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 10:15-11:45 (Room 00.13.009A)
    Fri 10:15-11:45 (MS HS3)

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The Lecturer

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

Tutorials

- Tutor:
  - Omar AbdelWanis
  - omar.abdelwanis@tum.de
  - per appointment
- Room: 03.11.018
- Time: Mon 14:00–16:00

Assessment

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

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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