

# MIR 2008

ACM International Conference on Multimedia Information Retrieval  
October 30-31, 2008, Vancouver, Canada

colocated with ACM Multimedia



Home Page

Program

Organizing Committee

Program Committee

Important Dates

Call for Papers

ACM Style Sheet

Presenter Information

Registration

Sponsors

MIR Steering  
Committee

## Welcome to MIR2008

The ACM International Conference on Multimedia Information Retrieval is a premier scientific meeting for discussing the latest advances in the area of multimedia retrieval. All papers in the main track must be high quality original papers which address important issues in multimedia exploration, summarization and retrieval including, but not limited to:

Exploration of media archives - browsing, experiential computing  
Interfaces for multimedia exploration, visualization, query and retrieval  
Indexing and search of multimedia data: images, video, audio, multi-modal systems  
Digital life experience analysis and retrieval - life logs, digital immortality, life bits  
Video surveillance browsing and retrieval, object detection and recognition, archiving  
Learning and relevance feedback in multimedia retrieval  
Applications - world wide web searching, preserving cultural heritage, trademark search, data mining, person identification, scientific media, bio-computing and medical multimedia mining/indexing

Brave New Topics Session - emerging frontier theories and applications in MIR.

## Invited Speakers

Prof. Thomas S. Huang , University of Illinois at Urbana-Champaign

Prof. Shih-Fu Chang, Columbia University

Prof. Ramesh Jain, University of California, Irvine

Conference Poster: [View](#)

<http://press.liacs.nl/mir2008/mir08poster.pdf>

## Post Conference Summary

This year we received 308 unique full paper submissions of which 262 papers were selected by the organizing committee for the double-blind peer review process. Based upon the peer reviews of the program committee, 21 percent or 56 papers were accepted for the scientific research track including both oral and poster presentations.

The response from the scientific community was overwhelming. The initial conference seating was sold out early. With the help of Prof. El-Saddik and the Pan-Pacific Hotel, we were able to switch to a space more than double the original size; and we still had only standing room left.

First and foremost, thanks and appreciation goes to all of the organizers and community members of the previous MIR, CARPE, and VSSN related workshops for their ground breaking work and support. Research communities and conferences require strong foundations and in our case we could draw from a rich history of related activities. The support and involvement of Kiyo Aizawa, Mark Zhang, and Alberto del Bimbo contributed significantly to the international and cross-community appeal of this meeting.

We are also grateful to all of the members of the program committee and the additional reviewers. Their reviews of the submissions played a pivotal role in the quality of the conference. Moreover, Erwin Bakker and Alberto del Bimbo did an excellent job in organizing the enormous double-blind peer review and paper selection process. The paper review and decisions tasks were distributed between the program chairs to ensure no conflicts of interest. Mark Huiskes and Mark Zhang did excellent work in the critical mission of having the conference run smoothly.

Finally, we greatly appreciated the support of the ACM SIGMM through Klara Nahrstedt and Nevenka Dimitrova.

Best wishes,

Michael Lew

*on behalf of the ACM MIR2008 Organizing Committee*



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Michael Lew

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# MIR 2008 Program

ACM International Conference on Multimedia Information Retrieval  
October 30-31, 2008, Vancouver, Canada

## Day 1

9:00 – 9:05 Opening - Michael S. Lew

9:05 – 10:00 Keynote - Thomas S. Huang, University of Illinois at UC

What are the 7 Millennium Problems in Multimedia Information Retrieval?

