

# MIR 2004



6th ACM SIGMM International Workshop on Multimedia Information Retrieval

October 15-16, 2004, New York, NY USA

in conjunction with [ACM Multimedia 2004](#)



## GENERAL INFORMATION

[Call for Organizers for MIR'05](#)

Registering for only the Workshop is possible now .

*Extending beyond the borders of culture, art, and science, the search for digital information is one of the major challenges of our time. Digital libraries, bio-computing & medical science, the Internet, streaming video, databases, cultural heritage collections and peer-2-peer networks have created a worldwide need for new paradigms and techniques on how to browse, search, and summarize multimedia collections. MIR2004 is a peer-reviewed meeting for scientific researchers and users to discuss important challenges in multimedia retrieval.*

*Following the success of the five previous MIR workshops held in conjunction with the ACM Multimedia Conferences, the purpose of the 6th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2004) is to bring together researchers, developers, and practitioners from academia and industry. We are soliciting original papers that address a wide range of issues in multimedia information retrieval.*

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[Committee](#)

## Workshop Co-Chairs

- [Michael Lew](#), LIACS Media Lab, Leiden University, The Netherlands (mlew@liacs.nl)
- [Nicu Sebe](#), University of Amsterdam, The Netherlands (nicu@science.uva.nl)
- [Chabane Djeraba](#), LIFL, France (Chabane.Djeraba@lifl.fr)

## GENERAL INFORMATION

### [Call for Organizers for MIR'05](#)

*Registering for only the Workshop is possible now .*

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- [Michael Lew](#), LIACS Media Lab, Leiden University, The Netherlands ([mlew@liacs.nl](mailto:mlew@liacs.nl))
- [Nicu Sebe](#), University of Amsterdam, The Netherlands ([nicu@science.uva.nl](mailto:nicu@science.uva.nl))
- [Chabane Djeraba](#), LIFL, France ([Chabane.Djeraba@lifl.fr](mailto:Chabane.Djeraba@lifl.fr))

## MIR 2004

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October 15-16, 2004

New York, NY, USA

[www.liacs.nl/~mir](http://www.liacs.nl/~mir)

in conjunction with ACM Multimedia 2004

### IMPORTANT DATES:

July 11 (extended), 2004: Submission of full paper

August 1, 2004: Notification of acceptance

August 6, 2004: Camera-ready full paper

### OVERVIEW

Extending beyond the borders of culture, art, and science, the search for digital information is one of the major challenges of our time. Digital libraries, bio-computing & medical science, the Internet, streaming video, databases, cultural heritage collections and peer-2-peer networks have created a worldwide need for new paradigms and techniques on how to browse, search, and summarize multimedia collections. MIR2004 is a peer-reviewed meeting for scientific researchers and users to discuss important challenges in multimedia retrieval. We are soliciting high quality original papers which address important issues in multimedia information retrieval including, but not limited to:

- Learning and relevance feedback in multimedia retrieval
- Bio-computing & medical multimedia mining/indexing (MRI, CT, ...)
- Indexing and retrieval from streaming audio & video
- Summarization and visualization of multimedia
- Multi-modal human-computer interaction
- Query languages and query processing for multimedia retrieval
- User perspectives and user modeling for multimedia retrieval
- Semantic content analysis
- Intelligent agents for multimedia indexing and retrieval
- Multimedia retrieval for pervasive computing
- Preserving cultural heritage
- Multi-modal event detection and recognition
- Retrieval from multi-modal life logs
- High performance multimedia databases
- Fusion of Multimedia
- Content based retrieval of novel media
- Content-based indexing, search, and retrieval of multimedia data

### PAPER SUBMISSION

Email full papers (no longer than 8 pages in the [ACM style sheet](#) in English), to

[mir@liacs.nl](mailto:mir@liacs.nl)

with the following information:

- (1) Title of paper & short abstract summarizing the main contribution
- (2) Names and contact info of all authors, also specifying the contact author.
- (3) The paper in postscript or PDF format.

