

NOSSDAV 2001 Technical Program

Program At-a-Glance

Date	Time	
Sunday, June 24, 2001	7:00 PM - 9:00 PM	<i>Reception and Registration</i>
Monday, June 25, 2001	8:00 AM - 9:00 AM	<i>Registration</i>
	9:00 AM - 10:30 AM	<i>Ideas for Next Generation Content Delivery</i> (Peter Danzig)
	11:00 AM - 12:30 PM	<i>Streaming Media</i>
	1:30 PM - 3:00 PM	<i>Quality of Service</i>
	3:30 PM - 5:30 PM	<i>Multicast</i>
	7:00 PM - 8:30 PM	<i>Panel discussion: multimedia after a decade of research</i> (What have we learned? What's left to do?)
Tuesday, June 26, 2001	9:00 AM - 10:30 AM	<i>Mobile Multimedia</i>
	11:00 AM - 12:00 PM	<i>Potpourri</i>
	1:30 PM - 3:00 PM	<i>Collaboration and Internet Telephony</i>
	3:30 PM - 4:30 PM	<i>TCP for Multimedia</i>

Paper Sessions

Monday, June 25, 2001

9:00

AM - [*Ideas for Next Generation Content Delivery*](#) (Peter Danzig)

10:30 AM

11:00

AM - [*Streaming Media*](#)

12:30 PM

Mocha: A Quality Adaptive Multimedia Proxy Cache for Internet Streaming
Reza Rejaie (AT&T Labs - Research), Jussi Kangasharju (Institut Eurecom)

Bayeux: An Architecture for Wide-Area, Fault-Tolerant Data Dissemination

Shelley Zhuang (University of California-Berkeley), Ben Zhao (University of California-Berkeley),

Anthony D. Joseph (University of California at Berkeley), Randy H. Katz (University of California at Berkeley), John Kubiawicz (University of California-Berkeley)

Analysis of Educational Media Server Workloads

Jussara Almeida (University of Wisconsin-Madison), Jeffrey Krueger (University of Wisconsin-Madison), Derek Eager (University of Saskatchewan), Mary Vernon (University of Wisconsin - Madison)

1:30

PM -

3:00

PM

Quality of Service

Resource Allocation and Management in DiffServ Networks for IP telephony

Maarten Buchli (Alcatel Bell), Danny De Vleeschauwer (Alcatel Bell), Jan Janssen (Alcatel Bell), Annelies Van Moffaert (Alcatel Bell), Guido Petit (Alcatel Bell)

Blue: An Alternative Approach To Active Queue Management

Wu-chang Feng (Univ. of Michigan), Dilip Kandlur (IBM Research), Debanjan Saha (Tellium, Inc), Kang G. Shin (University of Michigan)

SACRIO: An active buffer management scheme for differentiated service networks

Saikrishnan Gopalakrishnan (Cisco Systems), Narasimha Reddy (Texas A & M University)

3:30

PM -

5:30

PM

Multicast

A comparison of layering and stream replication video multicast schemes

Taehyun Kim (Georgia Institute of Technology), Mostafa Ammar (Georgia Institute of Technology)

Scalable Techniques for Discovering Multicast Tree Topology

Kamil Sarac (University of California, Santa Barbara), Kevin Almeroth (University of California, Santa Barbara)

Dimensioning Server Access Bandwidth and Multicast Routing in Overlay Network

Sherlia Shi (Washington University), Jonathan Turner (Washington University in St. Louis), Marcel Waldvogel (Washington University in St. Louis)

The Utility of Feedback in Layered Multicast Congestion Control

Sergey Gorinsky (University of Texas), Harrick Vin (Univ. of Texas)

7:00

PM -

8:30

PM

Panel discussion: multimedia after a decade of research (What have we learned? What's left to do?)

Tuesday, June 26, 2001

9:00

AM -

10:30

AM

Mobile Multimedia

Network Support for Mobile Multimedia using a Self-adaptive Distributed Proxy

Zhuoqing Morley Mao (University of California at Berkeley), Hoi-Sheung Wilson So (University of California at Berkeley), Byunghoon Kang (University of California at Berkeley), Randy Katz (University of California at Berkeley)

Performance Evaluation of UDP Lite for Cellular Video

Amoolya Singh (University of California at Berkeley), Almudena Konrad (University of California at Berkeley), Anthony D. Joseph (University of California at Berkeley)

Dynamic Handoff of Multimedia Streams

Roger Karrer (ETH Zurich), Gross Thomas (ETH Zurich)

**11:00
AM -
12:00
PM**

Potpourri

Scaling video conferencing through spatial tiling

Ladan Gharai (USC/ISI), Colin Perkins (USC/ISI), Allison Mankin (USC/ISI)

Lightweight Kernel/User Communication for Real-Time and Multimedia Applications

Christian Poellabauer (Georgia Institute of Technology), Karsten Schwan (Georgia Institute of Technology), Richard West (Boston University)

**1:30
PM -
3:00
PM**

Collaboration and Internet Telephony

A Case for Network Musical Performance

John Lazzaro (University of California, Berkeley), John Wawrzynek (University of California, Berkeley)

Very Low Bit-rate Audio Coding Technique Using MIDI Representation

Toshio Modegi (Dai Nippon Printing Co., Ltd.)

Towards Junking the PBX: Deploying IP Telephony

Wenyu Jiang (Columbia University), Jonathan Lennox (Columbia University), Henning Schulzrinne (Columbia University), Kundan Singh (Columbia University)

**3:30
PM -
4:30
PM**

TCP for Multimedia

TCP-Real Improving Real-time Capabilities of TCP over Heterogeneous Networks

Chi Zhang (Northeastern University), Vassilis Tsoussidis (Northeastern University)

Video over TCP with Explicit Delay Notification

Pai-Hsiang Hsiao (Harvard University), H. T. Kung (Harvard University), Koan-Sin Tan (National Chiao-Tung University)