



EINLADUNG

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ZIH-Kolloquium

Titel: **Traffic Engineering and Performance Engineering for
Multimedia Applications in the Internet and in Mobile
Networks**

Referent: **Prof. Dr. Bernd E. Wolfinger**
Telecommunications and Computer Networks Division
Computer Science Department
Universität Hamburg

Kurzfassung:

The talk summarizes the long-term experiences in traffic and performance engineering within the Telecommunications and Computer Networks Division at Hamburg University. In particular, emphasis will be given to our recent research results related to measurement-based load characterization of video streams, to formal load specification and analytical modelling of load transformations (stochastic load transformations as they are currently elaborated in the DFG project LUPUS) as well as to the elaboration of two powerful traffic engineering tools: a load generator for multimedia traffic in service-integrated networks and a network emulator to reflect the packet delay and loss behaviour of, possibly interconnected, computer and communication networks. Some case studies will be presented to illustrate the broad applicability of our load generator (UniLoG) and network emulator (NetEmu) prototypes. These experiments will also show that valid QoS (Quality of Service)-related studies for distributed real-time applications can be flexibly supported by a combined usage of both, the network emulator and the load generator tool. With our approach the strict separation between network-oriented and application-oriented performance studies is no longer required – an important step towards a realistic QoS evaluation from an end-user's point of view.

Ort: **Willers-Bau, C 207**
Zellescher Weg 12 - 14, 01069 Dresden

Zeit: **Donnerstag, 10. Juli 2008, 11:00 Uhr**

gez. Prof. Dr. Wolfgang E. Nagel