



9th ACM SIGMM International Workshop on Multimedia Information Retrieval

*In conjunction with [ACM Multimedia 2007](#)
September 28-29, 2007, University of Augsburg,
Germany*

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Association for
Computing Machinery

Advancing Computing as a Science & Profession

News (Feb 2008): The MIR conference series is now officially an ACM Conference. Please go to the 2008 MIR Conference.

Acceptance rate in 2007: peer-reviewed oral presentation papers: 10/50=20%; all peer-reviewed papers: 25/50=50%.

General Information

Multimedia information retrieval is being transformed into a cross-cutting field. 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. MIR 2007 is a peer-reviewed meeting for researchers in both academia and the industry, and users to discuss important challenges in multimedia retrieval. We welcome relevant paper submissions from computer and information sciences, computer engineering, electrical engineering, mathematics, statistics, physics, business, humanities, biology, medicine, ...

Following the success of the eight previous MIR workshops held in conjunction with the ACM Multimedia Conferences, the purpose of the 9th ACM SIGMM International Workshop on Multimedia Information Retrieval 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.

MIR has been evolving and growing rapidly and is already the largest dedicated ACM meeting in this research area. In [MIR 2006](#),

the acceptance rate for oral track peer-reviewed papers was 14%. The workshop was attended by more than 70 registered participants.

News:

- July 10, **Acceptance decisions for peer-reviewed papers have been made.** Click [Program](#) to see details.
- May 30, [Paper submission system](#) is now open.
- May 25, The [two Special Sessions](#) have been selected. The [panel](#) this year will discuss **New Challenges in Multimedia Research for the Increasingly Connected and Fast Growing Digital Society**.
- Apr 20, The Technical Program Committee has been formed.
- Apr 19, Authors of MIR 2007 accepted papers are encouraged to consider submitting extended and more complete work to a [real-world image annotation and retrieval special issue](#) of the **IEEE Transactions on Pattern Analysis and Machine Intelligence**.
- MIR 2007 will feature [Michael Lesk](#) and [Arnold Smeulders](#) as keynote speakers.
- [Alberto Del Bimbo](#) (University of Florence, Italy) and [Jia Li](#) (Penn State, USA) will co-chair the Technical Program Committee. [Jiebo Luo](#) of Kodak will serve as the chair for special sessions.
- [James Z. Wang](#) and [Nozha Boujemaa](#) are Organizing General Chairs.





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Call for Papers (Other formats: WORD, PDF)

Indexing and retrieval of large quantity of multimedia data is a highly challenging and growingly important research problem for the multimedia research community. Researchers in multimedia, databases, computer vision, machine learning, signal and image processing and statistics have worked on multimedia information retrieval for over a decade. A number of significant technological advances have been achieved in this field. Some of the techniques have been applied to real-world application areas such as art image retrieval, biomedical image and video retrieval, education, sensor networks, large-scale online personal and professional photo sharing communities, classification and filtering of images on the Web, scientific content (remote sensing and biodiversity), computer forensics, threat assessment and security applications more generally. We envision more and more real-world applications of multimedia information retrieval to appear in the coming years. In this workshop, we will bring together active researchers, developers, and practitioners from both academia and the industry to showcase latest technological advances and to discuss future possibilities.

We are soliciting high-quality submissions that:

- present novel and fresh ideas
- question existing paradigms
- introduce brave new research directions

in the following (and other related) Topics of Interest:

- Content-based indexing, search, and retrieval of multimedia data
- Image, video, audio and 3D models similarity measures
- Summarization and visualization of multimedia data sets
- Indexing and retrieval of streaming audio and video
- Semantic content analysis, classification and annotation, representation and modeling

- Learning and relevance feedback in multimedia retrieval
- User perspectives and user modeling
 - Intelligent agents for multimedia indexing and retrieval
 - Multimedia query languages, query processing and optimization
 - Media mining from semi-structured data (image, 3D models, audio, video and documents)
 - Efficient and scalable storage and search techniques
 - High performance algorithms for distributed multimedia repositories access
 - Tools, benchmarks, and standards
 - Emerging query and retrieval models: beyond client and server
 - Human computer interaction for multimedia information retrieval systems
 - Applications of multimedia information retrieval in the following fields (but not limited to): art and cultural heritages, 3-D imagery, computer security, sports video, surveillance and forensics, medical and health care imagery.

