



Association for
Computing Machinery

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NOSSDAV 2008

18th International workshop on
Network and Operating Systems Support
for Digital Audio and Video
Braunschweig, Germany May 28-30, 2008



[Home](#)

Workshop Program

[Call for
papers and
for demos
and data
sets](#)

Wednesday, 28. May 2008

19:00 - Reception

[Program](#)

Thursday, 29. May 2008

[Keynote](#)

09:00-09:15 Welcome

[Invited talk](#)

09:15-10:15 Keynote: Overlays can do more ... if not everything

[Organization](#)

10:15-10:45 Break

[Important
dates](#)

10:45-12:15 Session 1

[Submissions](#)

12:15-13:15 Break

[Final paper
instructions](#)

13:15-14:45 Session 2

[Registration](#)

14:45-15:15 Break

[Location](#)

15:15-16:45 Session 3

[Travel
logistics](#)

16:45-17:15 Break

[Past](#)

17:15-18:15 Session 4

20:00- Workshop event

NOSSDAV
Workshops

Friday, 30. May 2008

08:30-09:15	Demo Overview Madness (2 min per Demo)
09:15-11:00	<u>Demo session</u>
11:00-11:15	Demo Teardown Break
11:15-12:45	<u>Session 5</u>
12:45-13:45	Break
13:45-14:45	<u>Invited Talk</u>
14:45-15:15	Break
15:15-16:45	<u>Session 6</u>
16:45-17:00	Summary

Session 1: Networking for Virtual Worlds

Session chair: JongWon Kim

Optimising Online FPS Game Server Discovery through Clustering Servers by Origin Autonomous System

Grenville Armitage (Swinburne University of Technology, AU)

Receiver-Driven View-Dependent Streaming of Progressive Mesh

Wei Cheng, Wei Tsang Ooi (National University of Singapore, SG)

Selection Strategies for Peer-to-Peer 3D Streaming

Wei-Lun Sung, Shun-Yun Hu, Jehn-Ruey Jiang (National Central University, TW)

Session 2: NOSS

Session chair: Ewa Kusmierok

Remote Active Queue Management

Dan Ardelean (Google Inc., US); Ethan Blanton (Purdue University, US); Maxim Martynov (Purdue University, US)

Group Unicast for the Real World

Elad Lahav, Martin Karsten, Tim Brecht, Weihang Wang, Tony Zhao (University of Waterloo, CA)

Evaluation of Multi-Core Scheduling Mechanisms for Heterogeneous Processing Architectures

Håkon Stensland, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)

Session 3: DAV

Session chair: Matthias Hollick

Analyzing Video Services in Web 2.0: A Global Perspective

Mohit Saxena, Umang Sharan, Sonia Fahmy (Purdue University, US)

Decoding-Workload-Aware Video Encoding

Yicheng Huang, Guangming Hong, Vu An Tran, Ye Wang (National University of Singapore, SG)

On Developing Tangible Interfaces for Video Streaming Control: a Real Case Study

Stefano Ferretti, Marco Rocchetti, Fabio Strozzi (University of Bologna, IT)

Session 4: Video Streaming in Wireless Environments

Session chair: Markus Kampmann

Performance Evaluation of Video Streaming in Multihop Wireless Mesh Networks

Xiaolin Cheng (University of California, Davis, US); Prasant Mohapatra (University of California, Davis, US); Sung-Ju Lee (HP Labs, US); Sujata Banerjee (Hewlett-Packard Laboratories, US)

An H.264/SVC-based adaptation proxy on a WiFi router

Ingo Kofler, Martin Prangl, Robert Kuschnig, Hermann Hellwagner (Klagenfurt University, AT)

Session 5: Analyses and conclusions

Session chair: Ye Wang

Traffic Analysis of Avatars in Second Life

James Kinicki (University of Michigan, US); Mark Claypool (Worcester Polytechnic Institute, US)

Understanding Hybrid CDN-P2P: Why Limelight Needs Its Own RedSwoosh

Cheng Huang (Microsoft Research, US); Angela Wang (Polytechnic University, US); Jin Li (Microsoft Research, US); Keith W. Ross (Brooklyn Polytech, US)

Skype Video Responsiveness to Bandwidth Variations

Luca De Cicco, Saverio Mascolo, Vittorio Palmisano (Politecnico di Bari, IT)