10:00 – 10:30 Coffee

10:30 – 12:10 Brave New Topics (Chair: Mark Zhang, SUNY Binghamton)

Mining GPS Traces and Visual Words for Event Classification (Invited)

*Junsong Yuan, Jiebo Luo, Ying Wu,*

Kodak Research Laboratories

Combining Image Descriptors to Effectively Retrieve Events from Visual Lifelogs

*Aiden R. Doherty, Ciarán Ó Conaire, Michael Blighe, Alan F. Smeaton, Noel E. O'Connor,*

Dublin City University

Monitoring Visual Focus of Attention via Local Discriminant Projection

*Honggang Zhang, Lorant Toth, Weihong Deng, Jun Guo, Jie Yang,*

Carnegie Mellon University

SpiritTagger: A Geo-Aware Tag Suggestion Tool Mined from Flickr

*Emily Moxley, Jim Kleban, B.S. Manjunath,*

University of California, Santa Barbara

Locating Key Views for Image Indexing of Spaces

*Hongyuan Cai, Jiang Yu Zheng,*

Indiana Univ. Purdue Univ. Indianapolis

12:10 – 12:30 ACM MIR Flickr Retrieval Evaluation - *Mark Huiskes, Michael S. Lew*

12:30 – 13:50 Lunch

13:50 – 15:30 Image Retrieval (Chair: Shih-Fu Chang, Columbia University)

Face Annotation for Personal Photos Using Context-Assisted Face Recognition

*Jae Young Choi, Seungji Yang, Yong Man Ro, Konstantinos N. Plataniotis,*

Information and Communication University

A String Matching Approach for Visual Retrieval and Classification

*Mei-Chen Yeh, Kwang-Ting Cheng,*

University of California, Santa Barbara

Large Scale Image Copy Detection Evaluation

*Bart Thomee, Erwin M. Bakker, Mark J. Huiskes, Michael S. Lew,*

Leiden University

Diversifying Image Search with User Generated Content

*Roelof van Zwol, Vanessa Murdock, Lluís Garcia Pueyo, Georgina Ramirez,*

Yahoo! Research

Automatic Image Tagging as a Random Walk with Priors on the Canonical Correlation Subspace

*Timothée Baillioeul, Caizhi Zhu, Yinghui Xu,*

Ricoh Software Research Center

15.30 – 16.00 Coffee break

16:00 – 16:20 Poster Boaster Session (Chair: Mark Huiskes, Leiden University)

16:20 – 17:30 Poster Session 1

**19.00 – 22.00 MIR Dinner Cruise**

## Day 2

9:00 – 9:40 Frontier Talk 1 - Ramesh Jain, University of California, Irvine (Chair: Michael S. Lew, Leiden University)

Multimedia Information Retrieval: Watershed Moments

9.40 – 10.00 Poster Boaster Session (Chair: Mark Huiskes, Leiden University)

10.00 – 10.30 Coffee break

10.30 – 11:10 Frontier Talk 2 - Shih-Fu Chang, Columbia University (Chair: Mark Zhang, SUNY Binghamton)

CuZero: Embracing the Frontier of Interactive Visual Search for Informed Users

11:10 – 12:30 Poster Session 2

12:30 – 14:00 Lunch

14:00 – 15:40 3D Object Retrieval (Chair: Alberto del Bimbo, University of Florence)

A Rectilinearity Measurement for 3D Meshes

*Zhouhui Lian, Paul L. Rosin, Xianfang Sun,*  
Beihang University and Cardiff University

Multiresolution Wavelet Analysis of Shape Orientation for 3D Shape Retrieval

*Zhenbao Liu, Jun Mitani, Yukio Fukui, Seiichi Nishihara,*  
University of Tsukuba

Ranking on Semantic Manifold for Shape-Based 3D Model Retrieval

*Ryutarou Ohbuchi, Toshiya Shimizu,*  
University of Yamanashi

Unsupervised Modeling and Recognition of Object Categories with Combination of Visual Contents and Geometric Similarity Links

*Gunhee Kim, Christos Faloutsos, Martial Hebert,*  
Carnegie Mellon University

Outdoors Augmented Reality on Mobile Phone using Loxel-based Visual Feature Organization

*Gabriel Takacs, Vijay Chandrasekhar, Natasha Gelfand, Yingen Xiong, Wei-Chao Chen, Thanos Bismpiagiannis, Radek Grzeszczuk, Kari Pulli, Bernd Girod,*  
Stanford University