All submissions will be peer-reviewed by at least 3 members of the program committee. The workshop proceedings will be printed and appear in the ACM Digital Library.

## WORKSHOP CHAIRS

Michael Lew, LIACS Media Lab, Netherlands  
Nicu Sebe, University of Amsterdam, Netherlands  
Chabane Djeraba, LIFL, France

## PROGRAM COMMITTEE

Kiyo Aizawa, University of Tokyo, Japan  
Youssef Amghar, LIRIS, France  
Erwin Bakker, LIACS Media Lab, The Netherlands  
Xavier Binefa, University of Barcelona, Spain  
Catherine Berrut, CLIPS, France  
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Stefan Rueger, Imperial College London, UK  
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HongJiang Zhang, Microsoft Research Asia, China  
Zhongfei Zhang, Binghamton University, USA  
Xiang (Sean) Zhou, Siemens Research, USA

## Important Dates

July 11th (extended), 2004: Submission of full paper

August 1, 2004: Notification of acceptance

August 15 (see ACM Press Webpage), 2004: Camera-ready full paper

## ***Presenter Information***

All of the talks were designated by the PC Committee as either Oral or Poster Presentation. The type of talk can be found on the MIR website. The instructions for both the oral and poster presentations are given in this document.

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### **"ORAL PRESENTATION" INSTRUCTIONS:**

#### **PRESENTING YOUR PAPER**

You should be present in the room in time for your presentation, from where you will be called to the stage by the Session Chair. Your presentation should last around 18 minutes (15 minutes for the talk and 3 minutes for questions). Please remember to keep an eye on the Session Chair, who will give you a signal when the time is approaching to bring your presentation to a close. The order of the talks is given on the MIR website.

#### **EQUIPMENT**

The following equipment will be available in the room: data projector and an overhead projector. Note that an internet connection will also be provided.

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### **"POSTER PRESENTATION" INSTRUCTIONS:**

The Poster Display will take place in the the same room as the oral presentations. There will be only one Poster Session which begins at 11:05am on October 16th. Please arrange you poster before the start of the keynote address (between 8:30am and 9:10am).

#### **EXHIBITION PANELS**

We will provide tripods on which to display your poster and roughly a 2'x 3' (i.e., 24x36 inches or 60x91 cm) cardboard poster board. Each presenter will have *one* tripod/poster board on which to display his material. We recommend that authors print their material on standard pages which can then be taped or glued to the poster board. You can arrange the poster board either in portrait (2' wide by 3' tall) or landscape (3' wide by 2' tall) mode.

#### **"BOASTER SESSIONS"**

The Poster Session will be preceded by a "Boaster" Session – this will be your chance to inform your audience about the display you have provided. Presenters will be invited to the stage to speak to delegates for one minute only. You may use a single overhead transparency to illustrate your talk if you wish. The persons nominated to "boast" about your display should make their way to the side of the stage as quickly as possible at the beginning of the session, and form an orderly queue! You will then be invited to the stage, as a group, by the Session Chair.

# ***MIR04 Program***

## **DAY 1:**

**9.00 - 9.10 Opening Remarks: Michael S. Lew**

**9.10 - 10.15 Keynote address: On 3D Shape Content-based Retrieval**

Alberto del Bimbo, University of Florence, Italy

**10.15 - 10.40 Coffee**

**10.40 - 12.20 Oral Session - Learning I (Chair: Nicu Sebe)**

An User Preference Information Based Kernel for SVM Active Learning in Content-based Image Retrieval

Hua Xie, and Antonio Ortega

ResearchExplorer: Gaining Insights through Exploration in Multimedia Scientific Data

Bo Gong, Rahul Singh, and Ramesh Jain

Mean Version Space: A New Active Learning Method for Content-based Image Retrieval