Important Dates:

June 22, 2007: Submission deadline

July 9, 2007: Notification of acceptance

July 15, 2007: Camera-ready full paper

The papers should be submitted online. Each paper should be no more than 10 pages prepared in the ACM style and written in acceptable English. All submissions will be peer-reviewed by at least 3 members of the program committee. The workshop proceedings will be printed by ACM and indexed in the ACM Digital Library. A paper submitted to MIR should not have significant overlap with other papers currently being reviewed, accepted, or published by other conferences, workshops, or journals.

Chairs:

Technical Program Committee chairs:

Alberto Del Bimbo
 Dipartimento Sistemi e
 Informatica
 University of Florence
 Via S. Marta 3, 50139 Firenze,
 Italy
 (Office) +39-055-4796262
 (Fax) +39-055-4796363
 (email) delbimbo AT dsi DOT
 unifi DOT it
 (Web)
<http://www.dsi.unifi.it/~delbimbo>

Jia Li
 Department of Statistics &
 (by courtesy) CSE
 The Pennsylvania State
 University
 University Park, PA 16802,
 USA
 (Office) +1-814-863-3074
 (Fax) +1-814-863-7114
 (email) jiali AT psu DOT
 edu
 (Web)
<http://www.stat.psu.edu/~jiali>

Workshop organizing chairs:

James Z. Wang
The Pennsylvania State
University, USA
(Web)
<http://wang.ist.psu.edu>

Nozha Boujema
INRIA Rocquencourt,
France
(Web) <http://www-rocq.inria.fr/~boujema>

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Paper Submission:

Paper submission is now closed.

You will need to have access to the EDAS system. If you do not already have an account on that system, you can create a new account.

This submission system is for regular peer-reviewed papers of the program. Special session authors please send your papers to the Chair of Special Sessions.

You can update the submission at any time before the deadline. Contact the technical program committee chair Jia Li if you have trouble uploading your paper.

Important Note: A paper submitted to the MIR Workshop should not have any significant overlap with other papers currently being considered, accepted, or published by other conferences, workshops, or journals. Ask the chair if you have any questions on this.

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Program:

This is the almost-finalized program for the workshop. Peer-reviewed oral sessions, peer-reviewed poster sessions, special sessions, panel, and keynote talks are all included here.

Friday September 28, 2007

Opening: 8:30AM - 10:00AM

- Opening Remarks and Introduction of Speaker. Jia Li (The Pennsylvania State University, USA)
- **Keynote Speech. Michael Lesk (Rutgers University, USA)**

Coffee break 10:00AM - 10:20AM

Oral Session 1: 10:20AM - 12:00PM Image Retrieval and Multimedia Modeling

Chair: Marco Bertini, University of Florence, Italy

1. Regularized Regression on Image Manifold for Retrieval, Deng Cai (University of Illinois at Urbana Champaign, US) et al.
2. Clustering Near-duplicate Images in Large Collections, Jun Jie Foo (RMIT University, AU)
3. Learning semantic categories for 3D Model Retrieval, Ryutarou Ohbuchi (University of Yamanashi, JP)
4. Learning User Intention in Relevance Feedback using Optimization, Jian Guan (University of Nottingham, UK); Guoping Qiu (University of Nottingham, UK)
5. Unsupervised Content-Based Indexing for Sports Video Retrieval, Michael Fleischman (MIT, US); Deb Roy (MIT, US)

Lunch break 12:00PM - 13:30PM

Poster Session 1: 13:30PM - 15:00PM Multimedia Retrieval and Modeling

Chair: Jia Li, The Pennsylvania State University

1. Effective Retrieval of Polyphonic Audio with Polyphonic Symbolic Queries, Iman Suyoto (RMIT, AU); Alexandra Uitdenbogerd (RMIT, AU); Falk Scholer (RMIT, AU)
2. Visual Language Modeling for Image Classification, Lei Wu