15:40 – 16:00 Coffee break

16:00 – 17:40 Video Retrieval and Concept Detection (Chair: Mark Zhang, SUNY Binghamton)

Video Copy Detection Based on Source Device Characteristics: A Complementary Approach to Content-Based Methods

*Sevinc Bayram, Husrev Taha Sencar, Nasir Memon,*  
NYU Poly

Collaborative Learning for Image and Video Annotation

*Bo Geng, Linjun Yang, Chao Xu, Xian-Sheng Hua,*  
Peking University

An Efficient Algorithm for Keyframe-based Motion Retrieval in the Presence of Temporal Deformations

*Andreas Baak, Meinard Müller, Hans-Peter Seidel,*  
Max-Planck-Institut für Informatik

Assessing Concept Selection for Video Retrieval

*Bouke Huurnink, Katja Hofmann, Maarten de Rijke,*  
University of Amsterdam

A Framework for Classifier Adaptation and its Applications in Concept Detection.

*Jun Yang, Alexander G. Hauptmann,*  
Carnegie Mellon University

17:40 – 17:45 Closing - Michael S. Lew

Poster Session 1

Audio Retrieval

A Critical Assessment of Spoken Utterance Retrieval through Approximate Lattice Representations

*Siavash Kazemian, Frank Rudzicz, Gerald Penn, Cosmin Munteanu*

A Generalized Graph-Spectral Approach to Melodic Modeling and Retrieval

*Alberto Pinto, Paolo Tagliolato*

Content-based Mood Classification for Photos and Music

*Peter Dunker, Stefanie Nowak, André Begau, Cornelia Lanz*

Large-Scale Content-Based Audio Retrieval from Text Queries

*Gal Chechik, Eugene Ie, Martin Rehn, Samy Bengio, Dick Lyon*

On Enabling Techniques for Personal Audio Content Management

*Tommi Lahti, Marko Helén, Olli Vuorinen, Eero Väyrynen, Juha Partala, Johannes Peltola, Satu-Marja Mäkelä*

Searching Musical Audio Datasets by a Batch of Multi-Variant Tracks

*Yi Yu, J. Stephen Downie, Lei Chen, Vincent Oria, Kazuki Joe*

Image Retrieval

An Efficient Image Normalization Method for Face Recognition under Varying Illuminations

*Moonhwi Lee, Cheong Hee Park*

Can Relevance of Images be Inferred from Eye Movements?

*Arto Klami, Craig Saunders, Téofiglo E. de Campos, Samuel Kaski*

Cross-Media Manifold Learning for Image Retrieval & Annotation

*Xianming Liu, Rongrong Ji, Hongxun Yao, Pengfei Xu, Xiaoshuai Sun, Tianqiang Liu*

Extracting Contextual Information from Multi-user Systems for Improving Annotation-based Retrieval of Image Data

*Johanna Vompras, Thomas Scholz, and Stefan Conrad*

Graph-based Multiple-Instance Learning for Object-based Image Retrieval

*Changhu Wang, Lei Zhang, Hong-Jiang Zhang*

Image Retrieval using Query by Contextual Example

*Nikhil Rasiwasia, Nuno Vasconcelos*

Late Fusion of Heterogeneous Methods for Multimedia Retrieval of Images

*Hugo Jair Escalante, Carlos A. Hernández, L. Enrique Sucar, Manuel Montes*

Learning Tag Relevance by Neighbor Voting for Social Image Retrieval

*Xirong Li, Cees G.M. Snoek, Marcel Worring*

Multimodal Photo Annotation and Retrieval on a Mobile Phone

*Xavier Anguera, JieJun Xu, Nuria Oliver*

Ontology Enhanced Web Image Retrieval: Aided by Wikipedia & Spreading Activation Theory

