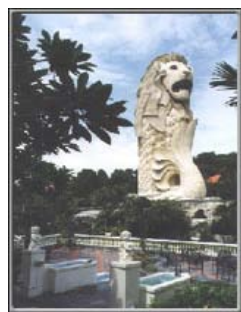# MIR 2005

7th ACM SIGMM International Workshop on Multimedia Information Retrieval

November 10-11, 2005, Singapore
in conjunction with [ACM Multimedia 2005](#)

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        Steering Committee
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GENERAL INFORMATION

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 techiques on how to browse, search, and summarize multimedia collections. MIR2005 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 7th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2005) 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.

Workshop Co-Chairs

- Hongjiang Zhang, Microsoft Research Advanced Technology Center, Beijing, China (hjzhang@microsoft.com)
- John Smith, IBM T. J. Watson Research Center, Hawthorne, NY, U.S.A (jrsmith@watson.ibm.com)
- Qi Tian, Department of Computer Science, University of Texas at San Antonio, San Antonio, TX, U.S.A (qitian@cs.utsa.edu)

Call For Organizers for MIR 2006

[Invitation for Organizing MIR'06](#)

Important Dates: Deadline for proposals: December 1st, 2005

Here is the link to [MIR 2006](#).

GENERAL INFORMATION

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 techiques on how to browse, search, and summarize multimedia collections. MIR2005 is a peer-reviewed meeting for scientific researchers and users to discuss important challenges in multimedia retrieval.

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CALL FOR PAPER

(download PDF version)

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IMPORTANT DATES:

August 5th , 2005:   Extended submission deadline of full paper
August 22th, 2005:   Notification of acceptance
August 29th, 2005: Camera-ready full paper

OVERVIEW

The content extraction, indexing, and retrieval of multimedia data continue to be one of the most challenging and fast-growing research areas. Digital libraries, education and training, media commerce, entertainment, home media, video surveillance, bio-computing in bioinformatics, biometrics, and medical multimedia database, have created a worldwide need for new paradigms and techniques on how to browse, search, and summarize multimedia collections.

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Topics of interests include but are not limited to:

� Learning and relevance feedback in multimedia retrieval
� Content-based indexing, search, and retrieval of multimedia data
� Summarization and visualization of multimedia
� Indexing and retrieval of streaming audio and video
� Semantic representation and modeling
� Semantic content analysis and annotation
� User perspectives and user modeling
� Intelligent agents for multimedia indexing and retrieval
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� Multi-modal human-computer interaction
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� High performance multimedia indexing algorithms
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� Emerging query and retrieval models: beyond client and server (peer-to-pee)
� Multi-modal/multi-sensor fusion techniques
� Applications in biometrics, bioinformatics, medical multimedia mining and indexing (MRI, CT, PET, �), and surveillance (multi-modal event detection and recognition).

Note: This year the workshop will encourage the submission of paper on emerging topics which we believe that are going to be interesting to the community. Some topics are such as video mining, new applications in biometrics (person identification using face, fingerprint, iris, or multiple soft biometrics), video surveillance, and medical

databases, and retrieval of novel media.

PAPER SUBMISSION

[Submit online](). The submitted paper should be no longer than **8 pages** in the ACM style sheet in English.

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.

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John Smith, IBM T. J. Watson Research Center, Hawthorne, NY, U.S.A
Qi Tian, Department of Computer Science, University of Texas at San Antonio, San Antonio, TX, U.S.A

PANEL SESSION CHAIR

Alejandro (ALEX) Jaimes, FXPAL Japan, Fuji Xerox (Nakai Research Center) Tokyo, Japan

SPECIAL SESSION CHAIR

James Wang, The Pennsylvania State University, USA
[Special Session Program]()

PROGRAM COMMITTEE

Ramazan S. Aygun, University of Alabama in Huntsville, USA
Alberto Del Bimbo, University of Florence, Italy
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MIR 2005 Program (updated 10/25/2005)

