

Workshop on Extraction of Knowledge from Databases and Warehouses

EKDB&W 2005

<http://centria.di.fct.unl.pt/conferences/ekdbw05/>

Part of the

**12th Portuguese Conference on Artificial Intelligence - EPIA 2005,
sponsored by APPIA, the Portuguese Association of AI**

<http://epia05.di.ubi.pt/>

**December 5 - 8, 2005
Covilhã, Portugal**

Workshop Description

During several years there has been a large investment in data collection and storage, both in small businesses and large firms. Data Warehousing provides memory to enterprises but also to industries and scientific domains. Memory of past experiences provides a base for learning, helping to diminish uncertainty and yielding results to support decisions.

In the EKDB&W workshop, both the discussion of technical issues and the presentation of applications will help to increase the experience in the domain of extracting useful and non-trivial information from large databases and data warehouses. The presentations will hopefully bridge the gap between research and practice, improving both. Invitation to industrial partners will help to project the socio-economic importance of AI.

EKDB&W is part of 12th Portuguese Conference on Artificial Intelligence - EPIA 2005, sponsored by APPIA, the Portuguese Association of AI. EKDB&W follows successful workshops EKDB-03, EKDB-01, EKDB-99, EKDB-97. The 2005 edition also intends to serve as a meeting-point for the researchers and professionals working in the areas of EKDB&W, namely in Data Warehousing, Database Marketing, Data Mining, Data Analysis and Decision Support.

The EKDB&W workshop will include a one day scientific presentations and half day case study presentations. The scientific presentations may include invited talks and paper presentations. Conference will be divided in thematic sessions. The case study session may include presentations made by: IBM, Oracle, Microsoft, SAS, SPSS, STATISTICA and Novabase. A poster session will be available in parallel with case studies presentations.

The workshop objective is to present methods for non-trivial extraction of information, implicit in the existing data. The following techniques may be included:

Metadata for Data Warehouse and Data Mining	Bayesian networks
ETL-Extracting Transforming and Loading	Kernel methods
Data Cleaning	Multi-strategy learning
Data Reduction Techniques	Reinforcement learning
Temporal Knowledge Extraction	Unsupervised learning
Statistical Methods	Association Rules
Machine Learning	Incremental and Online Learning
Neural Networks	Learning from semi-structured data.

EKDB&W plays a key role in many areas of science, business and industry. EKDB&W applications may help to illustrate the utility of these techniques in areas such as:

- Environmental sciences
- Space Environment applications
- Geo-Spatial Data Processing
- Extracting knowledge from semi-structured data
- Marketing Research
- Civil Engineering
- Oil and mineral industries
- Image processing
- User profile modeling
- Database Marketing
- Web usage Mining
- Web Farming
- Segmentation
- Prediction

Important Dates

Full Paper: 27 May 2005

Extended Abstracts for Presentation and Posters: 24 June 2005

Full Paper Author Notification: 15 July 2005

Extended Abstract Author Notification: 28 July 2005

Full Paper Deadline for Final Camera-Ready Copies: 28 July 2005

Extended Abstract Deadline for Final Camera-Ready Copies: 8 September 2005

Paper Submission and Reviewing Process

Authors are invited to submit original research contributions or experience reports in English. Scientific or technical articles describing state-of-the-art techniques, algorithms, systems, environments, problems or applications relevant to the general area Extraction of Knowledge from Databases and Warehouses may be submitted.

Three types of submissions will be considered: full papers, extended abstracts for oral presentations and posters. The poster session will be held for applications, prototype presentations and other relevant works.

The length of submitted full papers may vary from 6 to 12 pages. Presentations and Poster extended abstracts should be up to 4 pages. Authors must prepare their submissions in PDF format according to the instructions given by Springer-Verlag (<http://www.springer.de/comp/lncs/authors.htm/>). More information can be find on the website of the Conference under the submission menu.

Submissions will be made by electronic means, through the submission page available in the EPIA 2005 website.

At least two program committee members with recognized expertise in described field will review each submission.

In order to make blind reviewing possible, submissions must be anonymous. This requires that authors exercise some care not to identify themselves in their contributions. When referring to one's own work, authors must use the third person rather than the first person. References should include all published literature relevant to the paper, including previous works of the authors but it should not include unpublished works.

In order to have papers published at least one of the authors should be registered in the EPIA Conference.

Workshop high quality full papers will be selected for publication in the main volume of conference proceedings, to be published by Springer, in the LNAI series. Good quality papers not selected for publication in the main volume conference proceedings and selected extended abstracts will be published in local workshop proceedings, in hard-copy, in CD-ROM and in the web.

Organizing Committee

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