

Communication Systems Overview & Organizational Issues

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Requirements + Examinations

Requirements

- **Betriebssysteme und Netze**

Examinations

- **requires: Vordiplom (or similar)**
- **different for various studies**

Audience:

- **Informatik**
- **Wirtschaftsinformatik**
- **Informationssystemtechnik**
- **Mathematik**
- **Medienwissenschaften**
- **Elektrotechnik**
- ...

General and Administrative Issues

Lecture (4+2):

- Interactivity

Dates and Location:

- Tuesday 13:¹⁵-14:⁴⁵, Lecture Hall PK4.1
- Thursday 9:⁴⁵-11:¹⁵, Lecture Hall SN20.2
- Ü: Wednesday 13:¹⁵-14:⁴⁵, Lecture Hall SN23.1

Persons involved:

- **Prof. Dr. Lars Wolf**
 - room 138
 - email: wolf@ibr.cs.tu-bs.de
 - consultation hour: Wednesday 15⁰⁰ (please contact me / secretary in advance)
- **J. Diederich**
 - room 133
 - email: diederich@ibr.cs.tu-bs.de

News, etc.: <http://www.ibr.cs.tu-bs.de/lehre/ws0203/ks/>

Literature / Books

Slides

- **in the web (IBR):**
<http://www.ibr.cs.tu-bs.de/lehre/ws0203/ks/>

Books

Author	Title	Publisher
Andrew Tanenbaum	<i>Computer Networks (4th Edition)</i>	Prentice Hall, 2003
Larry Peterson, Bruce Davie	<i>Computer-Netze Computer Networks (2nd Ed.)</i>	dPunkt, 2000 Morgan Kaufmann, 1996
James Kurose, Keith Ross	<i>Computernetze Computer Networking</i>	Addison-Wesley (Pearson Studium) 2002 Addison-Wesley, 2001
S. Keshav	<i>An Engineering Approach to Com- puter Networks</i>	Addison-Wesley, 1997

Journals

Some interesting publications:

- ACM/IEEE Transactions on Networking
- ACM Computer Communications Review (SIGCOMM)
- ACM Mobile Communications Review (MOBICOM)
- IEEE Journal on Selected Areas in Communications
- IEEE Communications
- IEEE Networks
- Computer Communications
- Computer Networks
- etc. etc.

Standardization documents:

- RFCs (Request for Comments)
- Internet Drafts

<http://www.ietf.org>

Conferences & Workshops

Conferences

- ACM SIGCOMM
- INFOCOMM
- ICC
- KiVS
- ...

Workshops, etc.

- Network and Operating Systems for Digital Audio and Video (NOSSDAV)
- International Workshop on Quality of Service (IWQoS)
- COST237
- LANMAN
- ...

Access to many journals, conference proceedings, etc.

- digital libraries (ACM, IEEE, Springer, ...)

<http://www.acm.org/dl>

<http://ieeexplore.ieee.org/>

- access for subscribers (personal or institutional: TU BS is / will be)

Outline

Complementary Courses: Multimedia Systems, Distributed Systems, Mobile Communications, Security, Web, Mobile+UbiComp, QoS									
	Applications								
L5	Application Layer (Anwendung)	Transitions & Addressing	P2P	Email	Files	Teletnet	Web	IP-Tel: Signal. H.323 SIP	Media Data Flow RT(C)P
L4	Transport Layer (Transport)		WAN: ISDN & ATM	Internet: TCP, UDP			Mobile IP	Mobile Communications MM COM - QoS specific	Transport
L3	Network Layer (Vermittlung)			Internet: IP					Network
L2	Data Link Layer (Sicherung)			LAN, MAN High-Speed LAN					
L1	Physical Layer (Bitübertragung)		Other Lectures of "ET/IT" & Computer Science						
	Introduction								