*Huan Wang, Xing Jiang, Liang-Tien Chia, Ah-Hwee Tan*

Salient points in Multimedia Retrieval

Interest Points based on Maximization of Distinctiveness

*Ard Oerlemans, Michael S. Lew*

A Salient-Point Signature for 3D Object Retrieval

*Indriyati Atmosukarto, Linda G. Shapiro*

Component Based Shape Retrieval Using Differential Profiles

*Lei Ding, Mikhail Belkin*

Robust Foreground Segmentation Based on Two Effective Background Models

*Xi Li, Weiming Hu, Zhongfei Zhang, Xiaoqin Zhang*

## Poster Session 2

Video Concept, Action and Retrieval

Action Video Retrieval based on Atomic Action Vocabulary

*Sang-Hack Jung, Yanlin Guo, Rakesh Kumar*

Optimizing Video Search Reranking via Minimum Incremental Information Loss

*Yuan Liu, Tao Mei, Xiuqing Wu, Xian-Sheng Hua*

Human Activity Localization via Sequential Change Detection

*Alexia Briassouli, Ioannis Kompatsiaris*

Place Retrieval with Graph-based Place-View Model

*Xiaoshuai Sun, Rongrong Ji, Hongxun Yao, Pengfei Xu, Tianqiang Liu, Xianming Liu*

Solving the Label Resolution Problem in Supervised Video Content Classification

*Ullas Gargi, Jay Yagnik*

Spatio-Temporal Features for Robust Content-Based Video Copy Detection

*Geert Willems, Tinne Tuytelaar, Luc Van Gool*

Spatio-Temporal Pyramid Matching for Sports Videos

*Jaesik Choi, Won J. Jeon, Sang-Chul lee*

Transductive Multi-Label Learning for Video Concept Detection

*Jingdong Wang, Yinghai Zhao, Xiuqing Wu, Xian-Sheng Hua*

View-Invariant Action Recognition using Interest Points

*Yang Yuedong, Hao Aimin, Zhao Qinqing*

Multimedia Retrieval and Modeling

An Efficient Indexing Structure for Multimedia Data

*Thierry Urruty, Chabane Djeraba, Joemon M. Jose*

Applications of Description Logics to Improve Multimedia Information Retrieval for Efficient Educational Tools

*Serge Linckels, Christoph Meinel*

Improving Object Detection by Removing Noisy Samples from Training Sets

*Gunawan Herman, Getian Ye, Jie Xu, Bang Zhang*

Perplexity-based Evidential Neural Network Classifier Fusion using MPEG-7 Low-level Visual Features

*Rachid Benmokhtar, Benoit Huet*

Semantic Lattices for Multiple Annotation of Images

*Anne-Marie Tousch, Stéphane Herbin, Jean-Yves Audibert*

Towards a Structure-based Multimedia Retrieval Model

*Mouna Torjmen, Karen Pinel-Sauvagnat, Mohand Boughanem*

Multimedia Browsing and Summarization

A Novel Approach to Enable Semantic and Visual Image Summarization for Interactive Exploration

*Jianping Fan*

A Set Theoretical Method for Video Synopsis

*Min Xu, Stan Z. Li, Bin Li, Xiao-Tong Yuan, Shi-Ming Xiang*

Aggregated Cross-Media News Visualization and Personalization

*Cyril Rohr, Dian Tjondronegoro*

"Inside the Bible": Segmentation, Annotation and Retrieval for a New Browsing Experience

*Costantino Grana, Daniele Borghesani, Simone Calderara, Rita Cucchiara*

Multimedia Ontology Learning for Automatic Annotation and Video Browsing

*Anupama Mallik, P. Poornachander, Santanu Chaudhury*

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## Organizing Committee

General Chair: *Michael Lew, Leiden University*

Program Co-Chairs: *Alberto del Bimbo, University of Florence; Erwin Bakker, Leiden University*

Brave New Topics Chair: *Mark Zhang, SUNY Binghamton*

Publicity Chair: *Mark Huiskes, Leiden University*

Asian Liaison: *Kiyo Aizawa, University of Tokyo*

Local Arrangements: *Brooke Hardy, ACM; Charles Buck Krasic, Univ. of British Columbia*

