



# Multimedia Systems Conference

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## MMSys 2012 Program

Wednesday, February 22, 2012

8:00 - 8:30 Continental Breakfast, Sitterson Hall

8:30 - 8:45 Introduction (15min)

8:45 - 10:15 Session: Quality for HTTP Streaming (90min)

*Session Chair: Roger Zimmerman (National University of Singapore, Singapore)*

[Shaping HTTP adaptive streams for a better user experience](#) (30min, [paper in ACM DL](#))

[QDASH: A QoE-aware DASH system](#) (30min, [paper in ACM DL](#))

[Graph-Based Combinations of Fragment Descriptors for Improved 3D Object Retrieval](#) (15min, [paper in ACM DL](#))

[Towards the Understanding of Human Perceptual Quality in Tele-immersive Shared Activity](#) (15min, [paper in ACM DL](#))

10:15 - 10:30 Break

10:30 - 11:30 Session: Keynote 1 (60min)

*Session Chair: Carsten Griwodz (Simula Research Laboratory and University of Oslo)*

[Automating Large-Scale Multimedia Exploration for Smarter Planet Applications](#) (slides)

11:30 - 11:45 Break

11:45 - 12:30 Session: Signal Processing (45min)

*Session Chair: Christian Timmerer (Alpen-Adria-Universität Klagenfurt)*

[Spatio-Temporal Video Copy Detection](#) (30min, [paper in ACM DL](#))

[A New Signal Processing Method for Video](#) (15min, [paper in ACM DL](#))

12:30 - 14:00 Lunch Break

14:00 - 15:15 Session: Emerging Topics (75min)

*Session Chair: Surendar Chandra (FXPal, CA, USA)*

[Multi-Video Summary and Skim Generation of Sensor-rich Videos in Geo-Space](#) (30min, [paper in ACM DL](#))

[Scheduler Support for Video-oriented Multimedia on Client-side Virtualization](#) (30min, [paper in ACM DL](#))

[P2P Streaming: a Study on the Use of Advertisements as Incentives](#) (15min, [paper in ACM DL](#))

15:15 - 15:30 Break

15:30 - 16:15 Session: Datasets (45min)

*Session Chair: Zixia Huang (University of Illinois at Urbana-Champaign)*

[6DMG: A New 6D Motion Gesture Database](#) (15min, [paper in ACM DL](#))

[Dynamic Adaptive Streaming over HTTP Dataset](#) (15min, [paper in ACM DL](#))

[Network Traffic from Anarchy Online: Analysis, Statistics and Applications](#) (15min, [paper in ACM DL](#))

16:15 - open end Session: Demos and posters

*Session Chair: HalŠkon K. Stensland (University of Oslo)*

[NextSharePC: An Open-Source BitTorrent-based P2P Client Supporting SVC](#) (paper in ACM DL)

[synchronous MediaSharing: Social and Communal Media Consumption for Geographically Dispersed Users](#) (paper in ACM DL)

[Collaborative Video Playback on a Federation of Tiled Mobile Projectors enabled by Visual Feedback](#) (paper in ACM DL)

## Thursday, February 23, 2012

8:00 - 8:30 Continental Breakfast, Sitterson Hall

8:30 - 10:00 Session: Supporting 3D Content (90min)

*Session Chair: Michael Zink (University of Massachusetts at Amherst)*

[The n-Dimensional Display Interface: A More Elastic Narrow Waist for the Display Pipeline](#) (30min, paper in ACM DL)

[Copy Detection of 3D Videos](#) (30min, paper in ACM DL)

[Adaptive 3D Texture Streaming in M3G-based Mobile Games](#) (15min, paper in ACM DL)

[Quality Selection for Dynamic Adaptive Streaming over HTTP with Scalable Video Coding](#) (15min, paper in ACM DL)

10:00 - 10:15 Break

10:15 - 11:15 Session: Keynote 2 (60min)

*Session Chair: Mark Claypool (Worcester Polytechnic Institute)*

[Content Delivery Considerations for Different Types of Internet Video](#) (slides)

11:15 - 11:30 Break

11:30 - 12:15 Session: Adapting to Mobility (part 1, 45min)

*Session Chair: Andreas Petlund (University of Oslo)*

[Receiver Driven Rate Adaptation](#) (30min, paper in ACM DL)

[Adaptive Scalable Video Streaming in Wireless Networks](#) (15min, paper in ACM DL)

12:15 - 13:30 Lunch Break

13:30 - 14:15 Session: Adapting to Mobility (part 2, 45min)

*Session Chair: Andreas Petlund (University of Oslo)*

[Mobile JND: Environment Adapted Perceptual Model and Mobile Video Quality Enhancement](#) (30min, paper in ACM DL)

[Collaborative Caching for Efficient Dissemination of Personalized Video Streams in Resource Constrained Environments](#) (15min, paper in ACM DL)

14:15 - 14:30 Break

14:30 - 16:15 Session: Adapting to Infrastructures (105min)

*Session Chair: Gwendal Simon (Telecom Bretagne)*

[AngelCast: Cloud-based Peer-Assisted Live Streaming Using Optimized Multi-Tree Construction.](#) (30min, paper in ACM DL)

[A Longitudinal View of HTTP Video Streaming Performance](#) (30min, paper in ACM DL)

[Experimental Study of Video Uploading from Mobile Devices with HTTP Streaming](#) (30min, paper in ACM DL)

[Synchronized Delivery of Multimedia Content over Uncoordinated Broadcast Broadband Networks](#) (15min, paper in ACM DL)

16:15 - Visit to Ackland Museum

followed by Reception

Friday, February 24, 2012

8:00 - 8:30 Continental Breakfast, Sitterson Hall

8:30 - 8:35 Introduction

8:35 - 10:15 Session: Quality Assessment and Application (100 min)

[ViMSSIM: From Image to Video Quality Assessment](#) (25min, [paper in ACM DL](#))

[Quantitative and Qualitative Assessment of QoE for Multimedia Services in Wireless Environment](#) (25min, [paper in ACM DL](#))

[SeamCrop: Changing the Size and Aspect Ratio of Videos](#) (25min, [paper in ACM DL](#))

[A New Smartphone Lane Detection System: Realizing True Potential of Multi-core Mobile Devices](#) (25min, [paper in ACM DL](#))

10:15 - 10:30 Break

10:30 - 11:30 Session: MoVid Keynote (60min)

[Challenges Leveraging the Burgeoning Power of Mobile Multimedia Architectures for Innovative Commercial Multimedia Applications](#)

11:30 - 11:45 Break

11:45 - 12:45 Session: MoVid Panel Discussion (60min)

12:30 - 14:30 Lunch Break

14:30 - 16:10 Session: Multimedia Transport (100 min)

[A Comparison of Quality Scheduling in Commercial Adaptive HTTP Streaming Solutions on a 3G Network](#) (25min, [paper in ACM DL](#))

[Video Streaming over Cognitive Radio Networks](#) (25min, [paper in ACM DL](#))

[An Evaluation of Dynamic Adaptive Streaming over HTTP in Vehicular Environments](#) (25min, [paper in ACM DL](#))

[Multicasting of Multiview 3D Videos over Wireless Networks](#) (25min, [paper in ACM DL](#))

16:10 - 16:15 Conclusion

