## Part I

# **Organizational Matters**

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- ► Modul: IN2004
- Name: "Efficient Algorithms and Data Structures II" "Effiziente Algorithmen und Datenstrukturen II"
- ECTS: 8 Credit points
- Lectures:
  - ► 4 SWS Wed 12:15-13:45 (Room 00.13.009A)
    - Fri 10:15-11:45 (MS HS3)
- Webpage: http://www14.in.tum.de/lehre/2018SS/ea/



#### The Lecturer

- Harald Räcke
- Email: raecke@in.tum.de
- Room: 03.09.044
- Office hours: (per appointment)

#### **Tutorials**

- ► Tutor:
  - Richard Stotz
  - stotz@in.tum.de
  - Room: 03.09.057
  - per appointment
- Room: 03.11.018
- ► Time: Mon 14:00–15:30

#### **Assessment**

- In order to pass the module you need to pass an exam.
- Exam:
  - 2.5 hours
  - Date will be announced shortly.
  - There are no resources allowed, apart from a hand-written piece of paper (A4).
  - Answers should be given in English, but German is also accepted.



#### **Assessment**

#### Assignment Sheets:

- An assignment sheet is usually made available on Monday on the module webpage.
- Solutions have to be handed in in the following week before the tutorial on Monday.
- You can hand in your solutions by putting them in the right folder in front of room 03.09.020 or in person in the tutorial.
- Solutions have to be given in English.
- Solutions will be discussed in the subsequent tutorial.
- The first one will be out on Monday, 16 April.



#### 1 Contents

Part 1: Linear Programming

Part 2: Approximation Algorithms

#### 2 Literatur

V. Chvatal:

Linear Programming,

Freeman, 1983

R. Seidel:

Skript Optimierung, 1996

D. Bertsimas and J.N. Tsitsiklis:

Introduction to Linear Optimization,

Athena Scientific, 1997

🔋 Vijay V. Vazirani:

Approximation Algorithms,

Springer 2001



