<<Database Support for>>

<<Database Support for Data Mining Applications   >>

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Data mining from traditional relational databases as well as from non-traditional ones such as semi-structured data, Web data, and scientific databases housing biological, linguistic, and sensor data has recently become a popular way of discovering hidden knowledge.   This book on database support for data mining is developed to approaches exploiting the available database technology, declarative data mining, intelligent querying, and associated issues, such as optimization, indexing, query processing, languages, and constraints. Attention is also paid to the solution of data preprocessing problems, such as data cleaning, discretization, and sampling.   The 16 reviewed full papers presented were carefully selected from various workshops and conferences to provide complete and competent coverage of the core issues. Some papers were developed within an EC funded project on discovering knowledge with inductive queries.

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I Database Languages and Query Execution   Inductive Databases and Multiple Uses of Frequent Itemsets: the cINQ   Approach   Query Languages Supporting Descriptive Rule Mining: A Comparative   Study   Declarative Data Mining Using SQL3   Towards a Logic Query Language for Data Mining   A Data Mining Query Language for Knowledge Discovery in a   Towards Query Evaluation in Inductive Databases Using Version Spaces   The GUHA Method, Data Preprocessing and Mining   Constraint Based Mining of First Order Sequences in SeqLogII   Support for KDD-Process   Interactivity, Scalability and Resource Control for Efficient KDD   Support in DBMS   Frequent Itemset Discovery with SQL Using Universal Quantification   Deducing Bounds on the Support of Itemsets   Model-Independent Bounding Of the Supports of Boolean Formulae in   Binary Data   Condensed Representations for Sets of Mining Queries   One-Sided Instance-Based Boundary Sets   Domain tructures in Filtering irrelevant Frequent Patterns   Integrity Constraints over Association RulesAuthor Index

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