Thursday November 10, 2005

2:00-3:00 pm	**Opening Remarks** Hongjiang Zhang *(Microsoft Research Advanced Technology Center, China)* **Keynote Speech** Weiying Ma, *Microsoft Research Asia* *From Relevance to Intelligence: Toward Next Generation Web Search*
3:00 � 5:00 pm	*Poster Session* *Session Chair: Qi Tian (The University of Texas at San Antonio, USA)*
	Poster Session 1: Video Annotation, Indexing and Retrieval
	Enhanced Ontologies for Video Annotation and Retrieval Marco Bertini, Alberto Del Bimbo, and Carlo Torniai
	Semi-Automatic Video Annotation Based on Active Learning with Multiple Complementary Predictors Song Yan, Xian-Sheng Hua, Li-Rong Dai, and Meng Wang
	A Motion-Flow-Based Fast Video Retrieval System Chih-Wen Su, Kuo-Chin Fan, Hong-Yuan Mark Liao, Chia-Wen Lin, Hsiao-Rong Tyan
	Video Booklet � A Natural Video Searching and Browsing Interface Caizhi Zhu, Xian-Sheng Hua, Tao Mei, and Xiu-Qing Wu
	A New General Framework for Shot Boundary Detection and Key-Frame Extraction Huamin Feng
	A Unified Framework for Semantic Shot Representation of Sports Video Xiaofeng Tong, Hanqing Lu, Lingyu Duan, and Qingshan Liu
	Poster Session 2: Image/WWW-based System and Applications
	Semantic Image Classification with Hierarchical Feature Subset Selection Yuli Gao
	Photo-to-Search: Using Multimodal Queries to Search the Web from Mobile Devices Xin Fan, Xing Xie, Mingjing Li, Zhiwei Li, and Wei-Ying Ma
	Multiple Random Walk and Its Application Mingjing Li, Jingrui He, and Hanghang Tong
	Scenario optimization for interactive category search Giang Phuong Nguyen and Marcel Worring
	Macroblock Mode Decision for H.264 Tran Duc Hai Du
4:00 � 4:30 pm	Afternoon Tea
5:00 � 6:40 pm	*Special Session 1: Machine Learning for Visual Information Retrieval* *Session Chair: Nozha Boujemaa (INRIA, France)*
	A Cluster-wise Semantics Endorsement Approach to Image Retrieval Jia Li
	Exploiting Temporal Discontinuities for Event Detection and Manipulation in Video Streams Hugh Denman, Erika Doyle, Anil Kokaram, Niall Rea, Rozenn Dahyot, and Ray Fuller
	An Interactive System for Mental Face Retrieval Yuchun Fang, Donald Geman
	Discriminant Local Features Selection using Efficient Density Estimation in a Large Database Alexis Joly and Olivier Buisson
	Hybrid visual and conceptual image representation within active relevance feedback context