- (University of Science and Technology of China, CN); Mingjing Li (Microsoft Research Asia, CN); Zhiwei Li (Microsoft Research Asia, CN); Wei-Ying Ma (Microsoft Research, China, CN); Nenghai Yu (University of Science and Technology of China, CN)
3. Optimal Decomposition of P2P Networks based on File Exchange Patterns for Multimedia Content Search & Replication, Nikolaos Doulamis (National Technical University of Athens, GR); Pantelis Karamolegkos (National Technical University of Athens, GR); Anastasios D. Doulamis (National Technical University of Athens, GR); Ioannis Nikolakopoulos (National Technical University of Athens, GR)
 4. Music Similarity: Improvements of Edit-based Algorithms by Considering Music Theory, Matthias Robine (University of Bordeaux, FR); Pierre Hanna (University Bordeaux 1, FR); Pascal Ferraro (University Bordeaux 1, FR)
 5. Sample-based Creation of Peer Summaries for Efficient Similarity Search in Scalable Peer-to-Peer Networks, Soufyane El Allali (Bamberg University, DE); Daniel Blank (Bamberg University, DE); Wolfgang Müller (Bamberg University, DE); Andreas Henrich (Bamberg University, DE)
 6. Tempo Induction Algorithm in MP3 Compressed Domain, Antonello D'Aguanno (Università degli Studi di Milano, IT); Giancarlo Vercellesi (University of Milan, IT)
 7. Visual and Textual Fusion for Region Retrieval From Both Bayesian Reasoning and Fuzzy Matching Aspects, Rongrong Ji (Harbin Institute of Technology, CN); Yao Hongxun (Harbin Institute of Technology, HK)
 8. Stratified Helix Information of Medial-axis-points Matching for 3D Model Retrieval, Ji Jia (Xi'an Jiaotong Univ., CN); Zheng Qin (Tsinghua University, CN); Jiang Lu (Xi'an Jiaotong Univ., CN)

Poster Session 2: 13:30PM - 15:00PM Video Retrieval and Annotation

Chair: Jia Li, The Pennsylvania State University

1. Exploiting Redundancy in Cross-Channel Video Retrieval, Bouke Huurnink (University of Amsterdam, NL); Maarten de Rijke (University of Amsterdam, NL)
2. Adapting Appearance Models of Semantic Concepts to Particular Videos via Transductive Learning, Ralph Ewerth (University of Marburg, DE); Bernd Freisleben (University of Marburg, DE)
3. Evaluating Bag-of-Visual-Words Representations in Scene Classification, Jun Yang (Carnegie Mellon University, US); Yu-Gang Jiang (City University of Hong Kong, HK); Alexander Hauptmann (Carnegie Mellon University, US); Chong-Wah Ngo (City University of Hong Kong, HK)
4. Searching For Repeated Video Sequences, Tolga CAN (Bilkent University, TR); Pinar Duygulu (Bilkent University, TR)
5. TV Ad Video Categorization with Probabilistic Latent Concept

- Learning, Jinqiao Wang (Institute of Automation(IA) Chinese Academy of Sciences(CAS), CN); Ling-Yu Duan (Institute for Infocomm Research, SG); Lei Xu (Institute of Automation, CN); Hanqing Lu (the Institute of Automation, Chinese Academy of Sciences, CN); Jesse Jin (University of Newcastle, AU)
6. Building a Comprehensive Ontology To Refine Video Concept Detection, Zheng-Jun Zha (University of Science and Technology of China, CN); Tao Mei (Microsoft Research Asia, CN); Zengfu Wang (University of Science and Technology of China, CN); Xian-Sheng Hua (Microsoft Research Asia, CN)
 7. Scene Duplicate Detection from Videos Based on Trajectories of Feature Points, Shin'ichi Satoh (National Institute of Informatics, JP)

Coffee break 15:00PM - 15:30PM

Special Session 1: 15:30PM - 17:30PM Semantic Indexing of Consumer and Web Videos

Chair: Shih-Fu Chang, Columbia University

1. Kodak Consumer Video Benchmark Data Set: Concept Definition and Annotation
Alexander C. Loui, Jiebo Luo, Shih-Fu Chang, Dan Ellis, Wei Jiang, Lyndon Kennedy, Keansub Lee, Akira Yanagawa (Columbia University, US, and Kodak Research, US)
2. Large-Scale Multimodal Semantic Concept Detection for Consumer Video
Shih-Fu Chang, Dan Ellis, Wei Jiang, Keansub Lee, Akira Yanagawa, Alexander C. Loui, Jiebo Luo (Columbia University, US, and Kodak Research, US)
3. Multi-Modal Web Video Categorization
Linjun Yang, Jiemin Liu, Tao Mei, Xiaokang Yang, Xian-Sheng Hua (Microsoft, CN)
4. Watch What I Watch: Using Community Activity To Understand Content
David A. Shamma, Ryan Shaw, Peter L. Shafon, Yiming Liu (Yahoo! Research, US)
5. Learning People Annotation from the Web via Consistency Learning
Jay Yagnik, Atiq Islam (Google Inc., US)
6. ITEMS: Intelligent Travel Experience Management System
Chih-Chieh Liu, Chun-Hsiang Huang, Wei-Ta Chu, and Ja-Ling Wu (National Taiwan University, TW)

Saturday September 29, 2007

Opening: 8:30AM - 10:00AM

- Opening Remarks and Introduction of Speaker. Alberto Del

Bimbo (University of Florence, Italy)

- **Keynote Speech. Arnold Smeulders (University of Amsterdam, The Netherlands)**