SIG MM Chair: *Klara Nahrstedt, Univ. of Illinois*

SIG MM Director of Conferences: *Nevenka Dimitrova, Philips Research*

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*Kiyo Aizawa, University of Tokyo, Japan*

*Erwin Bakker, Leiden University, The Netherlands*

*Alberto Del Bimbo, University of Florence, Italy*

*Xavier Binefa, University of Barcelona, Spain*

*Shih-Fu Chang, Columbia University, USA*

*Tsuhan Chen, Carnegie Mellon University, USA*

*Qiang Cheng, Wayne State University, USA*

*Tat-Seng Chua, National University of Singapore, Singapore*

*William Grosky, University of Michigan-Dearborn, USA*

*Alan Hanjalic, TU Delft, The Netherlands*

*Richard Harvey, University of East Anglia, UK*

*Thomas Huang, University of Illinois at UC, USA*

*Mark Huiskes, Leiden University, The Netherlands*

*Horace Ip, City University of Hong Kong, China*

*Alex Jaimes, FujiXerox, Japan*

*Joemon Jose, University of Glasgow, UK*

*Avi Kak, Purdue University, USA*

*Anil Kokaram, Trinity College, Ireland*

*Suh-Yin Lee, National Chiao Tung University, Taiwan*

*Michael Lew, Leiden University, The Netherlands*

*Clement Leung, Victoria University, Australia*

*Paul Lewis, University of Southampton, UK*

*Jan Nesvadba, Philips Research, The Netherlands*

*Vincent Oria, New Jersey Institute of Technology, USA*

*Stefan Rueger, Imperial College, UK*



*Shin'ichi Satoh, National Institute of Informatics, Japan*

*Stan Sclaroff, Boston University, USA*

*Behzad Shahraray, ATT Research, USA*

*Linda Shapiro, University of Washington, USA*

*Alan Smeaton, Dublin City University, Ireland*

*Sanghoon Sull, Korea University, South Korea*

*Qi Tian, University of Texas at San Antonio, USA*

*James Wang, Penn State University, USA*

*Xin-Jing Wang, Microsoft Research Asia*

*Zhongfei Zhang, Binghamton University, USA*

*Xiang (Sean) Zhou, Siemens Research, USA*

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James Wang, Penn State University, USA  
Xin-Jing Wang, Microsoft Research Asia  
Zhongfei Zhang, Binghamton University, USA  
Xiang (Sean) Zhou, Siemens Research, USA

## *Important Dates*

Submission Deadline: June 23rd, 2008 at 11:59pm (Timezone: USA Pacific Time, GMT -08:00)

Acceptance Notification Date: July 14th, 2008

Camera Ready Papers Due: July 20th, 2008

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Applications - world wide web searching, preserving cultural heritage, trademark search, data mining, person identification, scientific media, bio-computing and medical multimedia mining/indexing (MRI, CT, ...)

Brave New Topics Session - for emerging frontier theories or applications in MIR. Note that the typical novelty requirement in this session is much higher than the regular paper submissions.

## Paper Submission

Double-blind full papers (preferably 6-8 pages in the ACM style sheet in English), should be submitted through the website submission system. We recommend the authors not give any indications of authorship in the text.

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## *Presenter Information*

All of the talks were designated by the PC Committee as either Oral or Poster Presentation. The type of talk was mentioned in the acceptance email sent to you.

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### Oral Presentation Instructions

You should arrive at least 15 minutes early to your session and notify the session chair that you are present. Your presentation should last around 20 minutes (17 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.

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### Poster Presentation Instructions

Poster presentations will be given at least an "A0" (33 inches width x 46 inches height) space.

#### Boaster Session

Before the poster session there will be an opportunity to give a short (~45 sec.) oral pitch for your poster. You can also submit to the session chair, Mark Huiskes, a single PowerPoint slide which will be shown to the audience as he calls upon you to give your pitch. If you do not submit a slide, a generic one will be made which has the title and main topic.

