



## ACM Multimedia 2002

### Technical Program Schedule

*This is a preliminary version*

The Technical Program will take place from Tuesday, December 3rd, 2002 to Thursday, December 5th, 2002.

#### Overview

##### Tuesday 3 December

8:30-9:00	<b>Opening Plenary Session</b>
9:00-10:00	<b>Session 1 : Multimedia Networking</b>
10:00-10:30	<i>Coffee Break</i>
10:30-12:00	<b>Session 2 : Streaming</b> <b>Session 3 : Interfacing Stored Media I</b>
12:00-13:30	<i>Lunch Break</i>
13:00-18:00	<b>Demonstration Session 1</b>
13:30-15:30	<b>Session 4 : Video Processing and Transformation</b> <b>Session 5 : Novel Interaction</b>
15:30-16:00	<i>Coffee Break</i>
16:00-17:30	<b>Session 6 : Student Best Paper Contest</b>
18:00-20:00	<b>Poster Session and Reception</b>

##### Wednesday 4 December

9:00-10:00 **Keynote**  
10:00-10:30 *Coffee Break*  
10:30-12:00 **Session 7 : Content Watermarking**  
**Session 8 : Systems Support for Multimedia**  
12:00-13:30 *Lunch Break*  
13:00-18:00 **Demonstration Session 2**  
13:30-15:30 **Session 9 : Image Indexing and Retrieval**  
**Session 10 : Meeting Support**  
15:30-16:00 *Coffee Break*  
16:00-18:00 **Session 11 : Multimedia Analysis and Retrieval**  
**Session 12 : Interfacing Stored Media II**  
20:00-22:00 Banquet

### Thursday 5 December

9:00-10:00 **Panel Session**  
10:00-10:30 *Coffee Break*  
10:30-12:00 **Session 13 : Audio Processing and Retrieval**  
**Session 14 : Middleware Support for Multimedia**  
12:00-13:30 *Lunch Break*  
13:30-15:30 **Doctoral Symposium – Session I**  
15:30-16:00 *Coffee Break*  
16:00-17:30 **Doctoral Symposium – Session II**

## Detailed Program

### Tuesday 3 December

8:30-9:00 Opening Plenary Session  
9:00-10:00 Session 1 : Multimedia Networking  
**An MPEG Performance Model And Its Application To Adaptive Forward Error Correction**  
*Ketan Mayer-Patel, Long Le, Georg Carle*  
**Multi-party Distributed Audio Service with TCP-fairness**

Milena Radenkovic, Chris Greenhalg

10:00-10:30

*Coffee Break*

10:30-12:00

Session 2 : Streaming

**A Personalized Advertisement-Duration Control for Streaming Delivery**

*Takashi Oshiba, Yuichi Koike, Masahiro Tabuchi, Tomonari Kamba*

**Interaction with Broadcast Video**

*Mounir Tantaoui, Kien Hua, Simon Sheu*

**Optimizing Hypervideo Navigation using a Markov Decision Process Approach**

*Romulus Grigoras, Vincent Charvillat, Matthijs Douze*

Session 3 : Interfacing Stored Media I

**In-Home Access to Multimedia Content**

*Dario Teixeira, Yassine Faihe*

**Cross-Media Correlation: A Case Study of Navigated Hypermedia Documents**

*Wei-Ta Chu, Heng-Yow Chen*

**IRW: An Incremental Representation for Image-Based Walkthroughs**

*David Gotz, Ketan Mayer-Patel, Dinesh Manocha*

12:00-13:30

*Lunch Break*

13:00-18:00

Demonstration Session 1

*The session will run from 13:00 to 18:00. Presenters are required to be present during breaks, and incited to be present during technical sessions.*

**Low cost, highly available, high performance talks-on-demand system**

*Francisco Jose Suarez Alonso, X.X.Garcia, V.G.Garcia*

**ClassMiner: Mining medical video for scalable skimming and summarization**

*Xingquan Zhu, Jianping Fan, Ahmed K.Elmagarmid*

**MyPhotos – A system for home photo management and processing**

*Yanfeng Sun, Hongjiang Zhang, Lei Zhang, Mingjing Li*

**Generating TV Summaries for CE Devices**

*Gerhard Mekenkamp, Mauro Barbieri, Benoit Huet, Itheri Yahiaoui, Bernard Merialdo,*