Jingrui He, Mingjing Li, Hong-Jiang Zhang, Hanghang Tong, and Changshui Zhang

Retrieval of Difficult Image Classes Using SVM-Based Relevance Feedback

Marin Ferecatu, Michel Crucianu, and Nozha Boujemaa

Boosting Contextual Information in Content-based Image Retrieval

Jaume Amores, Nicu Sebe, Petia Radeva, Theo Gevers, and Arnold Smeulders

**12.20 - 13.50 Lunch**

**13.50 - 15.30 Oral Session - Video I (Chair: Alan Smeaton)**

Key-Frame Extraction Algorithm using Entropy Difference

Markos Mentzelopoulos and Alexandra Psarou

Content Based Access for a Massive Database of Human Observation Video

Laurent Joyeux, Erika Doyle, Hugh Denman, Andrew Crawford, Adrien Bousseau, Anil Kokaram, and Ray Fuller

Clip-based Similarity Measure for Hierarchical Video Retrieval

Yuxin Peng and Chong-Wah Ngo

Fast and Robust Short Video Clip Search Using an Index Structure

Junsong Yuan, Ling-Yu Duan, Qi Tian, and Changsheng Xu

Structuring Home Video by Snippet Detection and Pattern Parsing

Zailiang Pan and Chong-Wah Ngo

**15.30 - 15.50 Coffee**

**15.50 - 17.00 Multimedia Information Retrieval - New challenges (Chair: William Grosky)**

**Panelists:** Alberto del Bimbo, University of Florence, Italy

William Grosky, University of Michigan - Dearborn, USA

Ramesh Jain, Georgia Institute of Technology, USA

Wei-Ying Ma, Microsoft Research China

Bernard Merialdo, Institut Eurécom, France

Alan Smeaton, Dublin City University, Ireland

## **DAY 2:**

**9.10 - 10.15 Keynote address: The Psychology of MIR**

John R. Kender, Columbia University, USA

**10.15 - 10.40 Coffee**

**10.40 - 11.05 Boaster Session (Chair: Nicu Sebe)**

**11.05 - 12.30 Interactive Oral Sessions**

**Learning II (Interactive Oral)**

Relevance Feedback: Perceptual Learning and Retrieval in Bio-computing, Photos, and Video  
M. Haas, J. Rijsdam, B. Thomee, and M.S. Lew

A Time Series Clustering Based Framework for Multimedia Mining and Summarization Using Audio Features  
Regunathan Radhakrishnan, Ajay Divakaran, and Ziyou Xiong,

Long-Term Learning of Semantic Grouping from Relevance Feedback  
Tomohiro Yoshizawa and Haim Schweitzer,

Experimenting with Music Taste Prediction by User Profiling  
Marco Grimaldi and Padraig Cunningham

**Image II (Interactive Oral)**

Latent Semantic Analysis of Facial Action Codes for Automatic Facial Expression Recognition  
Beat Fasel, Florent Monay, and Daniel Gatica-Perez

Efficient 3D Object Retrieval Using Depth Images  
Nikhil Vajramushti, Ioannis A. Kakadiaris, Theoharis Theoharis, and G. Papaioannou

Analysing the Performance of Visual, Concept, and Text Features in Content-Based Video Retrieval  
Mika Rautiainen, Timo Ojala, and Tapio Seppänen

A Multimodal Approach to Time-Invariant Scene Retrieval from Single Overhead Image  
Jian Yao, Zhongfei Zhang, and Lijun Yin

**Video II (Interactive Oral)**

Concept-Oriented Video Skimming and Adaptation via Semantic Classification  
Hangzai Luo and Jianping Fan

Video Story Segmentation with Multi-modal Features: Experiments on TRECVID 2003  
L. Besacier, G.M. Quénot, S. Ayache, D. Moraru

Symbolic Representation and Retrieval of Moving Object Trajectories  
Lei Chen, M. Tamer Ozsu, and Vincent Oria,

