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MDM/KDD2000

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## **Workshop on Multimedia Data Mining**

in conjunction with

### **Sixth ACM SIGKDD International Conference on Knowledge Discovery & Data Mining Boston, MA, USA**

The increasing application of collaborative computing and multimedia document handling in the majority of government, business and educational intranets and internets provides enormous sources of various data, organized in different structures and formats. No wonder researchers in multimedia turned towards the field of data mining and knowledge discovery in databases in the search for techniques for improving the indexing and retrieval of multimedia information. In the beginning, a variety of techniques from machine discovery, statistics, databases, knowledge acquisition, machine learning, data visualization, image analysis, high performance computing, and knowledge-based systems, have been used mainly as a research handcraft activity. The development of multimedia databases and their query interfaces recall again the idea of incorporating data mining methods for dynamic indexing. Recently data mining efforts have focused in less formalized fields of art, design, hypermedia information systems, case-based reasoning and computational modeling of creativity. These and similar fields use variety of data sources, incorporated through sophisticated digital media data structures. As a result there is an urgent need for new techniques and tools that can transform these rich data into useful information and knowledge.

#### **Co-Chairs**

- **Simeon J. Simoff**  
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- **Osmar R. Zaiane**  
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University of Alberta, Canada

#### **Important Dates**

- **May 15:** Submissions Due
- **June 15:** Acceptance Notification
- **July 15:** Camera Ready Copy Due
- **August 20:** Workshop Day

Web Page:

[http://www.cs.ualberta.ca/~zaiane/mdm\\_kdd2000/](http://www.cs.ualberta.ca/~zaiane/mdm_kdd2000/)



The aim of this workshop is to bring together experts in analysis of digital media content, state-of-art data mining and knowledge discovery in multimedia database systems, knowledge engineers and domain experts from different applied disciplines with potential in multimedia data mining. The major topics of the workshop include but are not limited to:

- multimedia data mining methods and algorithms;
- electronic documents - multimedia data representation and reuse of discovered knowledge;
- content-based search, retrieval, and discovery methods;
- uncertainty management in multimedia data mining;
- complexity, efficiency and scalability of multimedia data mining algorithms;
- the incorporation of domain knowledge;
- multimedia data mining and interactive exploration;
- mining and analysis of data generated by virtual reality systems
- data mining of virtual worlds;
- multimedia data visualization and man-machine interfaces;
- integrated data mining of text and image data;
- data analysis of video and audio data;
- representation of discovered knowledge
- active storage for data mining in multimedia.
- mining from unstructured and semi-structured data
- web-content mining
- data mining from XML documents
- mining from GIS

### Program Committee

-Max Bramer, University of Portsmouth, UK  
 -Alex Duffy, University of Strathclyde, UK  
 -Max J. Egenhofer, University of Maine, USA  
 -Tom Gedeon, Murdoch University, Australia  
 -William Grosky, Wayne State University, USA  
 -Howard J. Hamilton, University of Regina, Canada  
 -Jiawei Han, Simon Fraser University, Canada  
 -Odej Kao, Technical University of Clausthal, Germany  
 -Nik Kasabov, University of Otago, New Zealand  
 -Raymond Ng, University of British Columbia, Canada  
 -Timothy K. Shih, Tamkang University, Taiwan  
 -Simeon J. Simoff, University of Sydney, Australia  
 -Jaideep Srivastava, University of Minnesota, USA  
 -Osmar R. Zaiane, University of Alberta, Canada

There is no restriction on the length of submissions.  
 Contact author and email address should be specified.

Peer-reviewed submissions, accepted for presentation at the workshop will be published in the workshop proceedings.

Extended and revised paper-oriented versions of selected submissions will be published in a book by Kluwer Academic Publishers, the same publisher of the Data Mining and Knowledge Discovery journal.

### Paper Submission

Electronic submissions either in paper-oriented PDF, PS, RTF or Microsoft Word Document, or Web-based multimedia format are preferable. Please, e-mail electronic submissions with subject "MDM/KDD2000" to: [simeon@arch.usyd.edu.au](mailto:simeon@arch.usyd.edu.au) or [zaiane@cs.ualberta.ca](mailto:zaiane@cs.ualberta.ca)

Send hardcopies to:

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