

Deductive Databases and Logic Programming (International Series in Logic Programming)

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Deductive Databases And Logic Programming

Chopra Rajiv



Deductive Databases And Logic Programming:

Foundations of Deductive Databases and Logic Programming Jack Minker, 2014-05-12 Foundations of Deductive Databases and Logic Programming focuses on the foundational issues concerning deductive databases and logic programming. The selection first elaborates on negation in logic programming and towards a theory of declarative knowledge. Discussions focus on model theory of stratified programs, fixed point theory of nonmonotonic operators, stratified programs semantics for negation in terms of special classes of models, relation between closed world assumption and the completed database, negation as a failure and closed world assumption. The book then takes a look at negation as failure using tight derivations for general logic programs, declarative semantics of logic programs with negation and declarative semantics of deductive databases and logic programs. The publication tackles converting AND control to OR control by program transformation, optimizing dialog, equivalences of logic programs, unification and logic programming and parallel complexity. Topics include parallelism and structured and unstructured data, parallel algorithms and complexity, solving equations, most general unifiers, systems of equations and inequations, equivalences of logic programs and optimizing recursive programs. The selection is a valuable source of data for researchers interested in pursuing further studies on the foundations of deductive databases and logic programming.

Deductive Databases and Logic Programming Subrata Kumar Das, 1992-01 This book provides a clear account of the next generation database technology illustrating how to reduce additional information from databases by applying deductive rules. The book first takes readers step by step through the basics of logic and logic programming and then surveys developments in deductive databases.

Deductive Databases and Logic Programming Jack Minker, 1988

Foundations of deductive databases and logic programming Jack Minker, 1986

Deductive Databases and Logic Programming, 1997

Logics for Databases and Information Systems Jan Chomicki, Gunter Saake, 2012-12-06 Time is ubiquitous in information systems. Almost every enterprise faces the problem of its data becoming out of date. However, such data is often valuable so it should be archived and some means to access it should be provided. Also, some data may be inherently historical, e.g., medical, cadastral, or judicial records. Temporal databases provide a uniform and systematic way of dealing with historical data. Many languages have been proposed for temporal databases; among others, temporal logic. Temporal logic combines abstract formal semantics with the amenability to efficient implementation. This chapter shows how temporal logic can be used in temporal database applications. Rather than presenting new results, we report on recent developments and survey the field in a systematic way using a unified formal framework. GHR94 Ch094 The handbook GHR94 is a comprehensive reference on mathematical foundations of temporal logic. In this chapter, we study how temporal logic is used as a query and integrity constraint language. Consequently, model theoretic notions, particularly formula satisfaction, are of primary interest. Axiomatic systems and proof methods for temporal logic. GHR94 have found so far relatively few applications in the context of information systems. Moreover, one needs to bear in mind that for the standard

linearly ordered time domains temporal logic is not recursively axiomatizable GHR94 so recursive axiomatizations are by necessity incomplete

Transactions and Change in Logic Databases Burkhard Freitag, 1998-10-28 This book constitutes the thoroughly refereed and revised post workshop proceedings of two international meetings devoted to deductive databases and logic programming The technical papers presenting original research results were carefully reviewed and selected for inclusion in the present book together with several survey articles summarizing the state of the art in the area Thus the book is the ultimate reference for anybody interested in the theory and application of deductive databases and logic programming

Logic Programming and Databases Stefano Ceri, Georg Gottlob, Letizia Tanca, 2012-12-06 The topic of logic programming and databases has gained in increasing interest in recent years Several events have marked the rapid evolution of this field the selection by the Japanese Fifth Generation Project of Prolog and of the relational data model as the basis for the development of new machine architectures the focusing of research in database theory on logic queries and on recursive query processing and the pragmatic application oriented development of expert database systems and of knowledge base systems As a result an enormous amount of work has been produced in the recent literature coupled with the spontaneous growth of several advanced projects in this area The goal of this book is to present a systematic overview of a rapidly evolving discipline which is presently not described with the same approach in other books We intend to introduce students and researchers to this new discipline thus we use a plain tutorial style and complement the description of algorithms with examples and exercises We attempt to achieve a balance between theoretical foundations and technological issues thus we present a careful introduction to the new language Datalog but we also focus on the efficient interfacing of logic programming formalisms such as Prolog and Datalog with large databases

