Informatik-Oberseminar

Fachgruppe Informatik

Lehrstuhl für Informatik 4

RHEINISCH-WESTFÄLISCHE TECHNISCHE HOCHSCHULE AACHEN

EINLADUNG

Zeit: 27. Okt. 2009, 14:00 Uhr

Ort: AH 1, Ahornstr. 55

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Titel: Tunable Video Streaming
for Wireless Access Networks

Abstract:

Multimedia traffic like Video Streaming is becoming more and more important in the Internet. Existing transport protocols like TCP and UDP/RTP are not able to deliver the required service as needed. A new transport protocol is required to cope with these problems.

Future transport protocols need four key features: tunability, adaptability, compatibility and flexibility. With these requirements in mind, a new transport protocol TPTR (Transport Protocol with Tunable Reliability) has been defined. It consists of three sublayers: 1) Application Framing, 2) Windowing, Reliability, Timing and Flow-Control, and 3) Congestion Control.

The presentation will highlight several improvements to existing techniques: At the Application Framing level the concept of decodability will be presented which transforms structural information into priority values. At the next sublayer the generalised priority based scheduler is introduced, and an analysis of the congestion control problem and some solutions are given.

Es laden ein: Die Dozenten der Informatik