

The 1st Workshop on Data Mining of Uncertain Data (DUNE 2007)

In conjunction with the 7th IEEE International Conference on Data Mining (ICDM 2007)

October 28 2007, Embassy Suites Hotel, Omaha, NE, USA

CALL FOR PAPERS

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Workshop Goals

Recently, there is a variety of emerging database applications like location-based services, sensor networks, biological and biometric databases. The vast amount of information generated by these applications can be valuable for data mining purposes. However, these data are often inherently associated with uncertainty like measurement imperfection, sampling error and network latency. These kinds of uncertainty have to be handled carefully, or else the mining results could be inaccurate or even incorrect. The goal of the 1st workshop on Data mining of UNCertain data (DUNE 2007) is to investigate how classical mining models and algorithms can be adapted to deal with uncertain data. We would also like to explore new data mining algorithms that can provide statistical and probabilistic guarantees over data impreciseness. Another open issue is to investigate how data mining algorithms can be beneficial from recent results in the database community, including modeling, indexing, and efficient evaluation of uncertain data.

Topics of Interest

Topics related to the mining issues of uncertain data are of interest. These include, but are not limited to:

- Working models of uncertain data for mining purposes;
- Mining probabilistic databases;
- Mining spatially- and temporally- uncertain data;
- Mining moving-object trajectories;
- Mining biological data with noises;
- Indexing techniques of uncertain data;
- Scalable evaluation of probabilistic queries;
- Data cleansing and error function;
- Identification and similarity matching of uncertain objects;
- Distance between uncertain objects; and
- Mining streams of uncertain data.

Paper Submission

High quality research papers in the relevant areas are solicited. Original papers exploring new directions will receive especially careful consideration. Papers that have already been accepted or are currently under review for other conferences or journals will not be considered for DUNE'07. Paper submissions should be limited to a maximum of 6 pages in the IEEE 2-column format, the same as the camera-ready format (see the IEEE Computer Society Press Proceedings Author Guidelines at <http://www.computer.org/portal/pages/cscps/cps/final/icdm06.xml>). All papers will be reviewed by the Program Committee on the basis of technical quality, relevance to data mining, originality, significance, and clarity. From this year, a double blind review process will be adopted. Authors must hence not use identifying information in the text of the paper and bibliographies must be referenced to preserve anonymity. Please use the Submission Form on the ICDM '07 website to submit your paper. All accepted workshop papers will be included in a proceeding published by the IEEE Computer Society Press.

All paper submissions will be handled electronically. Please submit your work online at http://wi-lab.com/cyberchair/icdm07/scripts/ws_submit.php. For any questions, please email to: dmu07@comp.polyu.edu.hk.

Important Dates

Paper Submission Due: ~~June 22, 2007~~ July 2, 2007

Acceptance Notification: August 1, 2007

Camera Ready: August 17, 2007