Please send in the slide on or before Thursday 23 October to [Mark.Huiskes@liacs.nl](mailto:Mark.Huiskes@liacs.nl)

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## *Registration Information*

Registration Procedure for ACM MIR2008

*Registration for MIR2008 is closed.*

-- Personal Information

Note, if you are the representative registrant of your accepted paper, you should indicate the paper id number you obtained from Sheridan Printing, Inc. at the bottom of the page. Note that it should be exactly 8 characters long and start with MIR - i.e. MIRa9be5

-- Instructions

For registration for ACM MIR2008 you will have to check the box before 'MIR Conference' (it includes a banquet, coffee breaks, and CD-proceedings) at the bottom of the page.

-- Other Fees

Here lunch tickets and extra banquet tickets can be ordered.

You finalize your registration by completing the pages:

-- Payment & Verification

Early registration: \$320

Late registration: \$400

-- Confirmation

Please note that once a registration is confirmed, no substitutions are allowed. Please make your selection carefully.



## *Sponsors and Supporters*

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under FOCUS/BRICKS grant number 642.066.603

Philips Research

## ACM MIR Steering Committee

The ACM MIR steering committee was created in 2003 to be the primary advisory board on the direction and growth of the MIR community and select the chairs who will lead the MIR meetings. The steering committee members are intended to be

- (1) Internationally prominent in the MIR field
- (2) Committed to serving and improving the MIR meetings and community
- (3) Responsive to voting on MIR decisions.
- (4) Past general chairs of the ACM MIR meeting

All decisions by the committee are governed by majority vote. In the case of a tie, the chair casts the deciding vote. After a MIR scientific meeting has ended, the steering committee will extend an invitation to the general chairs to join. The term of membership is 4 years from the last time the member was a general chair of MIR. If MIR is not held 4 years later then the term is extended until the next MIR. For example, if the last time a member was a MIR general chair was in 2020, then he would be a member until and including the day before the MIR meeting of 2024. If there is not a MIR meeting in 2024 then his term expires on the day before the next MIR meeting. If there are 3 or more general chairs, only 2 will be invited to join the steering committee. When the term of a member ends or in the situation where a member has been unresponsive for a complete year, he is moved to the Alumni/Inactive section.

### Chair

Michael S. Lew, Leiden University, The Netherlands (until MIR2012)

### Members

Nozha Boujemaa, INRIA, France (until MIR2011)

James Z. Wang, The Pennsylvania State University, USA (until MIR2011)

Hongjiang Zhang, Microsoft Research Asia, China (until MIR2010)

Qi Tian, University of Arizona, USA (until MIR2010)

ACM SIGMM Designated Officer or representative

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### Alumni and Inactive Members

Ramesh Jain, University of California at Irvine, USA

Brigitte Kerhervé, Université de Québec a Montréal, Canada

Vincent Oria, New Jersey Institute of Technology, USA

Shin'ichi Satoh, National Institute of Informatics, Japan

Mario A. Nascimento, University of Alberta, Canada

Noboru Babaguchi, Osaka University, Japan

K Selcuk Candan, Arizona State University, USA

Sibel Adali, Rensselaer Polytechnic Institute, USA

Yuichi Nakamura, University of Tsukuba, Japan

Uma Srinivasan, CSIRO Sydney, Australia

Nicu Sebe, University of Amsterdam, The Netherlands

Chabane Djeraba, LIFL, France

John Smith, IBM Research, USA



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- Digital life experience analysis and retrieval
- Video surveillance browsing and retrieval
- Learning and relevance feedback in MIR
- Applications

### PROGRAM COMMITTEE

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Kiyoo Aizawa, University of Tokyo, Japan  
Erwin M. Bakker, Leiden University, The Netherlands  
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### Invited Speakers

**Prof. Thomas S. Huang, UIUC**  
**Prof. Shih-Fu Chang, Columbia Univ.**  
**Prof. Ramesh Jain, UC-Irvine**

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