



The 5th International Workshop on Knowledge Discovery in Inductive Databases September 18th, 2006, Berlin, Germany

In conjunction with ECML/PKDD 2006

<http://www.cs.kuleuven.be/~dtai/KDID06>

Important Dates

Submission: July 7
Notification: August 1
Camera-ready: August 16
Workshop: September 18

Proceedings

Refereed post-workshop proceedings will be published by Springer in the Lecture Notes in Computer Science (LNCS) series.



Workshop Chairs

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About the Workshop

Inductive databases (IDBs) represent a database view on data mining and knowledge discovery. IDBs contain not only data, but also generalizations (patterns and models) valid in the data. In an IDB, ordinary queries can be used to access and manipulate data, while inductive queries can be used to generate (mine), manipulate, and apply patterns. In the IDB framework, patterns become "first-class citizens" and KDD becomes an extended querying process in which both the data and the patterns/models that hold in the data are queried.

The IDB framework is appealing as a general framework for data mining, because it employs declarative queries instead of ad-hoc procedural constructs. As declarative queries are often formulated using constraints, inductive querying is closely related to constraint-based data mining. The IDB framework is also appealing for data mining applications, as it supports the entire KDD process, i.e., nontrivial multi-step KDD scenarios, rather than just individual data mining operations.

The goal of the KDID workshop is to bring together database and data mining researchers interested in the areas of inductive databases, inductive queries, constraint-based data mining, and data mining query languages.

Previous editions of the workshop are KDID'05 held in Porto, Portugal, KDID'04 held in Pisa, Italy, KDID'03 held in Cavtat-Dubrovnik, Croatia, and KDID'02 held in Helsinki, Finland.

Topics of Interest (Non-exhaustive List)

Models and theories of inductive databases
Query languages for data mining
Constraint-based data mining
Pattern languages and primitives for data mining
Efficient search algorithms for constraint-based mining
Declarative bias formalisms in machine learning
Local patterns detection
Condensed representations of data and patterns
Database support, coupling and primitives for data mining
Coupling of database and data mining systems
Integration of database languages such as SQL and XML with data mining
Specific and application-oriented inductive databases

Submission Guidelines

Full papers must be submitted electronically to kdid@cs.kuleuven.be on or before July 7, 2006. Authors are required to submit a version of their full papers in camera-ready format. The papers must be in English and should be formatted according to the Springer Lecture Notes in Computer Science guidelines. The maximum length of papers is 12 pages. We encourage the submission of papers which present early stages of research, software, and applications. To encourage discussion, we also welcome the submission of position statements (up to 4 pages long). Further details can be found on the workshop website.