

**The 2008 International Symposium on Collaborative Technologies and Systems
(CTS 2008)**

May 19-23, 2008

The Hyatt Regency Irvine
Irvine, California, USA

<http://cisedu.us/cis/cts/08/>



CALL FOR PAPERS

**Workshop on
Collaborative Distributed Knowledge Discovery
(CDKD08)**

Submission Deadline: January 29, 2008

Brief Description:

Knowledge Discovery and Data Mining cannot be considered as a mere application of existing processes and technologies but require highly skilled humans. Collaboration – be it local or remote – offers the potential of improved results by harnessing dispersed expertise and enabling knowledge sharing and learning. In Knowledge Discovery, collaboration is also motivated by different expertise and tools the participants may have, as well as by the distribution of the data to analyze. Distributed organizations collect data in distributed heterogeneous repositories and perform decision making in a distributed fashion. Extracting valuable knowledge from raw data produced by distributed parties presents new issues, such as privacy, ownership, physical allocation of data, availability of resources, which can find a technological solution in collaborative environments for distributed Data Mining.

Technologies and methodologies for collaborative and distributed environments have reached a quite mature stage in general. They are semantic technologies for integration and interoperability of information sources, web services for application interoperability, Computer Supported Cooperative Work environments, and Grid infrastructures. They can be of great help in complex data mining projects: for instance, distributed Data Mining algorithms can help manage distributed heterogeneous data as well as deal with partial information and models. In addition, collaboration tools and platforms can help different geographically dispersed groups to work together on the same data mining problem in a collaborative way. Then, semantic technologies can help data and tool understanding, integration, and composition. Nevertheless, few works consider collaborative and distributed aspects in Knowledge Discovery.

The goal of the workshop is to provide a forum for presentation and discussion of most recent advances and challenges, both emerging and mature ideas, in the methods and techniques for collaborative data mining and knowledge discovery in databases, and to identify the short- and long-term research directions in the field.

Workshop topics include, but are not limited to, the following:

- Computer Supported Collaborative Data Mining
- Human-computer interaction in Data Mining
- Knowledge modeling for communication, information exchange and collaboration in Data Mining
- Support systems for collaborative Data Mining process specification and execution
- Methodologies and Environments for collaborative Data Mining
- Online and Offline Knowledge Discovery
- Data Mining workflow systems
- Versioning management of Data Mining processes and data
- Mining from multiple heterogeneous information sources
- Data integration and fusion
- Annotation of Data Mining processes and data
- Trust, Security and Privacy-aware KDD
- Integration of Data Mining algorithms and models
- Cooperative Learning and cooperative Data Mining algorithms
- Semantic support for collaborative Data Mining
- Social Networking and KDD
- Data Mining techniques for collaborative working
- Data Mining virtual organizations
- Data Mining techniques for collaborative working
- KDD based Decision Making and Policy Support
- Case studies and applications

Submission Instructions:

Papers reporting original and unpublished research results on above and any other related topics are welcome. Submission should include a cover page with authors' names, affiliations, addresses, fax and phone numbers, and email addresses. Please indicate clearly the corresponding author. Include up to 6 keywords from the above list and an abstract of no more than 300 words. Please submit a PDF copy of your full manuscript (not to exceed 8 pages in length in single-space, two-column IEEE Conference style format pages including figures, tables, and references) to diamantini@diiga.univpm.it and malerba@di.uniba.it.

Electronic submissions will be accepted only in PDF format, sent at the email addresses above. Consistent with standard practice, each submitted paper will receive a minimum of three reviews. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Initial selection will be based on full papers. Submission implies the willingness of at least one of the authors to register and present the paper, if accepted. All accepted papers are required to be presented and will be included in the Symposium proceedings. It is our intent to have the proceedings formally published in hard and soft copies and be available at the time of the conference.

Workshop Organizers:

The technical program committee of CDKD 08 is co-chaired by:

Claudia Diamantini

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- Alipio Jorge, University of Porto, Portugal
- Hillol Kargupta, University of Maryland Baltimore County, USA
- Domenico Potena, Università Politecnica delle Marche, Italy
- Justin Zhan, Carnegie Mellon University, USA

Important Dates:

Paper submission Deadline: 29 January 2008
Notification of Acceptance: 11 February 2008
Registration and Camera Ready Manuscript Due: 3 March 2008

For information or questions about the workshop and the paper submission procedure, please contact the Workshop organizers.

For information or questions about Symposium's paper submission, tutorials, exhibits, demos, panel and special sessions organization, please consult the conference web site at URL: <http://cisedu.us/cis/cts/08/> or contact the symposium co-chairs: Bill McQuay at AFRL/RYT, WPAFB, Ohio, USA, (William.McQuay@wpafb.af.mil) or Waleed W. Smari at the Dept. of Electrical and Computer Engineering, University of Dayton, Ohio, USA, (Waleed.Smari@notes.udayton.edu).