A Hybrid System for Affine-Invariant Trajectory Retrieval  
Faisal I. Bashir, Ashfaq Khokhar, and Dan Schonfeld,

Latent Semantic Analysis For An Effective Region-Based Video Shot Retrieval System  
F. Souvannavong, B. Huet, and B. Merialdo

Action Movies Segmentation and Summarization Based on Tempo Analysis  
Hsuan-Wei Chen

**Application II (Interactive Oral)**

Offense Based Temporal Segmentation for Event Detection in Soccer Video  
L. Wang, M. Lew, and G. Xu



The Power of Play-Break for Automatic Detection and Browsing of Self-consumable Sport Video Highlights  
Dian Tjondronegoro, Phoebe Yi-Ping Chen, and Binh Pham

Repeating Pattern Discovery and Structure Analysis from Acoustic Music Data  
Lie Lu, Muyuan Wang, and Hong-Jiang Zhang,

Towards Automatic Analysis of Social Interaction Patterns in a Nursing Home Environment from Video  
Datong Chen, Jie Yang, and Howard D. Wactlar

Semantic Video Adaptation based on Automatic Annotation of Sport Videos  
Marco Bertini, Rita Cucchiara, Alberto Del Bimbo, and Andrea Prati

**Internet and WWW-based Systems (Interactive Oral)**

A High Performance Crawling System  
Younès Hafri and Chabane Djeraba

A Web-Enabled Video Indexing System  
Jian Zhou and Xiao-Ping Zhang

Autonomous Visual Model Building Based on Image Crawling through Internet Search Engines  
Xiaodan Song, Ching-Yung Lin, and Ming-Ting Sun

**12.30 - 13.50 Lunch**

**13.50 - 15.30 Oral Session - Applications I (Chair: Andreas Girgensohn)**

A Statistical Approach to Retrieval under User-dependent Uncertainty in Query-by-Humming Systems  
Erdem Unal, Shrikanth S. Narayanan, and Elaine Chew

The Story Picturing Engine: Finding Elite Images to Illustrate a Story Using Mutual Reinforcement  
D. Joshi, J. Z. Wang, and J. Li

The Fusion of Audio-Visual Features and External Knowledge for Event Detection in Team Sports Video  
Huaxin Xu and Tat-Seng Chua

Texture Based Medical Image Indexing and Retrieval : Application to Cardiac Imaging  
Tristan Glatard, Johan Montagnat, and Isabelle Magnin

A Query Description Model Based on Basic Semantic Unit Composite Petri-Net for Soccer Video  
Songyang Lao, Alan F. Smeaton, Gareth J. F. Jones, and Hyowon Lee,

**15.30 - 15.50 Coffee**

**15.50 - 17.30 Oral Session - Image I (Chair: Michael S. Lew)**

Retrieval of 3D Objects by Visual Similarity  
J. Assfalg, A. del Bimbo, and P. Pala

Effective Browsing of Web Image Search Results  
Hao Liu, Xing Xie, Xiaou Tang, Zhi-Wei Li, and Wei-Ying Ma

Image Recognition for Digital Libraries  
Bertrand Le Saux and Giuseppe Amato

Leveraging Face Recognition Technology to Find and Organize Photos  
Andreas Girgensohn, John Adcock, and Lynn Wilcox

A Graphical User Interface for a Fine-Art Painting Image Retrieval System  
Thomas Lombardi, Sung-Hyuk Cha, and Charles Tappert

**17.30 - 17.40 Closing Remarks: Michael S. Lew**

# Organizing Committee

## General Co-Chairs

[Michael Lew](#)

