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
    Mon 12:15-14:45 (Room 00.13.009A)
    Fri 10:15-11:45 (Room 00.13.009A)
- Webpage: http://www14.in.tum.de/lehre/2014SS/ea/

The Lecturer

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

Tutorials

- Tutor:
  - Chintan Shah
  - chintan.shah@tum.de
  - Room: 03.09.059
  - per appointment
- Room: 03.11.018
- Time: Tue 14:15-15:45

Assessment

- ▶ In order to pass the module you need to pass an exam.

- ▶ Exam:
  - ▶ 3 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 lecture on Monday.
  - ▶ You can hand in your solutions by putting them in the right folder in front of room 03.09.052.
  - ▶ Solutions have to be given in English.
  - ▶ Solutions will be discussed in the subsequent tutorial on Tuesday.
  - ▶ The first one will be out on Monday, 14 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

David P. Williamson and David B. Shmoys:
The Design of Approximation Algorithms,
Cambridge University Press 2011

G. Ausiello, P. Crescenzi, G. Gambosi, V. Kann, A.
Marchetti-Spaccamela, and M. Protasi:
Complexity and Approximation,
Springer, 1999