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

**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
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<td>10:00-10:30</td>
<td>Coffee Break</td>
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<td>10:30-12:00</td>
<td><strong>Session 2 : Streaming</strong></td>
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<td><em>A Personalized Advertisement-Duration Control for Streaming Delivery</em></td>
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<td><em>Takashi Oshiba, Yuichi Koike, Masahiro Tabuchi, Tomonari Kamba</em></td>
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<td><em>Interaction with Broadcast Video</em></td>
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<td><em>Mounir Tantauoi, Kien Hua, Simon Sheu</em></td>
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<td><em>Optimizing Hypervideo Navigation using a Markov Decision Process Approach</em></td>
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<td><em>Romulus Grigoras, Vincent Charvillat, Matthijs Douze</em></td>
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<td>12:00-13:30</td>
<td>Lunch Break</td>
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<td>13:00-18:00</td>
<td><strong>Demonstration Session 1</strong></td>
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<td><em>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.</em></td>
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<td><em>Low cost, highly available, high performance talks-on-demand system</em></td>
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<td><em>Francisco Jose Suarez Alonso, X.X.Garcia, V.G.Garcia</em></td>
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<td><em>ClassMiner: Mining medical video for scalable skimming and summarization</em></td>
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<td><em>Xingquan Zhu, Jianping Fan, Ahmed K.Elmagarmid</em></td>
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<td><em>MyPhotos – A system for home photo management and processing</em></td>
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<td><em>Yanfeng Sun, Hongjiang Zhang, Lei Zhang, Mingjing Li</em></td>
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<td><em>Generating TV Summaries for CE Devices</em></td>
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<td><em>Gerhard Mekenkamp, Mauro Barbieri, Benoit Huet, Itheri Yahiaoui, Bernard Merialdo, Riccardo Leonardi, Michael Rose</em></td>
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<td><em>Demonstration of an MPEG-7 Multimedia Data Cartridge</em></td>
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<td><em>Mario Döller, Harald Kosch, Bernhard Dörflinger, Alexander Bachlechner, Gisela Blashke</em></td>
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<td><em>Constant bit rate streaming for OpenDivX files</em></td>
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<td><em>Aitor Echavarren Otin, Jesus Villadangos Alonso, Eduardo Zariquiegui Aldave</em></td>
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<td><em>SmartAlbum – A multi-modal photo annotation system</em></td>
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<td><em>Tele Tan, Jiayi Chen, Philippe Mulhem, Mohan Kankanhalli</em></td>
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<td><em>A scrambling method based on disturbance of motion vector</em></td>
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<td><em>Yann Bodo, Nathalie Laurent, Jean-Luc Dugelay</em></td>
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<td><em>A Technical Demonstration of Lola, the Robot Entertainer</em></td>
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<td><em>Andreas Marpaung, Sarah Brown, Christine L. Lisetti</em></td>
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<td><em>Clear Face Analysis from MPEG Compressed Video</em></td>
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<td><em>Ling-Yu Duang, Qi Tian</em></td>
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<td>13:30-15:30</td>
<td><strong>Session 4 : Video Processing and Transformation</strong></td>
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<td><em>Tile Boundary Artifact Reduction Algorithms for Tile Size Conversion of Wavelet Image</em></td>
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<td><em>Masayuki Hashimoto, Kenji Matsuo, Atsushi Koike, Yasuyuki Nakajima</em></td>
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<td><em>Detection and Removal of Lighting &amp; Shaking Artifacts in Home Videos</em></td>
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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. Gueri, 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 Lieder, 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, Svetla 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 Joun

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
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 Jaimes, 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 Bőszörményi, 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, Beitao 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
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<td>Coffee Break</td>
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<td>16:00-17:30</td>
<td>Doctoral Symposium – Session II</td>
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<td>Complexity management for video encoders</td>
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<td>Yafan Zhao, University School of Eng, The</td>
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<td>Robert Gordon Univ, Aberdeen, UK</td>
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<td>Video telephony for the deaf: analysis &amp;</td>
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<td>development of an optimised video</td>
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<td>Laura J Muir, University School of Eng,</td>
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<td>The Robert Gordon Univ, Aberdeen, UK</td>
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<td>An architecture for policy-based security</td>
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<td>Sandrine Duflos, University LIP6, Paris,</td>
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This page was last modified on October 22, 2002.