*Riccardo Leonardi, Michael Rose*

**Demonstration of an MPEG-7 Multimedia Data Cartridge**

*Mario Döller, Harald Kosch, Bernhard Dörflinger, Alexander Bachlechner, Gisela Blashke*

**Constant bit rate streaming for OpenDivX files**

*Aitor Echavarren Otin, JesusVilladangos Alonso, Eduardo Zariquiegui Aldave*

**SmartAlbum – A multi-modal photo annotation system**

*Tele Tan, Jiayi Chen, Philippe Mulhem, Mohan Kankanhalli*

**A scrambling method based on disturbance of motion vector**

*Yann Bodo, Nathalie Laurent, Jean-Luc Dugelay*

**A Technical Demonstration of Lola, the Robot Entertainer**

*Andreas Marpaung, Sarah Brown, Christine L. Lisetti*

**Clear Face Analysis from MPEG Compressed Video**

*Ling-Yu Duang, Qi Tian*

13:30-15:30

Session 4 : Video Processing and Transformation

**Tile Boundary Artifact Reduction Algorithms for Tile Size Conversion of Wavelet**

**Image**

*Masayuki Hashimoto, Kenji Matsuo, Atsushi Koike, Yasuyuki Nakajima*

**Detection and Removal of Lighting & Shaking Artifacts in Home Videos**

*Weiqi Yan, Mohan Kankanhalli*

**Painting with Looks: Photographic Images from Video using Quantimetric Processing**

*Steve Mann, Corey Manders, James Fung*

**Rate Adaptation Transcoding for Precoded Video Streams**

*Zhijun Lei, Nicolas Georganas*

**Session 5 : Novel Interaction**

**A Teaching System of Japanese Sign Language Using Sign Language Recognition and Generation**

*Hirohiko Sagawa, Masaru Takeuchi*

**Experiences in the Design of the Well, a Group Communication Device for Teleconviviality**

*Nicolas Roussel*

**Tangible Viewpoints: A Physical Approach to Multimedia Stories**

*Ali Mazalek, Glorianna Davenport, Hiroshi Ishii*

**MAUI: A Multimodal Affective User Interface**

*Christine Lisetti, Fatma Nasoz*

15:30-16:00

*Coffee Break*

16:00-17:30

**Session 6 : Student Best Paper Contest**

**PicToon: A Personalized Image-based Cartoon System**

*Hong Chen, Nan-Ning Zheng, Lin Liang, Yan Li, Yingqing Xu, Heung-Yeung Shum*

**Pixie: A Jukebox Architecture to Support Efficient Peer Content Exchange**

*Sami Rollins, Kevin Almeroth*

**A Utility Framework for the Automatic Generation of Audio-Visual Skims**

*Hari Sundaram, Lexing Xie, Shih-Fu Chang*

18:00-20:00

**Poster Session and Reception**

**Towards Universal Access to Content using MPEG-7**

*Jose M. Martinez, Jaime de Ramon, Clara Garcia, Oscar Fernandez, Cesar Gonzalez*

**Authoring 744: first results**

*Jose M. Martinez, Luis F. Rubio, Francisco Moran*

**A Set of Metrics for Evaluation of News-on-Demand Systems**

*Jose Ramon Arias, Francisco Jose Suarez, Daniel Fernando Garcia, Xixu Xabiel Garcia, Victor Guillermo Garcia*

