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/2017SS/ea/

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The Lecturer

Part I

"Effiziente Algorithmen und Datenstrukturen II"

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

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Tutorials

- ► Tutor:

 - ► Richard Stotz
 - stotz@tum.deRoom: 03.09.057
 - per appointment

► Time: Wed 16:00-17:30

- . Doom: 02 11 01
- ► Room: 03.11.018

The Lecturer

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- ► Harald Räcke
- ► Email: raecke@in.tum.de
- ► Room: 03.09.044
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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

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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

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