

Multimodal Information Retrieval and Applications



*A workshop in conjunction with IJCAI
2007*

January 6, 2007



Call for Papers

Intelligent search for digital information is one of the major challenges of Artificial Intelligence. With many sources of information now available such as text, images, audio, video, time series, and sequence data, such a search must truly be multimodal. The search for text, images and video is becoming common in internet search and digital libraries. Search of sequence data such as genome sequences is now prevalent in bioinformatics. Clinical records containing unstructured and structured text along with medical images and video are now being searched in healthcare informatics. Finally, time series data is becoming increasingly prevalent in systems management and financial applications.

The fundamental issues in the design of multimodal information retrieval revolve around fast and robust selection of data containing an answer to a query. This requires developing robust methods of multimodal feature extraction, data representation, organization, query formulation and search. Further, application-specific retrieval may require exploitation of domain knowledge at all stages of multimodal information retrieval.

The purpose of this workshop will be to bring together researchers in content-based retrieval, AI, bioinformatics, database, healthcare and other application communities that are working in multimodal information retrieval. It calls for original, high-quality submissions that address innovative research and development of multimodal information retrieval systems. Topics of interests include but are not limited to:

- Content-based indexing, search, and retrieval of multimodal data.
- Learning and relevance feedback in multimedia retrieval
- Intelligent agents for multimodal indexing and retrieval
- Multimodal query processing and result visualization
- Multi-modal/multi-sensor fusion techniques
- Multi-modal event detection and recognition
- Applications of multimodal retrieval in
 - Bioinformatics
 - Autonomic computing

- Medical imaging in healthcare.
- News video.
- Surveillance
- Multimodal decision support in healthcare
- Digital libraries
- Internet search
- Multimodal database systems and their evaluation.

Audience

This workshop is intended to introduce the AI community to an important and emerging area that is at the confluence of multimedia, databases and life science and healthcare informatics. We expect the audience to be members not only from these communities but also from the core AI community who would like to learn about developments in this field. With this workshop, we would also like to bring computer vision back to AI.

Submission criteria

Papers submitted should not exceed 8 pages in length in 12 point font and should remove any author associations to enable double-blind reviewing. All submissions will be peer-reviewed by at least 3 members of the program committee. The selection of the papers will be based on significance of results, technical merit, relevance and clarity of presentation. Printed as well as electronic proceedings will be made available. Authors should follow the submission guidelines and submit their paper to the workshop website (to be arranged).

Important Dates

Deadline for Submission: **September 25, 2006**
Notification of Acceptance: **October 23, 2006**
Camera-ready Papers due: **November 20, 2006**
Workshop date: **January 6, 2007**

Attendees & Sponsors

Most members of the organizing committee are expected to be attending including the general chair, program chairs, and other members of the organizing committee. Corporate sponsorship can be arranged from IBM, Yahoo and Microsoft, if allowed.

Organizing Committee

General Chair:

Narendra Ahuja, Univ. Illinois, Urbana, USA (ahuja@vision.ai.uiuc.edu)

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