	Marin Ferecatu, Nozha Boujemaa, and Michel Crucianu

Friday November 11, 2005

9:00 � 10:00 am	**Keynote Speech** Ramesh Sarukkai, *Yahoo! Inc* Video Search: Opportunities & Challenges
10:00-10:30 am	Morning Tea
10:30-12:10 am	*Oral Session 1: Image/Video/Learning* *Session Chair: John Smith (IBM T. J Watson Research Center, USA)*
	Active Semi-Supervised Fuzzy Clustering for Image Database Categorization Nizar Grira, Michel Crucianu, and Nozha Boujemaa
	Mutual Relevance Feedback for Multimodal Query Formulation in Video Retrieval Arnon Amir, Marco Berg, and Haim Permuter
	Player Identification in Soccer Videos Alberto Del Bimbo, Marco Bertini, and Walter Nunziati
	Tracking Concept Drifting with an Online-Optimized Incremental Learning Framework Jun Wu, Dayong Ding, Xian-Sheng Hua, and Bo Zhang
	Low-cost Distributed Learning of A Probabilistic Mixture Model for Multimedia Content-based Indexing on A Large Scale Afshin Nikseresht, Marc Gelgon
12:10 -1:10 pm	Lunch
1:10-2:50 pm	*Oral Session 2: Web Searching and Applications* *Session Chair: Hongjiang Zhang (Microsoft Research Advanced Technology Center, China)*
	SSP: Similarity Space Projection, A Novel Framework for Web Image Search and Annotation Tie-Yan Liu, Ying Liu, Tao Qin, Lei Zhang, and Wei-Ying Ma
	Probabilistic Web Image Gathering Keiji Yanai and Kobus Barnard
	Multi-Graph Enabled Active Learning for Multimodal Web Image Retrieval Xin-Jing Wang, Wei-Ying Ma, Lei Zhang, and Xing Li
	Inferring Similarity Between Music Objects with Application to Playlist Generation Chris Burges, Cormac Herley, and Robert Ragno
	Framework for Personalized Multimedia Summarization Lalitha Agnihotri, John Kender, Nevenka Dimitrova, and John Zimmerman
2:50 - 3:10 pm	Afternoon Tea
3:10-4:50 pm	*Special Session 2: Multimedia Information Retrieval: Challenges and Real-world Applications* *Session Chair: James Z. Wang (The Penn State University, USA)*
	Evaluation Strategies for Image Understanding and Retrieval Keiji Yanai, Nikhil Shirahatti, Prasad Gabbur, and Kobus Barnard
	Localized Content-Based Image Retrieval Rouhollah Rahmani, Sally Goldman, Hui Zhang, and Jason Fritts
	A Content-Based Image Retrieval System for Fish Taxonomy Yixin Chen, Henry L. Bart, Jr., and Fei Teng
	Extracting Information from Multimedia Meeting Collections Daniel Gatica-Perez, Dong Zhang, and Samy Bengio
	Content-Based Image Retrieval - Approaches and Trends in the New Age Ritendra Datta, Jia Li, and James Z. Wang
	Panel Session: Multimedia Information Retrieval: What is it and Why isn't Anyone Using It? *Session Chair: Alejandro (ALEX) Jaimes (FXPAL Japan, Fuji Xerox Co., Ltd.)*

Thursday November 10

| 5:00 -6:30 pm | Ramesh Sarukki, *Yahoo! Inc*
Wei-Ying Ma, *Microsoft Research Asia*
Sbastien Gilles, *LTU technologies*
Mike Christel, *Carnegie Mellon University* |

MIR 2005 Keynote Speeches

Weiying Ma, *Micrsoft Research Asia*

From Relevance to Intelligence: Toward Next Generation Web Search

November 10, 2005 2:00-3:00 pm

Ramesh Sarukkai, *Yahoo! Inc.*

Video Search: Opportunities & Challenges

Presentation Slides in [ppt].

November 11, 2005 9:00-10:00 am

Note: Refer to Panel Session for the bios of the keynote speakers.

MIR 2005 Panel Session

Panel Session: Multimedia Information Retrieval: What is it and Why isn't Anyone Using It?

Alejandro (ALEX) Jaimes *(FXPAL Japan, Fuji Xerox Co., Ltd.) - Sessions chair*
Ramesh Sarukki, *Yahoo! Inc*
Wei-Ying Ma, *Microsoft Research Asia*
Sbastien Gilles, *LTU technologies*
Mike Christel, *Carnegie Mellon University*

Ramesh Sarukki, *Yahoo! Inc*

Dr. Ramesh Sarukkai currently heads up the video search team at Yahoo. Prior to this, he managed the Small Business Platform (billing/ordering/infrastructure for hosting, domains, and e-commerce sites), and also architected wireless/voice products during his 6+ years at Yahoo. Before that, Dr. Sarukkai worked at IBM, and Kurzweil/L&H on vision, speech and natural language technologies.

Dr. Sarukkai holds a PhD from University of Rochester, NY. He has published/presented in leading journals and conferences in the areas of AI, Information retrieval, speech, media, and internet technologies, in addition to authoring the book "Foundations of Web Technology". Dr. Sarukkai also served on the World Wide Web Consortium (W3C) Voice Browser working group, recently chaired a panel in World Wide Web 2005 conference (Japan) on networking effects of the Web, and holds many patents related to speech, wireless, e-commerce, and search, including the first invention of large vocabulary speech recognition system for web browsing. His current interests include media search, social annotation & networking effects on the Web, and emergent web technologies.
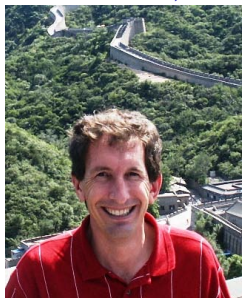
Wei-Ying Ma, *Microsoft Research Asia*