**Multicast Streaming of Hierarchical MPEG-4 Presentations**

*Vincent Roca, Christoph Neumann*

**Task-oriented non-linear method for interactive hypervideo media editing systems**

*Vladimir Portnykh*

**A Real-time E-learning System Via Satellite Based on JMF and Windows Media**

*Juan C. Guerri, Carlos E. Palau, Ana Pajares, Manuel Esteve*

**Semantic Transcoding for Live Video Server**

*Rita Cucchiara, Costantino Grana, Andrea Prati*

**Lightweight Streaming Protocol (LSP)**

*Emir Mulabegovic, Dan Schonfeld, Rashid Ansari*

**Virtual IO: Preemptible Disk Access**

*Zoran Dimitrijevic, Raju Rangaswami, Edward Chang*

**MyLifeBits: Fulfilling the Memex Vision**

*Jim Gemmell, Gordon Bell, Roger Lueder, Steven Drucker, Curtis Wong*

**Performance visualization -- a new challenge to music through visualization**

*Rumi Hiraga, Reiko Miyazaki, Issei Fujishiro*

**A Framework for Video Scene Boundary Detection**

*Jihua Wang, Tat-Seng Chua*

**Scalable Media Streaming in Large Peer-to-Peer Networks**

*Duc Tran, Kien Hua, Tai Do*

**SIRSALE: a Large Scale Video Indexing and Content-Based Retrieving System**

*Ahmed Mostefaoui, Loic Favory, Lionel Brunie*

**Mining Video Editing Rules in Video Streams**

*Yuya Matsuo, Miki Amano, Kuniaki Uehara*

**A Synchronization method for Real Time Surround Display using Clustered Systems**

*Jeong-Dan Choi, Ki-Jong Byun, Byung-Tae Jang, Chi-Jeong Hwang*

**Enabling Personalization Services on the Edge**

*Xing Xie, Huajun Zeng, Wei-Ying Ma*

**MPEG-7 Metadata Authoring Tool**

*Jeewoong Ryu, Yumi Sohn, Munchurl Kim*

**Adaptive Partitioning for Multi-Server Distributed Virtual Environments**

*Rynson Lau, Beatrice Ng, Antonio Si, Frederick Li*

**Interactive contents authoring system based on XMT and BIFS**

*Kyuheon Kim*

**Seamless Media Adaptation with Simultaneous Processing Chains**

*Darren Carlson, Andreas Schrader*

**Annotations as Multiple Perspectives of Video Content**

*Miguel Costa, Nuno Correia, Nuno Guimarães*

**An Architecture to provide adaptive, synchronized and multimodal Human Computer Interaction**

*Eric Blechschmitt, Christoph Strödecke*

**Reusable Learning Objects: a Survey of LOM-Based Repositories**

*Filip Neven, Erik Duval*

**High Level Segmentation of Instructional Videos Based on Content Density**

*Dinh Phung, Svetha Venkatesh, Chitra Dorai*

**Measuring Capacity of Streaming Media Server in Utility Data Center Environment**

*Ludmila Cherkasova, Loren Staley*

**Assessing Face and Speech Consistency for Monologue Detection in Video**

*Harriet Nock, Giridharan Iyengar, Chalapathy Neti*

**An XMT API for Generation of the MPEG-4 Scene Description**

*YeSun Joung*

**Analysis of Scene Context related with Emotional Events**

*Hang-Bong Kang*

