Advanced Internet Services

Henning Schulzrinne
Columbia University, New York
schulzrinne@cs.columbia.edu

Columbia University, Spring 1997

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Tutorial Schedule

9.00	-	10.30	Tutorial
10.30	-	11.00	Coffee break
11.00	-	12.30	Tutorial
12.30	-	14.00	Lunch
14.00	-	15.30	Tutorial
15.30	-	16.00	Coffee break
16.00	-	17.30	Tutorial

Tutorial Outline

- Digital Audio and Video
  - Speech properties and digital representation
  - Video properties and digital representation
  - JPEG
  - MPEG
  - H.263
- Internet architecture and philosophy
- IPv6
- IP Multicast
  - Applications, service models
  - End Systems: IGMP
  - Routing: DVMRP, MOSPF, PIM
  - Reality: MBONE
- Resource reservation
  - Policing
  - Scheduling
  - RSVP, YESSIR
  - Service models
  - ATM
- Transport
  - RTP
  - RTCP
  - Compressed RTP
- Application adaptation
  - Rate adaptation

  - Loss compensation
  - Jitter adaptation
- Multimedia conferencing
  - Internet conferencing model
  - session setup: H.323
  - session setup: SIP
  - RTSP
- Resource discovery: URN, X.500, LDAP, whois++,

Tutorial Objectives

- descriptive: what's out there
- critical: what's wrong with. . . , how else can we do this?
- interactive: discussion, questions encouraged