Advanced Internet Services

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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 (in Hotel, included)
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
- Review of Internet Protocols and Service Model
  - IP, UDP, TCP, DNS
  - Architecture and Philosophy
- IP Multicast
  - Applications, Service Models
  - End Systems: IGMP

  - Routing: DVMRP, MOSPF, PIM
  - Reality: MBONE
- Resource Reservation
  - Policing
  - Scheduling
  - RSVP
  - Service Models
  - ATM
- Transport
  - RTP
  - RTCP
  - Compressed RTP
- Application Adaptation

- Rate Adaptation
- Loss Compensation
- Jitter Adaptation

- Resource Discovery: URN, X.500, LDAP, whois++,
- Multimedia Conferencing
  - Internet model, SIP
  - H.323
  - RTSP
- Advanced Web Services
  - Java script
  - Security
  - State Maintenance

Tutorial Objectives

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