Session 6: Streaming with P2P support

Session chair: Wei Tsang Ooi

Modeling and Evaluation of Overlay Generation Problem for Peer-assisted Video Adaptation and Streaming

Razib Iqbal (University of Ottawa, CA); Behnoosh Hariri (Sharif University of Technology, IR); Shervin Shirmohammadi (University of Ottawa, CA)

Replication for P2P VoD: Eager or Lazy

Bin Cheng (Huazhong University of Science and Technology, CN); Lex Stein (Microsoft Research Asia, CN); Hai Jin (Huazhong University of Science and Technology, CN); Zheng Zhang (Microsoft Research Asia, CN)

Load Balancing for Multimedia Streaming in Heterogeneous Peer-to-Peer Systems

Kalman Graffi, Sebastian Kaune, Konstantin Pussep, Aleksandra Kovacevic, Ralf Steinmetz (Technische Universität Darmstadt, DE)

Demo session

Session chair of the Demo Overview Madness: Ralf Steinmetz

<p><u>A Demo for Affinity based Content Delivery Architectures</u> Christian Spielvogel (University Neuchatel, CH); Laszlo Böszörményi (Klagenfurt University, AT); Peter Kropf (University Neuchatel, CH)</p>
<p><u>A Mechanism for Presentation-Layer Media Continuity in Media Playback Mode</u> Ishan Vaishnavi, Pablo Cesar, A.J. Jansen, Bo Gao, Dick C.A. Bulterman (Centrum voor Wiskunde en Informatica (CWI), NL)</p>
<p><u>A Multi-Agent-based Toolkit for Multimedia-oriented Collaboration Environments</u> Sangwoo Han, JongWon Kim (Gwangju Institute of Science and Technology, KR)</p>
<p><u>Adaptive Video Streaming for Mobile Clients</u> Jens Brandt, Lars Wolf (TU Braunschweig, DE)</p>
<p><u>Fast and Flexible Video Content Browsing based on H.264/AVC Features</u> Klaus Schöffmann, Laszlo Böszörményi (Klagenfurt University, AT)</p>
<p><u>IMS Advanced Media Delivery</u> Heiko Perkuhn, Markus Kampmann (Ericsson Research, DE)</p>
<p><u>iTVP: platform for digital audio and video delivery over broadband IP networks</u> Miroslaw Czyrnek, Cezary Mazurek, Ewa Kusmieriek, Maciej Stroinski (Poznan Supercomputing and Networking Center, PL)</p>
<p><u>MPEG Analyzer: A Tool for visualizing MPEG encoding characteristics</u> Matthias Dick, Sven Lahde, Lars Wolf (TU Braunschweig, DE)</p>
<p><u>Planet PI4</u> Tonio Triebel, Benjamin Guthier, Richard Süselbeck, Gregor Schiele, Wolfgang Effelsberg (University of Mannheim, DE)</p>
<p><u>QoS Adaptation in Streaming 3D Graphics for FAIRVIEW</u> Shinya Yamamoto (Nara Institute of Science and Technology, JP); Yoshihiro Murata (Nara Institute of Science and Technology, JP); Naoki Shibata (Shiga University, JP); Keiichi Yasumoto (Nara Institute of Science and Technology, JP); Minoru Ito (Nara Institute of Science and Technology, JP)</p>
<p><u>TCP Enhancements for Interactive Thin Stream Applications</u> Andreas Petlund, Kristian Evensen, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)</p>
<p><u>Transparent Protocol Translation and Load Balancing on a Network Processor in a Media Streaming Scenario</u> Håvard Espeland, Carl Henrik Lunde, Håkon Kvale Stensland, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)</p>
<p><u>Receiver-Driven View-Dependent Streaming of Progressive Mesh (demo)</u> Wei Cheng, Wei Tsang Ooi (National University of Singapore, SG)</p>
<p><u>NMP: Network-centric Music Performance</u> Zefir Kurtisi, Xiaoyuan Gu, Matthias Dick, Lars Wolf (Technische Universität Braunschweig, DE)</p>
<p><u>The Impact of Packet Loss on Perceptual Video Quality</u> Mu Mu, Andreas Mauthe (Lancaster University, UK)</p>