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NOSSDAV 2007

17th International workshop on Network and Operating Systems Support for Digital Audio & Video

Urbana-Champaign, IL, USA
June 4-5, 2007

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Technical Program

June 4, 2007

9:00-	Opening	
9:15	Reza Rejaie, Klara Nahrstedt	
9:15-10:45	Session 1 - Streaming & Display <i>Chair : Kevin Almeroth</i>	
	Mosaicing videos to stream over multiple independent channels Christopher Boehnen, Allison Regier, Deborah Thomas, Surendar Chandra, Patrick Flynn (University of Notre Dame, US)	
	Streaming Terrains Francis Chang, Wu-chi Feng (Portland State University, US)	
	Blink: Advanced Display Multiplexing for Virtualized Applications Jacob Hansen (University of Copenhagen, DK)	
10:45-11:00	Break	
11:00-12:00	Keynote Talk: QoS in Wireless Mesh Networks: A Challenging Endeavor <u>Ralf Steinmetz</u> (Technische Universität Darmstadt) <u>Talk abstract and Biography</u> Presentation:	
12:00-1:30	Lunch Break	
1:30-3:00	Session 2 - Gaming <i>Chair : Wu-chi Feng</i>	
	Enhancing Game-Server AI with Distributed Client Computation John Douceur (Microsoft, US), Jacob Lorch (Microsoft Research, US), Frank Uyeda (University of California, San Diego, US), Randall Wood (Microsoft, US)	
	RACS: A Referee Anti-Cheat Scheme for P2P Gaming Steven Webb, Sieteng Soh, W. Lau (Curtin University of Technology, AU)	
	Traffic Analysis Beyond This World: the Case of Second Life Stenio Fernandes (CEFET-AL, BR), Carlos Kamienski (University of the ABC, BR), Djamel Sadok (Federal University of Pernambuco, BR), Josilene Moreira (Federal University of Pernambuco, BR), Rafael Antonello (Federal University of Pernambuco, BR)	
3:00-3:15	Break	
3:15-	Session 3 - Coding	

4:45 *Chair : Baochun Li*

PAT: Peer-Assisted Transcoding for Overlay Streaming to Heterogeneous Devices 
 Dongyu Liu (George Mason University, US), Eric Setton (Stanford University, US), Bo Shen (HP Labs, US), Songqing Chen (George Mason University, US)


Multidimensional Transcoding for Adaptive Video Streaming 
 Jens Brandt, Lars Wolf (TU Braunschweig, IBR, DE)


Optimal Partitioning of Fine-Grained Scalable Video Streams 
 Mohamed Hefeeda, Cheng-Hsin Hsu (Simon Fraser University, CA)


7:00 NOSSDAV Social Events

June 5, 2007

9:00-10:30 *Session 4 - IPTV*
Chair : Indranil Gupta


When is P2P technology beneficial to IPTV services? 
 Yennun Huang (AT&T Laboratories Research, US), Zhen Xiao (IBM Research, US), Yih-Farn Chen (AT&T Labs - Research, US), Rittwik Jana (AT&T Labs Research, US), Michael Rabinovich (Case Western Reserve University, US), Bin Wei (AT&T Labs - Research, US)


Performance evaluation of P2P VoIP application 
 Rodrigo Barbosa (Federal University of Pernambuco, BR), Carlos Kamienski (University of the ABC, BR), Denio Mariz (CEFET-PB, BR), Arthur Callado (Federal University of Pernambuco, BR), Stenio Fernandes (CEFET-AL, BR), Djamel Sadok (Federal University of Pernambuco, BR)





Measuring P2P IPTV Systems 
 Thomas Silverston, Olivier Fourmaux (University Pierre et Marie Curie, FR)

10:30- Break

10:45

10:45- Panel 

12:15 **Topic: Large Scale Peer-to-Peer Streaming & IPTV Technologies** 
Panelists:


<ul style="list-style-type: none"> • Aaron Colwell (RealNetworks) • Sugih Jamin (University of Michigan) • Jin Li (Microsoft Research) • Klara Nahrstedt (UIUC) 	Presentation    
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Moderator: Reza Rejaie

12:15- Lunch Break

1:30

1:30-3:00 *Session 5 - Measurement*
Chair : Matthias Hollick

Evaluating SIP Proxy Server Performance 
 Erich Nahum (IBM Research, US), John Tracey (IBM, US), Charles Wright (IBM Research, US)

Characterising User Interactivity for Sports Video-on-Demand 
 Andrew Brampton, Andrew MacQuire, Idris Rai, Nicholas Race, Laurent Mathy

(Lancaster University, UK), Michael Fry (The University of Sydney, AU)

Scalable Application-Specific Measurement Framework For High-performance Network Video



Congxiao Bao, Xing Li, Jlnpeng Jiang (Tsinghua University, CN)

3:00- Break

3:15

3:15-

Session 6 - Mobility & Middleware



4:45

Chair : Surendar Chandra

Location and Mobility in a Sensor Network of Mobile Phones

Aman Kansal, Feng Zhao (Microsoft Research, US)



QoS Adaptation for Realizing Interaction between Virtual and Real Worlds in Pervasive Network Environment



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)

A Middleware for Implementation and Evaluation of Application Layer Multicast Protocols in Real Environments



Kazushi Ikeda, Thilmee Baduge, Takaaki Umedu, Hirozumi Yamaguchi, Teruo Higashino (Osaka University, JP)