Coffee break 10:00AM - 10:20AM

Oral Session 2: 10:20AM - 12:00PM Video Retrieval

Chair: Jiebo Luo, Kodak Research

1. Video Diver: Generic Video Indexing with Diverse Features, Dong Wang (Tsinghua University, CN); Xiaobing Liu (Tsinghua University, CN)
2. Combining Multimodal Preferences for Multimedia Information Retrieval, Eric Bruno (University of Geneva, CH); Jana Kludas (University of Geneva, CH); Stephane Marchand-Maillet (University of Geneva, CH)
3. Trademark matching and retrieval in sports video databases, Andrew Bagdanov (University of Florence, IT); Lamberto Ballan (University of Florence, IT); Marco Bertini (Universit` di Firenze, IT); Alberto Del Bimbo (University of Firenze, IT)
4. RoleNet: Treat a Movie as a Small Society, Chung-Yi Weng (National Taiwan University, TW); Wei-Ta Chu (National Taiwan University, TW); Ja-Ling Wu (National Taiwan University, TW)
5. Semantic-Event Based Analysis and Segmentation of Wedding Ceremony Videos, Wen-Huang Cheng (National Taiwan University, TW); Yung-Yu Chuang (National Taiwan University, TW); Bing-Yu Chen (National Taiwan University, TW); Ja-Ling Wu (National Taiwan University, TW); Shao-Yen Fang (National Taiwan University, TW); Yin-Tzu Lin (National Taiwan University, TW); Chi-Chang Hsieh (National Taiwan University, TW); Chen-Ming Pan (National Taiwan University, TW); Wei-Ta Chu (National Taiwan University, TW); Min-Chun Tien (National Taiwan University, TW)

Lunch break 12:00PM - 13:30PM

Panel Session: 13:30PM - 15:00PM New Challenges in Multimedia Research for the Increasingly Connected and Fast Growing Digital Society

Chair: Jia Li, The Pennsylvania State University

Panelists:

- Shih-fu Chang (Columbia University, USA)
Michael Lesk (Rutgers University, USA)
Rainer Lienhart (University of Augsburg, Germany)
Jiebo Luo (Eastman Kodak Research, USA)
Arnold Smeulders (University of Amsterdam, The Netherlands)

Coffee break 15:00PM - 15:30PM

Special Session 2: 15:30PM - 17:00PM Personalized Multimedia Information Retrieval

Chair: Nicu Sebe, University of Amsterdam (The Netherlands)

1. Personalized Multimedia Retrieval: The New Trend?

Nicu Sebe (University of Amsterdam, NL), Qi Tian
(University of Texas)

2. Browsing visual collections using graphs
Marcel Worring, Ork de Rooij and Ton van Rijn (University of
Amsterdam, NL)
3. Personalized Retrieval of Sports Video
Yifan Zhang, Xiaoyu Zhang, Changsheng Xu, Hanqing Lu
(National University of Singapore, SG)
4. Evaluating the Implicit Feedback Models for Adaptive Video
Retrieval
Frank Hopfgartner, Joemon Jose (University of Glasgow, UK)

This schedule is subject to change. Last updated: August 1, 2007.

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Keynote Speakers:

The MIR 2007 will feature two keynote speakers:

- **Michael Lesk**
Professor, Rutgers University, and Chair, Department of
Library and Information Science



Managing 3D: Our Next Problem

Museums in the world contain billions of objects (the Smithsonian alone has some 250 million things). Three-dimensional scanning is now cheap, and we can expect to see a flood of scanned solid objects join the even more numerous images and videos that we now have. Although we haven't yet solved the problems of managing two-dimensional scanned images, we're about to

face the more complex problem of 3-D objects.

Biography: After receiving the PhD degree in Chemical Physics in 1969, Michael Lesk joined the computer science research group at Bell Laboratories, where he worked until 1984. From 1984 to 1995 he managed the computer science research group at Bellcore, then joined the National Science Foundation as head of the Division of Information and Intelligent Systems, and since 2003 has been Professor (and now Chair) of Library and Information Science at Rutgers University. He is a Fellow of the Association for Computing Machinery, received the Flame award from the Usenix association, and in 2005 was elected to the National Academy of Engineering.

