



Third International Workshop "Dependability Aspects on Data Warehousing and Mining applications" DAWAM 2008

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in conjunction with The Third International Conference on Availability, Reliability and Security - ARES 2008 (<http://www.ares-conference.eu/>) March 4th – 7th, 2008, Polytechnic University of Catalonia, Barcelona, Spain

Overview

Nowadays, the rapid growth of information technologies has brought tremendous opportunities for data sharing, integration, and analysis across multiple distributed, heterogeneous data sources. In the past decade, data warehousing and mining are the well-known technologies used for data analysis and knowledge discovery in vast domain of applications.

Data mining technology has emerged as a means of identifying patterns and trends from large quantities of data. Data mining has used a data warehousing model of gathering all data into a central site, then running an algorithm against that data.

A growing attention has been paid to the study, development and application of data warehousing and mining. Nevertheless, dependability aspects in these applications such as availability, reliability, integrity, privacy, and security issues are still being investigated. For example, in data warehousing applications, privacy considerations may prevent the approach of collecting data into the centralized warehouse because each data source has different privacy policy. Furthermore, the complexity of security increases as different sources of information are combined. Reliable, consistent and trustworthy of information are also significant requirements in data warehousing applications. Data mining has been shown to be beneficial in confronting various types of attacks to computer systems such as fraud detection, intrusion prevention. In some applications, e.g. clinic information system, government management, business competitive information, it is required to apply the mining algorithms without observing the confidential data values thus demands the privacy preservation. There are also many challenging issues that need further investigation in the context of data mining from both privacy and security perspectives such as mining of imbalanced data, bioinformatics data, streaming data, ubiquitous computing data, grid computing data etc.

The goals of this workshop are to bring together users, engineers and researchers (from industry and academy) alike to present their recent work, discuss and identify problems, synergize different views of techniques and policies, and brainstorm future research directions on various dependability aspects of data warehousing and data mining applications. We strongly encourage researchers and practitioners with interest in the areas of reliability, availability, privacy and security, databases, data warehousing, data mining, and statistics to submit their experience, and/or research results.

Topics related to any of dependability aspects in data warehousing and mining, theory, systems and applications are of interest. These include, but are not limited to the following areas:

- Dependability and fault tolerance
- High Availability and Disaster Recovery
- Survivability of evaluative systems
- Reliability and Robustness Issues
- Accuracy and reliability of responses
- Reliable and Failure Tolerant Business Process Integration
- Reliable Event Management and Data Stream

Processing

- Failure Tolerant and trustworthy Sensor Networks
- Highly available data warehouses for business processes integration
- Handling different or incompatible formats, and erroneous data
- Privacy and security policies and social impact of data mining
- Privacy preserving data integration
- Access control techniques and secure data models
- Encryption & Authentication
- Pseudonymization and Encryption
- Anonymization and pseudonymization

- Trust management, and security
- Security in Aggregation and Generalization
- User Profile Based Security
- Secure multi-party computation
- Secondary use of personal data, clinic data, credit record
- Fraud and misuse detection
- Intrusion detection and tolerance
- Data mining applications for terrorist detection
- Private queries by a (semi-trusted) third party
- Query authentication, logging, auditing, access control and authorization policies

The program of the workshop will be a combination of invited talks, paper/poster presentations and discussions.

Important Dates

Submission Deadline: November, 16th 2007

Author Notification: December, 17th 2007

Author Registration: December, 31st 2007

Proceedings Version: January, 15th 2007

Conference/Workshop: March 10-13th, 2008

Submission Guidelines

Authors are invited to submit research and application papers in IEEE Computer Society Proceedings Manuscripts style (two columns, single-spaced, including figures and references, using 10 fonts, and number each page). You can confirm the IEEE Computer Society Proceedings

Author Guidelines at the following web page:

URL: http://www.ieee.org/portal/cms_docs/pubs/confpubcenter/pdfs/samplems.pdf or
<http://www.icst.org/download/authorskit/ieeetemplate.doc>

Submissions are classified into 2 categories (1) full paper (8 pages) and (2) short paper (5 pages) representing original, previously unpublished work. Submitted papers will be carefully evaluated based on originality, significance, technical soundness, and clarity of exposition.

Duplicate submissions are not allowed. A submission is considered to be a duplicate submission if it is submitted to other conferences/workshops/journals or it has been already accepted to be published in other conferences/workshops/journals. Duplicate submissions thus will be automatically rejected without reviews.

Contact author must provide the following information: paper title, authors' names, affiliations, postal address, phone, fax, and e-mail address of the author(s), about 200-250 word abstract, and about five keywords and register at our ARES website: <http://www.ares-conference.eu/conf/> and select DAWAM workshop submission.

You can also prepare your paper in PDF file and send it to the workshop co-chair: it to the workshop co-chair: Prof. Bhavani Thuraisingham, The University of Texas at Dallas, USA (bhavani.thuraisingham@utdallas.edu) or Dr. Nguyen Manh Tho, Institute of Software Technology, Vienna University of Technology, Austria (tho@ifs.tuwien.ac.at)

Submission of a paper implies that should the paper be accepted, at least one of the authors will register and present the paper in the conference. Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance.

Publication

All accepted papers (full and short papers) will be published as ISBN proceedings published by IEEE Computer Society. Based on quality and referee reviews, some papers not suitable for acceptance as full paper will be accepted for presentation at DAWAM 2008 as short paper or Poster presentation category and will be also included in the IEEE Proceedings.

Like in DAWAM 2007, a selected number of DAWAM 2008 best papers will be nominated to be published as special issues in appropriate journals such as International Journal of Business Intelligence and Data Mining (IJBIDM), Journal of automatic and trusted computing (JoATC).

Workshop Organizer Co-chairs

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