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## Program Committee

Kiyo Aizawa, University of Tokyo, Japan  
Youssef Amghar, LIRIS, France  
Erwin Bakker, LIACS Media Lab, The Netherlands  
Catherine Berrut, CLIPS, France  
Alberto Del Bimbo, University of Florence, Italy  
Xavier Binefa, University of Barcelona, Spain  
Shih-Fu Chang, Columbia University, USA  
Theo Gevers, Univ. of Amsterdam, The Netherlands  
William Grosky, University of Michigan-Dearborn, USA  
Alan Hanjalic, TU Delft, The Netherlands  
Thomas Huang, Univ. of Illinois at UC, USA  
Alex Jaimes, FujiXerox, Japan  
Joemon Jose, University of Glasgow, UK  
Brigitte Kerherve, University of Quebec, Canada  
Anil Kokaram, Trinity College, Ireland  
Wei Ying Ma, Microsoft Research, China  
Vincent Oria, New Jersey Institute of Technology, USA  
Stefan Rueger, Imperial College London, UK  
Yong Rui, Microsoft Research, USA  
Shin'ichi Satoh, National Institute of Informatics, Japan  
Claudia Schremmer, CSIRO, Australia  
Florence Sedes, IRIT, France  
Alan Smeaton, Dublin City University, Ireland  
Arnold Smeulders, Univ. of Amsterdam, The Netherlands  
John R. Smith, IBM Research, USA  
Hari Sundaram, Arizona State University, USA  
Qi Tian, University of Texas at San Antonio, USA  
Svetha Venkatesh, Curtin Univ. of Tech., Australia  
Guangyou Xu, Tsinghua University, China  
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Zhongfei Zhang, Binghamton University, USA  
Xiang (Sean) Zhou, Siemens Research, USA

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## ACM SIGMM MIR Steering Committee

Brigitte Kerhervé (Term expires at the end of MIR'2006)  
Vincent Oria (Term expires at the end of MIR'2006)  
Shin'ichi Satoh (Term expires at the end of MIR'2006)  
Mario A. Nascimento (Term expires at the end of MIR'2007)  
Noboru Babaguchi (Term expires at the end of MIR'2007)  
K Selcuk Candan (Term expires at the end of MIR'2007)  
Sibel Adali (Term expires at the end of MIR'2008)  
Yuichi Nakamura (Term expires at the end of MIR'2008)  
Uma Srinivasan (Term expires at the end of MIR'2008)  
Michael S. Lew (chair) (Term expires at the end of MIR'2008)  
Nicu Sebe (Term expires at the end of MIR'2008)  
Chabane Djeraba (Term expires at the end of MIR'2008)  
ACM SIGMM Designated Officer or representative

# Invitation for Organizing MIR'05

## Important Dates

Deadline for proposals: *October 29th, 2004*

Notification: *November 12th, 2004*

## Introduction

MIR has been evolving and growing rapidly and is already the largest dedicated ACM meeting in this research area. We expect roughly one hundred paper submissions which implies handling about 300 reviews in a relatively short period. In addition as a 2 day meeting, there is more room for special sessions and other ways to improve communication within our community. We suggest that the organizing committee be setup in a similar way as most standard conferences to handle the important tasks. In general, we are looking at prior experience of organizing scientific meetings, connection or experience with previous MIR workshops, and the visibility of the proposers in the community.

## Responsibilities, Timing and Location

MIR is typically held in conjunction with the ACM Multimedia Conference. ACM Multimedia normally handles the registrations, catering, room, and presentation facilities. The workshop organizers are responsible for the call for papers, publicity, paper selection, setting up the workshop program including special sessions, and also working with ACM Press in the editing process.

## Web site

Proposers are expected to set up, organize and maintain a web site for the conference, providing all necessary information for contributors and potential delegates.

## Program and Call for Papers

A draft program for the conference which covers the main and special sessions and a draft call for papers with tentative deadlines should be included. More detail is better in general.

## Proposal Checklist

- Names, contact info, affiliations, and relevant experience of the organizers
- Call for Papers
- Draft Program

Email proposals with subject line "MIR Proposal" to Michael Lew, *mlew@liacs.nl*

Best regards,  
ACM MIR Steering Committee