## ACM Multimedia 2004

October 10-16, New York, NY USA

#### **ACM Multimedia 2004**

<u>Conference Poster</u> <u>Conference Committee</u> <u>Technical Program Committee</u>

Submission Information

- Papers
- Panels
- Short papers
- <u>Tutorials</u>
- Brave New Topics
- <u>Technical Demonstrations</u>
- Interactive Art Program
- Video Demonstrations
- Workshops
- Doctoral Symposium
- Open Source Software Competition

Camera Ready Submission Instruction
Final Program
Registration
Travel, Visa, and Local Information
Student Volunteer and Travel Grant

Student Volunteer and Travel Grant Related Events

### Corporate Support

MM Conferences MM 2003 MM 2002 MM 2001 MM 2000

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## FINAL PROGRAM

The main technical program is as follows. Workshops and tutorials schedules are listed separately.

The <u>conference brochure</u>, <u>map</u>, <u>information</u>, and <u>schedule</u> brochures are now available.

### Tuesday, October 12, 2004

8:30 - Opening Plenary & Keynote
10:00 A New Relevance for Multimedia
When We Record Everything
Personal

Gordon Bell (Microsoft Research) Bio: Gordon Bell is a senior researcher at Microsoft Research. Gordon earned the moniker "father of the minicomputer" while serving as vice president of research and development for Digital Equipment Corporation, where he was responsible for the first mini and time-sharing computers and led the development of DEC's VAX. Gordon has been a professor at Carnegie Mellon, served as the first head of the NSF Computing Directorate, led the National Research Network panel that became the NII/GII, and is the author of books on computer technology and startups. He is a member of various professional organizations, including the National Academy of Engineering and the American Academy of Arts and Sciences, and received the 1991 National Medal of Technology. Gordon was instrumental in founding the Computer History Museum, and is digitizing his own history as part of the MyLifeBits project.

10:30 - Technical Session 1: Content-



Incremental Semi-Supervised Subspace Learning for Image Retrieval X. He (The Unversity of Chicago) Manifold-Ranking Based Image Retrieval J. He (Tsinghua University), M. Li, H.-J. Zhang (Microsoft Research Asia), H. Tong, C. Zhang (Tsinghua University) Learning an Image Manifold for Retrieval X. He (University of Chicago), W.-Y. Ma, H.-J. Zhang (Microsoft Research A Novel Log-based Relevance Feedback Technique in Contentbased Image Retrieval C.-H. Hoi, M. R. Lyu (The Chinese

University of Hong Kong)

10:30 - Technical Session 2: Networked
12:30 Multimedia Applications
Session Chair: Yong Rui
Automatic Replay Generation for
Soccer Video Broadcasting
J. Wang (Nanyang Technological

Soccer Video Broadcasting
J. Wang (Nanyang Technological
University and Institute for
Infocomm Research), C. Xu
(Institute for Infocomm Research),
E. Chng (Nanyang Technological
University), K. Wan, Q. Tian
(Institute for Infocomm Research)
Networked Multimedia Event
Exploration

P. Appan, H. Sundaram (Arizona State University) Privacy Protecting a Collection in Media Spaces

J. Wickramasuriya, M. t, S. Mehrotra, N. Venkatasubramanian (University of California at Irvine) An Adaptive Skin Model and Its Application to Objectionable Image Filtering

Q. Zhu, C.-T. Wu, K.-T. Cheng (University of California at Santa Barbara), Y.-L. Wu (VIMA Technologies Inc.)

10:30 - Art Session 1: Augmented and
 12:30 Virtual Spaces for Creative Learning,
 Collaboration and Play
 Session Chair: Pamela Jennings

Living-room, Interactive, Space-Oriented Augmented Reality R. Galantay, J. Torpus, M. Engeli (University of Art + Design Bassel) Scenographies of the Past and



Interactive Narrative Spaces
F. Sparacino (Sensing Places)
New Ways of Worldmaking: the
Alterne Platform for VR Art
M. Cavazza, J.-L. Lugrin, S. Hartley,
P. Libardi, M. J. Barnes, M. Le Bras
(University of Teesside), M. Le
Renard (CLARTE), L. Bec (CYPRES),
A. Nandi (Commediastra)

10:30 - **Brave New Topics - Session 1**: 12:00 <u>Multimedia Service Composition:</u>

Session Chair: Wolf-Tilo Balke and Klara Nahrstedt

A Taxonomy for Multimedia Service Composition

K. Nahrstedt (University of Illinois at Urbana-Champaign), W.-T. Balke (University of California at Berkeley) Towards an Integrated Multimedia Service Hosting Overlay
D. Xu, X. Jiang (Purdue University) Web Services Selection for Distributed Composition of Multimedia Content
M. Wagner, W. Kellerer (DoCoMo Communications Laboratories Europe)
Support for Service Composition in