- **Arnold Smeulders**
Professor, University of Amsterdam, The Netherlands



Semantic Search

We review the state of the art in content-based exploration of large sets of image and video data. The key to any current approach is features to which still many new additions have been made in the last five years). We discuss image features on a global, regional, and key point level employing stochastic textures derived from natural image statistics and Gaussian color invariant feature sets [Geusebroek 2006]. Features evolving from analysis moving images are still under the largest evolution. In this topic we will discuss several advances towards robust and long term tracking [Nguyen 2005, Nguyen 2006, Burghouts 2006]. Then we move on to review the state of the art in retrieval systems as it has evolved since the end of the early years in 2000. We do so on the basis of the components and evaluation of our video search engine. The MediaMill system performed well in the TRECvid competition in the years 2004 to 2006 [Snoek 2006] and provide a perspective the future of search engines.

1. Hieu Tat Nguyen and Arnold W. M. Smeulders: Multiple target tracking by incremental probabilistic PCA, IEEE trans PAMI 29-1, 52-64, 2007.
 2. Hieu Tat Nguyen and Arnold W. M. Smeulders: Robust tracking using foreground-background texture discrimination, IJCV, 68-3, 277 - 294, 2006.
 3. Jan C. van Gemert, Jan-Mark Geusebroek, Cor J. Veenman, Cees G. M. Snoek Arnold W. M. Smeulders: Robust Scene Categorization by Learning Image Statistics in Context, SLAM06.
 4. Cees G. M. Snoek, Marcel Worring, Jan-Mark Geusebroek, Dennis C. Koelma, Frank J. Seinstra and Arnold W.M. Smeulders: The Semantic Pathfinder: Using an Authoring Metaphor for Generic Multimedia Indexing, IEEE trans PAMI, 28-10, 1678-1689, 2006.
- Gert Jan Burghouts and Jan Mark Geusebroek: Quasi-periodic spatiotemporal filtering. IEEE trans IP, 15-6, 1572-1582, 2006.

Biography: Arnold Smeulders received an M.Sc from the Technical University of Delft in physics in 1977, and in 1983, a PhD from the medical faculty of Leiden University on the topic of visual pattern analysis. Subsequently, he was associated professor in medical image analysis at the Vrije Universiteit Amsterdam and the Erasmus University Rotterdam. In 1989, he moved to the University of Amsterdam to become associate professor of computer science and full professor in biological image processing. Since 1994, he has been full professor in multimedia information analysis at the Informatics Institute of the University of Amsterdam. In 1987,

he received a Fulbright grant for a visiting associate professorship at Yale University. He was visiting professor at the City University Hong Kong and ETL Tsukuba Japan. He was associated editor of the IEEE transactions PAMI as well as Cytometry.

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Panel Session: New Challenges in Multimedia Research for the Increasingly Connected and Fast Growing Digital Society

This year the MIR workshop will feature a panel, with well-known pioneers and experts in our field. Active participation of the audience is strongly encouraged.

Focused Questions:

- 1. Personal Multimedia Retrieval:** With the widespread of very affordable digital cameras, individuals are generating enormous amount of digital photos. What research problems can be explored to help people better manage, share, and archive their personal pictures?
- 2. Amateur Photography:** Amateur photographers are increasing. Can multimedia research help people enhance their photography skills or make it easier for people to learn from experts or each other?
- 3. Arts:** Can multimedia research help boost public interests in art appreciation and practice through the Internet?
- 4. Online Video Sharing:** Can video or image retrieval better help people search online video sharing sites?
- 5. Social Networks:** Are there new technical demands for multimedia in Internet social networks?

Moderator:

Jia Li (The Pennsylvania State University, USA)

Panelists:

Shih-fu Chang (Columbia University, USA)
Michael Lesk (Rutgers University, USA)
Rainer Lienhart (University of Augsburg, Germany)
Jiebo Luo (Eastman Kodak Research, USA)



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Special Sessions:

The MIR workshop this year will include two special sessions. They were selected from submitted session proposals based on the Call for Special Sessions.

Special Session 1: Semantic Indexing of Consumer and Web Videos

Consumer and Web media presents some of the last frontiers for automated content analysis and indexing, which is needed for managing the explosive amount of user-generated or Web-based media content. Associated information like EXIF metadata or user tags is useful but often insufficient for describing the content shown in the images and videos. Recently, exciting progresses have been seen in developing large benchmark data sets (like TRECVID and ImageClef), ontologies (like LSCOM), and classification models for several domains such as broadcast news. However, solutions suitable for user-generated videos and user-centric usage scenarios are still missing. We see a timely opportunity for organizing a special session to bring together active researchers and practitioners from both academia and industry to share recent progresses and stimulate innovations in this exciting nascent area.