Dr. Wei-Ying Ma received the B.S. degree in electrical engineering from the National Tsing Hua University in Taiwan in 1990, and the M.S. and Ph.D. degrees in electrical and computer engineering from the University of California at Santa Barbara in 1994 and 1997, respectively. From 1994 to 1997 he was engaged in the Alexandria Digital Library (ADL) project in UCSB while completing his Ph.D. He developed a web-based image retrieval system called Netra which has been frequently cited by other researchers. From 1997 to 2001, he was with HP Labs where he worked in the field of multimedia adaptation and distributed media services infrastructure. He joined Microsoft Research Asia in 2001. Since then, he has been leading a research group to conduct research in the areas of information retrieval, web search, data mining, mobile browsing, and multimedia management. He currently serves as an Editor for the ACM/Springer Multimedia Systems Journal and Associate Editor for ACM Transactions on Information System. He is also the general co-chair of International Multimedia Modeling (MMM) Conference 2005 and International Conference on Image and Video Retrieval (CIVR) 2005. He has published 4 book chapters and over 100 international journal and conference papers.

Sbastien Gilles, *LTU technologies*

S�bastien Gilles is Chief Scientist and co-founder of LTU Technologies, a company specializing in image and video analysis (www.ltutech.com). S�bastien graduated from Oxford University with a Ph.D. in Computer Vision, focused on information theory and image matching. After completing his Ph.D., he joined the Image and Multimedia Indexing Group at INRIA, France. S�bastien graduated from the Ecole Nationale Sup�rieure de Techniques Avanc�es in Paris, France, with a major in Artificial Intelligence and Computer Science. He received a master�s degree in Computer Science from the Ecole Polytechnique, France.

Mike Christel, *Carnegie Mellon University*

Mike Christel enjoys building systems and conducting research at the intersection of human-computer interaction, multimedia processing, information visualization, and digital libraries. He has worked with digital video since 1987, and has worked on interface development and evaluation for Carnegie Mellon's Informedia digital video understanding research group since its beginning in 1994. Christel received his Ph.D. from Georgia Tech in 1991, with his thesis examining digital video interfaces for training software engineers about code inspections.

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.

"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 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. 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.

"POSTER PRESENTATION" INSTRUCTIONS:

There will be only one Poster Session beginning at 3:00 pm, on November 10th, 2005. Please arrange you poster before the start.

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.

Organizing Committee

General Co-Chairs

Hongjiang Zhang
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No.49, Zhichun Road, Hai Dian District
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Assistant Professor
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Panel Session Chair

Alejandro (ALEX) Jaimes
FXPAL Japan, Fuji Xerox (Nakai Research Center)
Tokyo, Japan
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http://www.ee.columbia.edu/~ajaimes/

Special Session Chair

James Wang
PNC Technologies Career Development Professorship
313C Information Sciences and Technology Building
The Pennsylvania State University
University Park, PA 16802, USA
jwang@ist.psu.edu
http://www-db.stanford.edu/~wangz/home/ Tel: +1 (814) 865-7889

Special Session Program

Program Committee

Ramazan S. Aygun, University of Alabama in Huntsville, USA
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Nozha Boujemaa, Inria, France
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Michael Lew, LIACS Media Lab, The Netherlands
Mingjing Li, Microsoft Research Asia, China
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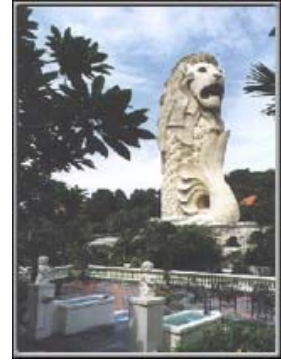
ACM SIGMM MIR Steering Committee

Brigitte Kerherv� (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 Srinavasan (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

MIR 2005

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Workshop Chairs

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IBM T. J. Watson Research Center, USA

Qi Tian
Univ of Texas at San Antonio, USA

Panel Session Chair

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FXPAL Japan

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CALL FOR PAPER

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