K. Lakshminarayanan, I. Stoica (University of California at Berkeley), K. Wehrle (University of Tübingen)

14:00 - **Technical Session 3** : Audio 15:30 Processing

Session Chair: Hari Sundaram
Content-based Music Structure
Analysis with Applications
to Music Semantics Understanding
N. C. Maddage (Institute for
Infocomm Research and National
University of Singapore), C. Xu
(Institute for Infocomm), M. S.
Kankanhalli (National University of
Singapore), X. Shao (Institute for
Infocomm Research and National
University of Singapore)
Real-time Backround Music
Monitoring Based on Content-based
Retrieval

Y. Suga, N. Kosugi, M. Morimoto (NTT Corporation)

Searching Notated Polyphonic Music Using Transportation Distances
R. Typke, R. C. Veltkamp, F. Wiering (Utrecht University)

14:00 - **Technical Session 4**: Multimedia 15:30 Streaming



Application-Specific Path Switching:
A Case Study for Streaming Video
S. Tao, R. Guérin (University of
Pennsylvania)
A Framework for Robust and
Scalable Audio Streaming
Y. Wang, W. Huang, J. Korhonen
(National University of Singapore)
Loss-resilient On-demand Media
Streaming Using Priority Encoding
C. Huang, R. Janakiraman, L. Xu
(Washington University in St. Louis)

14:00 - Technical and Art
15:30 demonstrations Session 1
Session Chair: Michael Vernick
An Approach to Interactive Media
System for Mobile Devices

E.-S. Ryu, C. Yoo (Korea University)
Range Multicast Routers for LargeScale Deployment of Multimedia
Application

Application N. Jiang, Y. H. Ho, K. A. Hua (University of Central Florida) Exploiting Content-Based Networking for Video Streaming V. S. W. Eide (Simula Research Laboratory and University of Oslo), Eliassen (Simula Research Laboratory), J. A. Michaelsen (University of Oslo) DiMaS: Distributing Multimedia on Peer-to-Peer File Sharing Networks T. Reti, R. Sarvas (Helsinki Institute for Information Technology) Demonstrating a Video and Audio Web

C. Parker, A. Pang, S. Pfeiffer (CSIRO-ICT Centre)
Interactive Tele-Journalism: Low
Cost, Live, Interactive
Television News Production
S. Van Every (New York University)
P-Karaoke: Personalized Karaoke
System

X.-S. Hua, L. Lu, H.-J. Zhang
(Microsoft Research Asia)

Demonstration of Adjusting Forward

Error Correction with Quality Scaling
for TCP-Friendly Streaming MPEG
H. Wu, M. Claypool, R. Kinicki
(Worcester Polytechnic Institute)

A Web Based Multi-display

Presentation System
F. Zhao, Q. Liu (FX Palo Alto
Laboratory)

Generic Support for Personalized

Mobile Multimedia Tourist

Applications

1 Schorn (Oldonhura Docoarch and



N.A.G. (Network Auralization for Gnutella)

J. Freeman (Columbia University)
Bio-Fi: Inverse Biotelemetry Projects
D. Easterly (Syracuse University)
LEMUR: Robotic Musical Instruments
E. Singer, J. Feddersen (LEMUR)
Userradio

A. Black (Media Arts and Technology Program)

14:00 - Brave New Topics - Session 2:

15:30 From Context to Content:
Leveraging Contextual Metadata to
Infer Multimedia Content

**Session Chair: Marc Davis** 

From Context to Content: Leveraging Context to Infer Media Metadata

M. Davis, S. King, N. Good (University of California at Berkeley), R. Sarvas (Helsinki Institute for Information Technology)

Context a in Geo-Referenced Digital Photo Collections

M. Naaman, S. Harada, Q. Wang, H. Garcia-Molina, A. Paepcke (Stanford University)

Context for Semantic Metadata K. Haase (beingmeta, inc. and Media Lab Europe)

16:00 - **Technical Session 5**: Student Best 17:30 Paper Contest

Session Chair: Shih-Fu Chang LyricAlly: Automatic Synchronization of Acoustic Musical Signals and Textual Lyrics

Y. Wang, M.-Y. Kan, T. L. Nwe, A. Shenoy, J. Yin (National University of Singapore)

Predictive Perceptual Compression for Real Time Video Communication O. Komogortsev, J. Khan (Kent State University)

Proportional Service Differentiation in Wireless LANs Using Spacingbased Channel Occupancy Regulation

Q. Xue, A. Ganz (University of Massachusetts)

19:00 - Technical Poster Session and
 21:00 Reception
 Session Chairs: Svetha
 Venkatesh and Brian Bailey

Multimedia Analysis, Processing, & Retrieval

MPEG-4 Based Real time Shadows



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