Organizers:

Shih-Fu Chang, Columbia University (USA)
 Dan Ellis, Columbia University (USA)
 Alex Loui, Kodak Research Labs (USA)
 Jiebo Luo, Kodak Research Labs (USA)

Papers:

1. Kodak Consumer Video Benchmark Data Set: Concept Definition and Annotation
 Alexander C. Loui, Jiebo Luo, Shih-Fu Chang, Dan Ellis, Wei Jiang,

Lyndon Kennedy, Keansub Lee, Akira Yanagawa

2. Large-Scale Multimodal Semantic Concept Detection for Consumer Video

Shih-Fu Chang, Dan Ellis, Wei Jiang, Keansub Lee, Akira Yanagawa, Alexander C. Loui, Jiebo Luo

3. Multi-Modal Web Video Categorization

Linjun Yang, Jiemin Liu, Tao Mei, Xiaokang Yang, Xian-Sheng Hua

4. Watch What I Watch: Using Community Activity To Understand Content

David A. Shamma, Ryan Shaw, Peter L. Shafon, Yiming Liu

5. Learning People Annotation from the Web via Consistency Learning

Jay Yagnik, Atiq Islam

6. ITEMS: Intelligent Travel Experience Management System

Chih-Chieh Liu, Chun-Hsiang Huang, Wei-Ta Chu, and Ja-Ling Wu

Special Session 2: Personalized Multimedia Information Retrieval

The explosion of multimedia content in databases, broadcasts, streaming media, etc. has generated new requirements for more effective access to these global information repositories. Content extraction, indexing, and retrieval of multimedia data continue to be one of the most challenging and fastest-growing research areas. A consequence of the growing consumer demand for multimedia information is that sophisticated technology is needed for representing, modeling, indexing, and retrieving multimedia data. In particular, we need robust techniques to index/retrieve and compress multimedia information, new scalable browsing algorithms allowing access to very large multimedia databases, and semantic visual interfaces integrating the above components into unified multimedia browsing and retrieval systems.

Consider the following futuristic scenario:

John Citizen lives in Brussels, holds a degree in economics and works for a multinational company dealing in oil imports. He enjoys travel with emphasis on warm Mediterranean sites with good swimming and fishing. When watching TV his primary interest is international politics, particularly European. During a recent armed conflict he wanted to have different perspectives on the war, including both relevant historical material as well as future projections from commentators.

When he returns home from work, a personalized interactive

multimedia program is ready for him, created automatically from various multimedia segments taken from diverse sources including multimedia news feeds, digital libraries, and collected analyst commentaries. The program includes different perspectives on the events, discussions and analyses appropriate for a university graduate. The video program is production quality, including segment transitions and music. Sections of the program allow him to interactively explore information and knowledge of particular relevance to him, namely the impact of war on oil prices in various countries (his business interest), and the potential impact on tourism and accommodation prices across the Mediterranean next summer. Some presentations may be synchronized with a map display, accessible interactively. John's behavior and dialogue with the display are logged together with a record of the information presented to allow the system to accumulate and update his state of knowledge and discern his interests in order to better serve him in the future. When John is away from home for business or leisure, he can receive the same personalized information on his mobile device, with a focus on information reflecting the neighborhood of his current Mediterranean location.

This vision has many consequences from both societal and economic perspectives. Societal consequences impact on personal information, continuous education, e-government, tourism, leisure, etc. The economic infrastructure of information provision and dissemination will also change, as new actors enter the market (mainly providers of the new services to be offered), and existing actors radically change their mode of operation (for example introducing new paradigm for the production of the TV programs of the future) and business models.

The aim of this special session is to address this hot topic in Multimedia Information Retrieval. We are considering several aspects of this problem. On one hand, the user will want to have a personalized access to his image/video collections and this can be achieved by providing intuitive and natural browsing capabilities and customized features. Furthermore, the system is required to perform user profiling and to adapt the existing parameters of the system to the user needs and interest. On the other hand, it is also important to consider the devices and applications in which this technology is going to be deployed. Mobile media is a high growth area but the state-of-the-art technologies are lagging behind the consumers expectations. The presentations in this session are addressing precisely these three important aspects.

Organizers:

Nicu Sebe, University of Amsterdam (The Netherlands)
Qi Tian, University of Texas at San Antonio (USA)

Papers:

1. Personalized Multimedia Retrieval: The New Trend?
Nicu Sebe, Qi Tian

2. Browsing visual collections using graphs
Marcel Worring, Ork de Rooij and Ton van Rijn

3. Personalized Retrieval of Sports Video
Yifan Zhang, Xiaoyu Zhang, Changsheng Xu, Hanqing Lu

4. Evaluating the Implicit Feedback Models for Adaptive Video Retrieval
Frank Hopfgartner, Joemon Jose

(archived) Call for Special Sessions MIR 2007

ACM Multimedia Information Retrieval (MIR) workshop 2007 will include two special sessions in the technical program. Work included in the special sessions is expected to represent the state-of-the-art and high-impact research directions in multimedia information retrieval.