**Event Detection in Baseball Video Using Superimposed Caption Recognition**

*Dongqing Zhang, Shih-Fu Chang*

**Multimodal Affective Driver Interfaces for Future Cars**

*Fatma Nasoz, Onur Ozyer, Christine Lisetti*

**News Video Classification Using SVM-based Multimodal Classifiers and Combination Strategies**

*Wei-Hao Lin*

**Empirical Study of User Perception Behavior for Mobile Streaming**

*Seungho Song, Youjip Won*

**Leveraging Non-Relevant Images To Enhance Image Retrieval Performance**

*Ashwin T. V., Rahul Gupta, Sugata Ghosal*

**Multi-Layer Recording as a New Concept of Combining Lecture Recording and Students™ Handwritten Notes**

*Jochen Lienhard, Tobias Lauer*

**Application of Computational Media Aesthetics Methodology to Extracting Color Semantics in Film**

*Ba Tu Truong, Svetha Venkatesh, Chitra Dorai*

**Learning and Inferring a Semantic Space from User's Relevance Feedback for Image Retrieval**

*Xiaofei He , Wei-Ying Ma, Oliver King , Mingjing Li, Hongjiang Zhang*

**An Integrated Baseball Digest System Using Maximum Entropy Method**

*Mei Han, Wei Hua, Wei Xu, Yihong Gong*

**M-Studio: an Authoring Application for Context-aware Multimedia**

*Pengkai Pan, Carly Kastner, David Crow, Glorianna Davenport*

## Wednesday 4 December

- 9:00-10:00      **Keynote**  
**Multimedia, time to make it real**  
*Dr Leonardo Chiariglione, Vice President, Multimedia Telecom Italia Lab*
- 10:00-10:30      *Coffee Break*
- 10:30-12:00      **Session 7 : Content Watermarking**  
**Missing Data Correction in Still Images and Image Sequences**  
*Raphael Bornard, Emmanuelle Lecan, Louis Laborelli, Jean-Hugues Chenot*  
**Digital Image Watermarking for Joint Ownership**  
*Huiping Guo, Nicolas Georganas*  
**Multimedia Content Screening using a Dual Watermarking and Fingerprinting System**  
*Darko Kirovski, Henrique Malvar, Yacov Yacobi*
- Session 8 : Systems Support for Multimedia**  
**Cost-Effective Streaming Server Implementation Using Hi-Tactix**  
*Damien Le Moal, Tadashi Takeuchi, Tadaaki Bandoh*  
**A Case for a Multi-key Secure Video Proxy: Theory, Design and Implementation**  
*Siu Fung Yeung, John C. S. Lui, David K. Y. Yau*  
**Cooperative Run-time Management of Adaptive Applications and Distributed Resources**  
*Christian Poellabauer, Hasan Abbasi, Karsten Schwan*
- 12:00-13:30      *Lunch Break*
- 13:00-18:00      **Demonstration Session 2**  
*The session will run from 13:00 to 18:00. Presenters are required to be present during breaks, and incited to be present during technical sessions.*  
**MyVideos – A system for home video management**  
*Yijin Wang, Peng Zhao, Dong Zhang, Mingjing Li, Hongjiang Zhang*  
**Online Face Analysis : Coupling Head Pose-Tracking with Face Expression Analysis**

