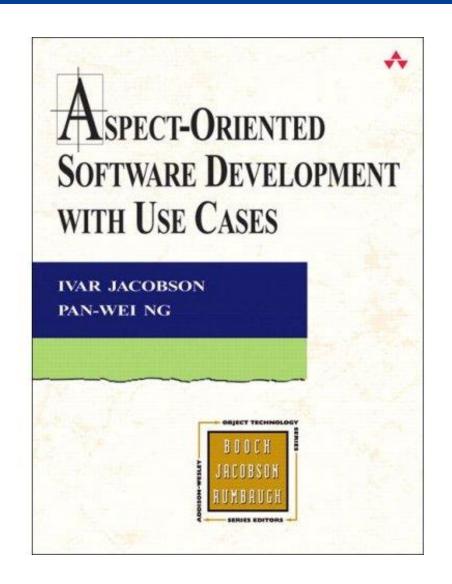
Literature

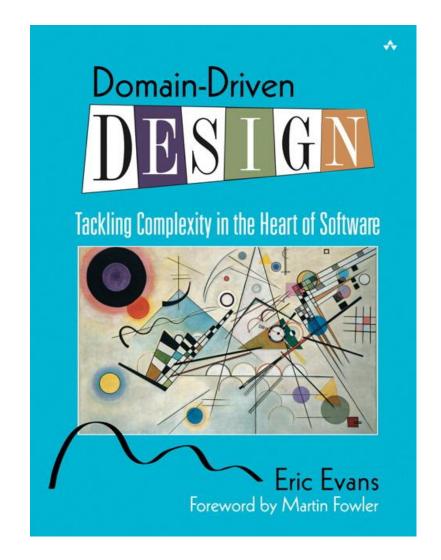






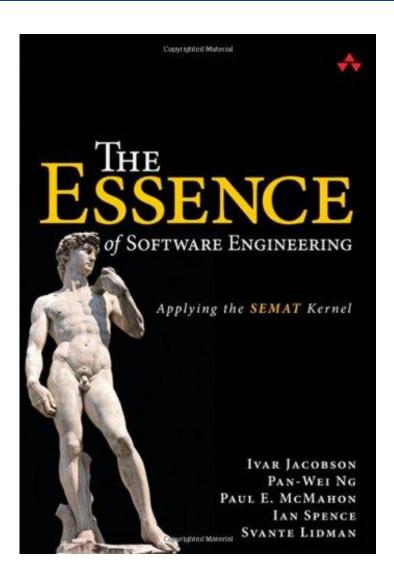
Literature







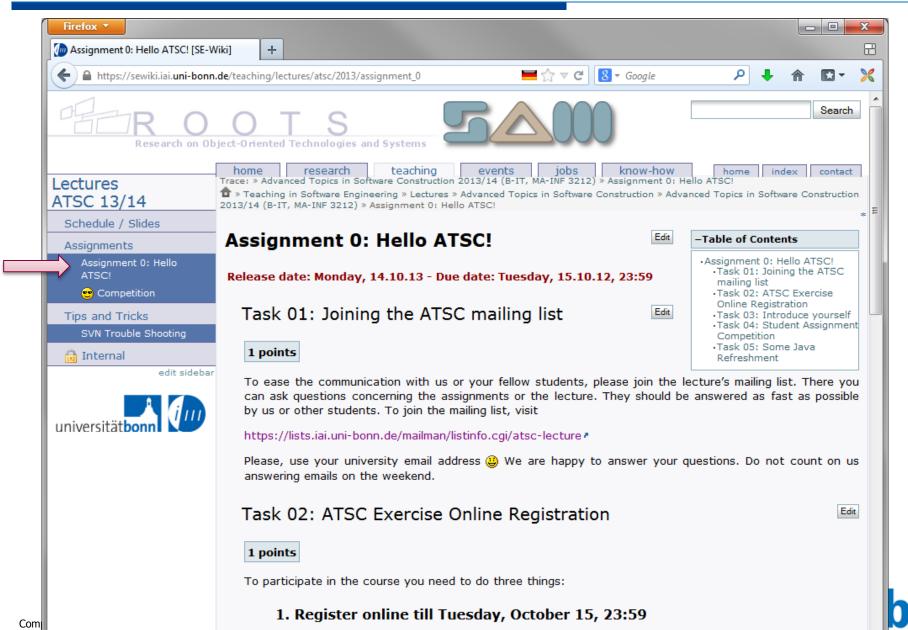
Literature



- All five books are useful for software engineers.
- None covers the whole lecture, but only parts.
- During the course we might mention other literature as well.
- The slides and the assignments will be your main resource.



Your next step: Register for the assignments!



Online Registration for the Exercises

https://uebungen.iai.uni-bonn.de/

- Register with your email
- Wait for the notification email with your password
- 3. Login and select the ATSC lecture
- 4. Enter the timeslots when you are **UNavailable**

We will try to adapt the exercise times to your availability

 But the more time slots you exclude, the smaller the chance to get one of the remaining slots



The semester starts here

- Assignment 0 "Hello ATSC!" already online.
 - Join the mailing list
 - Register for exercises
 - Join the student competition







Good luck, have another successful semester here in Bonn!