

Script generated by TTT

Title: Petter: Programmiersprachen (21.10.2013)

Date: Mon Oct 21 14:15:33 CEST 2013

Duration: 08:40 min

Pages: 7



Programming Languages

Dr. Axel Simon and Dr. Michael Petter

Winter term 2013

Overall Structure

This course is given by

- Michael Petter (*MP*): petter@in.tum.de
- Axel Simon (*AS*): Axel.Simon@in.tum.de
- there are 12 lectures
- there will be a written exam
- there is no repeat exam



Overall Structure

This course is given by

- Michael Petter (*MP*): petter@in.tum.de
- Axel Simon (*AS*): Axel.Simon@in.tum.de
- there are 12 lectures
- there will be a written exam
- there is no repeat exam

We present selected topics that focus on current issues in the design or implementation of programming languages:

- concurrency (*AS*)
- object orientation (*MP*)



1. Concurrency (AS)

- 1 Low-Level Concurrency, Memory Barriers
- 2 Wait-Free Algorithms
- 3 Locks and Monitors
- 4 Transactional Memory

2. Object Orientation (MP)

- 1 Method dispatching
- 2 Multiple Inheritance
- 3 Mixins and Traits
- 4 Prototype based Languages
- 5 Aspect Orientation
- 6 Generics and Templates

Lectures:

- every Friday at 2:15pm
- slides on <http://www2.in.tum.de/hp/Main?nid=233>
- lectures are recorded using the tele-teaching tool

Lectures:

- every Friday at 2:15pm
- slides on <http://www2.in.tum.de/hp/Main?nid=233>
- lectures are recorded using the tele-teaching tool

Exercises:

- an exercise sheet is made available with every lecture
- exercises are voluntary but recommended

Lectures:

- every Friday at 2:15pm
- slides on <http://www2.in.tum.de/hp/Main?nid=233>
- lectures are recorded using the tele-teaching tool

Exercises:

- an exercise sheet is made available with every lecture
- exercises are voluntary but recommended

Tutorial sessions:

- every Monday at 2.15pm in this room (00.13.009A)
- attendance is voluntary
- show up
 - ▶ at 2.15pm sharply, it is a class after all
 - ▶ if you have questions of the general kind
 - ▶ if you have problems with the exercise sheet

⚠ the Thursday slot in TUMonline is a glitch, we do not meet on Thursdays