Each special session will contain 4 - 6 invited papers. The session organizer will be responsible for the selection of these papers. The session may begin with an overview paper on the topic being addressed before the papers with specific technical contributions on the topic.

The following information should be included in the session proposal:

- Title of the proposed session
- Session abstract (state significance of topic and rationale for proposed session)
- Names/affiliation of the organizer(s) (including brief bio and contact info)
- List of invited contributions, each with
 - Author names
 - A tentative title
 - An abstract (500 to 1000 words)

Proposals will be evaluated based on the timeliness of the topic and relevance to MIR, as well as the qualifications of the organizers and quality of the paper abstracts in the proposed session. If a proposal is not accepted, papers in that proposal can still be submitted to the regular sessions by the deadline of June 22, 2007.

The organizers of an accepted special session will be responsible for ensuring the quality of the final papers included in the session as these papers would not otherwise receive peer reviews.

Important Dates

May 1, 2007: Special session proposals due

May 15, 2007: Decisions made on special session proposals

June 25, 2007: Submission of manuscripts to the chair of the special sessions

July 5, 2007: Feedbacks on the manuscripts provided by the chair

July 15, 2007: Final camera-ready manuscripts due

Submission Procedure for Special Sessions

Proposal adhering to the above requirements should be sent by email to Jiebo Luo (jiebo dot luo at kodak.com). All the papers in the special sessions should follow the same style as the regular MIR papers. More details on <http://riemann.ist.psu.edu/mir2007/>

Jiebo Luo

Kodak Research Labs

(Office) +1-585-7227139

(email) jiebo dot luo at kodak.com

(Web) <http://research.kodak.com>

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*In conjunction with [ACM Multimedia 2007](#)
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Presenter Information:

Details can be found on the ACM Multimedia Website [here](#).

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Stefano Berretti, berretti (at) dsi.unifi.it, University of Florence, Italy

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Yixin Chen, ychen (at) cs.olemiss.edu, University of Mississippi, USA

Rita Cucchiara, rita.cucchiara (at) unimo.it, Universit` di Modena e Reggio Emilia, Italy

Mohamed Daoudi, mohamed.daoudi (at) telecom-lille1.eu, GET/Telecom Lille1, LIFL, France

Ajay Divakaran, ajayd (at) merl.com, Mitsubishi Electric Research Laboratories, Cambridge, USA

Ming Dong, mdong (at) cs.wayne.edu, Wayne State University, USA

Jean-Luc Dugelay, Jean-Luc.Dugelay (at) eurecom.fr, EURECOM, France

Pinar Duygulu, duygulu (at) cs.bilkent.edu.tr, Bilkent University, Turkey

Jianping Fan, jfan (at) uncc.edu, UNC-Charlotte, USA

Michael Fleischman, mbf (at) media.mit.edu, MIT Media Lab, USA

Farshad Fotouhi, fotouhi (at) wayne.edu, Wayne State University, USA

George Ioannidis, george.ioannidis (at) tzi.de, University of Bremen, Germany

Ebroul Izquierdo, ebroul.izquierdo (at) elec.qmul.ac.uk, Queen Mary, University of London, UK

Alex Jaimes, Alex.Jaimes (at) idiap.ch, IDIAP Research Institute, Switzerland

Francisco Jose Silva Mata, fjsilvamata (at) gmail.com, CENATAV, Cuba

Mohan Kankanhalli, mohan (at) comp.nus.edu.sg, University of Singapore, Singapore

Igor V. Kozintsev, igor (at) kozintsev.net, Intel Corporation, Architecture Research Lab, USA

Michael S. Lew, mlew (at) liacs.nl, Leiden University, The Netherlands

Kai Li, li (at) princeton.edu, Princeton University, USA

Rainer Lienhart, Rainer.Lienhart (at) informatik.uni-augsburg.de, University of Augsburg, Germany

Jiebo Luo, jiebo.luo (at) kodak.com, Eastman Kodak Company, USA

Mor Naaman, mor (at) yahoo-inc.com, Yahoo! Research Berkeley, USA

Raimondo Schettini, schettini (at) disco.unimib.it, University of Milano, la Bicocca, Italy

