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 12:15-13:45 (Room 00.13.009A) Fri 12:15-13:45 (Room 00.13.009A)
- Webpage: http://www14.in.tum.de/lehre/2015SS/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 16:15-17:45

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 03.09.020.
- 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, 20 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