*Ana C.Andres del Valle, Jean-Luc Dugelay*

**Semantic Exploration of Lecture Videos**

*Edward Altman, Yu Chen,Wai Chong Low*

**LectureLounge – experience education beyond the borders of the classroom**

*Arnd Steinmetz*

**A unified framework for semantic shot classification in sports video**

*Ling-Yu Duang, Min Xu, Xiao Dong Yu, Qi Tian*

**PBIR-MM: A multimodal Image Retrieval System**

*Wei-Cheng Lai, Edward Chang, Kwang-Ting Cheng, Ching-Tung Wu*

**Duplicate detection in consumer photography and news video**

*Alejandro Jaimés, Shih-Fu Chang, Alexander C.Loui*

**Progressive Proxy-Based Multimedia Transcoding System with Maximum Data Reuse**

*Chi Chi Hung, Yang Cao*

**A multimodal speaker detection and tracking system for teleconferencing**

*Billibon H.Yoshimi, Gopal S.Pingali*

**Comprehensive Treatment of Adaptation in Distributed Multimedia Systems in the ADMITS Project**

*László Böszörményi, Mario Döller, Hermann Hellwagner, Harald Kosch*

**iFinder: An MPEG-7-based Retrieval System for Distributed Multimedia Content**

*Jobst Löffler, Konstantin Biatov, Christian Eckes, Joachim Köhler*

13:30-15:30

Session 9 : Image Indexing and Retrieval

**Learning-based Linguistic Indexing of Pictures with 2-D MHMMs**

*James Wang, Jia Li*

**On the Choice of Similarity Measures for Image Retrieval By Example**

*Jean-Philippe Tarel, Sabri Boughorbel*

**An Effective Region-Based Image Retrieval Framework**

*Feng Jing, Mingjing Li, Hong-Jiang Zhang, Bo Zhang*

**DynDex: A Dynamic & Non-metric Space Indexer**

*Kingshy Goh, Beita Li, Edward Chang*

Session 10 : Meeting Support

**Achieving Effective Floor Control with a Low-Bandwidth Gesture-Sensitive Videoconferencing System**

*Milton Chen*

**FLYSPEC: A Multi-User Video Camera System with Hybrid Human and Automatic Control**

*Qiong Liu, Don Kimber, Jonathan Foote, Lynn Wilcox, John Borezcky*

**Portable Meeting Recorder**

*Dar-Shyang Lee, Berna Erol, Jamey Graham, Jonathan Hull, Norihiko Murata*

**Distributed Meetings: A Meeting Capture and Broadcasting System**

*Ross Cutler, Yong Rui, Anoop Gupta, JJ Cadiz, Ivan Tashev, Li-Wei He, Alex Colburn, Zhengyou Zhang, Zicheng Liu, Steve Silverberg*

15:30-16:00

*Coffee Break*

16:00-18:00

Session 11 : Multimedia Analysis and Retrieval

**Retrieving Actions Embedded in Video**

*Tanveer Syeda-Mahmood*

**Multiple Video Object Tracking in Complex Scenes**

*Andrea Cavallaro, Olivier Steiger, Touradj Ebrahimi*

**A User Attention Model for Video Summarization**

*Yu-Fei Ma, Lie Lu, Hong-Jiang Zhang, Mingjing Li*

**VQ-Index: An Index Structure for Similarity Searching in Multimedia Databases**

*Ertem Tuncel, Hakan Ferhatosmanoglu, Kenneth Rose*

Session 12 : Interfacing Stored Media II

**Creating Music Videos using Automatic Media Analysis**

*Jonathan Foote, Matt Cooper, Andreas Girgensohn*

**Collages as Dynamic Summaries for News Video**

*Michael Christel, Alexander Hauptmann, Howard Wactlar, Tobun Ng*

**Content-based Organization and Visualization of Music Archives**

*Elias Pampalk, Andreas Rauber, Dieter Merkl*

20:00-22:00

Banquet

*Announcement for best paper and best student paper awards*

## Thursday 5 December

9:00-10:00

Panel Session

**Media Semantics: Who Needs It and Why?**

*Organizers: Chitra Dorai and Frank Nack*

*Andreas Mauthe, Lloyd Rutledge, Thomas Sikora, Gwendal Auffret*

10:00-10:30

*Coffee Break*

10:30-12:00

Session 13 : Audio Processing and Retrieval

**Efficient Acoustic Index for Music Retrieval with various Degrees of Similarity**

*Cheng Yang*

**Embedded Audio Coding (EAC) With Implicit Auditory Masking**

*Jin Li*

**Speaker Change Detection and Tracking in Real-Time News Broadcasting Analysis**

*Lie Lu, Hong-Jiang Zhang*

Session 14 : Middleware Support for Multimedia

**Experiences with Building Middleware for Audio and Visual Networked Home**

**Appliances on Commodity Software**

*Tatsuo Nakajima*

**A Pluggable Service-to-Service Communication Mechanism for Home Multimedia Networks**

*Jin Nakazawa, Hideyuki Tokuda*

**A Programming Framework for Quality-Aware Ubiquitous Multimedia Applications**

*Duangdao Wichadakul, Xiaohui Gu, Klara Nahrstedt*

12:00-13:30

*Lunch Break*

13:30-15:30

Doctoral Symposium – Session I

**A dynamic controller for optimal layering of video**

*Aruna Thaku, University Dep. of CS and EE, Lulea Univ of Tech., Sweden*



**Content adaptation of multimedia delivery and indexing using MPEG-7**  
*Mulugeta Libsie, University Dep. of Information Tech., Univ Klagenfurt, Austria*

15:30-16:00 *Coffee Break*

16:00-17:30 Doctoral Symposium – Session II

**Complexity management for video encoders**

*Yafan Zhao, University School of Eng, The Robert Gordon Univ, Aberdeen, UK*

**Video telephony for the deaf: analysis & development of an optimised video compression product**

*Laura J Muir, University School of Eng, The Robert Gordon Univ, Aberdeen, UK*

**An architecture for policy-based security management for distributed multimedia services**

*Sandrine Duflos, University LIP6, Paris, France*

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*This page was last modified on October 22, 2002.*