Heiko Schuldt, heiko.schuldt (at) unibas.ch, University of Basel, Switzerland

Stan Sclaroff, sclaroff (at) cs.bu.edu, Boston University, USA

Nicu Sebe, nicu (at) science.uva.nl, University of Amsterdam, The Netherlands

Mubarak Shah, shah (at) eeecs.ucf.edu, University of Central Florida, USA

Alan Smeaton, asmeaton (at) computing.dcu.ie, Dublin City University, Ireland

Yongqing Sun, yongqing.sun (at) lab.ntt.co.jp, NTT Cyber Solutions Laboratories, Japan

Tanveer Syeda-Mahmood, stf (at) almaden.ibm.com, IBM Almaden Research Center, USA

Qi Tian, qitian (at) cs.utsa.edu, University of Texas at San Antonio, USA

Nuno Vasconcelos, nuno (at) ucsd.edu, University of California, San Diego, USA

Remco Veltkamp, Remco.Veltkamp (at) cs.uu.nl, Utrecht University, The Netherlands

Marcel Worring, worring (at) science.uva.nl, University of Amsterdam, The Netherlands

Hua Xie, huaxie (at) sipi.usc.edu, NASA JPL, USA

Ruofei Zhang, rzhang (at) yahoo-inc.com, Yahoo! Inc., USA

Zhongfei (Mark) Zhang, zhongfei (at) cs.binghamton.edu, State University of New York at Binghamton, USA



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Registration:

The registration of MIR is handled by ACM Multimedia 2007. If you plan to attend only the MIR workshop, you only need to register for the two-day workshop. Advanced registration deadline is August 15, 2007. **The policy is that each accepted paper must have at least one author registered by the advance registration deadline as a non-student, for the paper to be included in the final conference program and the proceedings.** The main conference site provides **Hotel and Travel information.**

[> Register Now <](#)

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CALL FOR PAPERS

Indexing and retrieval of large quantity of multimedia data is a highly challenging and growingly important research problem for the multimedia research community. Researchers in multimedia, databases, computer vision, machine learning, signal and image processing and statistics have worked on multimedia information retrieval for over a decade. A number of significant technological advances have been achieved in this field. Some of the techniques have been applied to real-world application areas such as art image retrieval, biomedical image and video retrieval, education, sensor networks, large-scale online personal and professional photo sharing communities, classification and filtering of images on the Web, scientific content (remote sensing and biodiversity), computer forensics, threat assessment and security applications more generally. We envision more and more real-world applications of multimedia information retrieval to appear in the coming years. In this workshop, we will bring together active researchers, developers, and practitioners from both academia and the industry to showcase latest technological advances and to discuss future possibilities.

We are soliciting high-quality submissions that: (1) present novel and fresh ideas, (2) question existing paradigms, and/or (3) introduce brave new research directions,

in the following (and other related) topics of interest:

- Content-based indexing, search, and retrieval of multimedia data
- Image, video, audio and 3D models similarity measures
- Summarization and visualization of multimedia data sets
- Indexing and retrieval of streaming audio and video
- Semantic content analysis, classification and annotation, representation and modeling
- Learning and relevance feedback in multimedia retrieval
- User perspectives and user modeling
- Intelligent agents for multimedia indexing and retrieval
- Multimedia query languages, query processing and optimization
- Media mining from semi-structured data (image, 3D models, audio, video and documents)
- Efficient and scalable storage and search techniques
- High performance algorithms for distributed multimedia repositories access
- Tools, benchmarks, and standards
- Emerging query and retrieval models: beyond client and server
- Human computer interaction for multimedia information retrieval systems
- Applications of multimedia information retrieval in the following fields (but not limited to): art and cultural heritages, 3-D imagery, computer security, sports video, surveillance and forensics, medical and health care imagery

Important Dates:

June 22, 2007 Submission deadline

July 9, 2007 Notification of acceptance

July 15, 2007 Camera-ready full paper

The papers should be submitted online. Each paper should be no more than 10 pages prepared in the ACM style and written in acceptable English. All submissions will be peer-reviewed by at least 3 members of the program committee. The workshop proceedings will be printed by ACM and indexed in the ACM Digital Library. A paper submitted to MIR should not have significant overlap with other papers currently being reviewed, accepted, or published by other conferences, workshops, or journals.

Chairs of the Technical Program Committee:

Alberto Del Bimbo

Dipartimento Sistemi e Informatica
University of Florence, Firenze, Italy
(Office) +39-055-4796262
delbimbo@dsi.unifi.it
<http://www.dsi.unifi.it/~delbimbo>

Jia Li

Department of Statistics and (by courtesy) CSE
The Pennsylvania State University, USA
(Office) +1-814-863-3074
jjiali@psu.edu
<http://www.stat.psu.edu/~jjiali>