LOGIDATA+: Deductive Databases with Complex Objects Paolo Atzeni, 1993-07-29 This book presents a collection of coordinated scientific papers describing the work conducted and the results achieved within the LOGIDATA project a research action funded by the Italian national research council CNR The aim of the LOGIDATA project is the definition of advanced database systems which significantly extend the functionalities of the current systems with specific reference to the application areas for which relational systems are not considered satisfactory These new systems will allow the definition of data with complex structures the representation of semantic relationships between objects and the use of powerful query and update languages They will be based on a combination of techniques originating from relational databases and logic programming with contributions from object oriented programming The goal of the LOGIDATA project is the design definition and prototype implementation of a database management system with complex structures and a class hierarchy to be accessed through a rule based language This book presents an integrated view of the project at the end of the first phase The second phase will be mainly concerned with the implementation of prototypes

Deductive Databases and Logic Programming Hendrik Decker, 1995 *Deductive and Object-oriented Databases* C. Delobel, Michael

Kifer, Yoshifumi Masunaga, 1991 This volume is the proceedings of the Second International Conference on Deductive and Object Oriented Databases DOOD During the last decade deductive and object oriented systems have received a great deal of attention but for the most part these two fields were evolving independently of each other Today there is a large body of work suggesting that the deductive and object oriented paradigms complement each other The object oriented paradigm is characterized by its view of the data whereby information is grouped around objects with complex internal structure accessed via methods The declarative paradigm is centered around the idea that data manipulation must be done through a declarative logic based language It is hoped that these two aspects brought together in one system will provide an integrated framework for a new database technology The DOOD conference brings together researchers and developers in the fields of deductive and object oriented databases to stimulate technical discussion and accelerate the integration of the two technologies This volume contains 28 contributed papers selected from 98 submissions and two invited papers by world renowned researchers

Deductive and Object-Oriented Databases Stefano Ceri, Katsumi Tanaka, Shalom Tsur, 1993-11-16 This volume contains the proceedings of the Third International Conference on Deductive and Object Oriented Databases Its central tenet is that the object oriented and deductive paradigms for modeling organizing and processing data complement each other rather than competing and that problems involving massive volumes of complex data can best be solved by integrating the best of both approaches Central questions in the area are How do we design a tool that presents the best of the object oriented and declarative ideas How can the users of this tool express their problems in a combination of declarative and procedural features The volume includes 29 papers that contribute towards answering these questions

Transactions and Change in Logic Databases Burkhard Freitag, Hendrik Decker, Michael Kifer, 2014-09-11 **Logic Programming in Action** Gerard Comyn, Norbert E. Fuchs, 1992-08-25 Logic programming enjoys a privileged position It is firmly rooted in mathematical logic yet it is also immensely practical as a growing number of users in universities research institutes and industry are realizing Logic programming languages specifically Prolog have turned out to be ideal as prototyping and application development languages This volume presents the proceedings of the Second Logic Programming Summer School LPSS 92 The First Logic Programming Summer School LPSS 90 addressed the theoretical foundations of logic programming This volume focuses on the relationship between theory and practice and on practical applications The introduction to the volume is by R Kowalski one of the pioneers in the field The following papers are organized into sections on constraint logic programming deductive databases and expert systems processing of natural and formal languages software engineering and education

Deductive Databases and Logic Programming GMD. Forschungszentrum Informationstechnik, 1996 **Applications of Logic Databases** Raghu Ramakrishnan, 2012-12-06 The premise behind developing powerful declarative database languages is compelling by enabling users to specify their queries and their integrity constraints in a clear non operational way they make the user's task easier and provide the database system with

more opportunities for optimization Relational database systems offer a striking proof that this premise is indeed valid The most popular relational query language SQL is based upon relational algebra and calculus i e a small fragment of first order logic and the ease of writing queries in SQL in comparison to more navigational languages has been an important factor in the commercial success of relational databases It is well known that SQL has some important limitations in spite of its success and popularity Notably the query language is non recursive and support for integrity constraints is limited Indeed recognizing these problems the latest standard SQL 92 provides increased support for integrity constraints and it is anticipated that the successor to the SQL 92 standard called SQL3 RECURSIVE UNION operation 1 Logic database systems have will include a concentrated on these extensions to the relational database paradigm and some systems e g Bull s DEL prototype have even incorporated object oriented features another extension likely to appear in SQL3

The Deductive Foundations of Computer Programming Zohar Manna, Richard Waldinger, 1993-01-01 This work provides a most readable introduction to the logical concepts and techniques underlying computer programming

Deductive and Object-Oriented Databases Francois Bry, Raghu Ramakrishnan, Kotagiri Ramamohanarao, 1997-11-12 This book constitutes the refereed proceedings of the 5th International Conference on Deductive and Object Oriented Databases DOOD 97 held in Montreux Switzerland in December 1997 The 22 revised full papers presented in this book were selected from a total of 59 submissions Also included are abstracts or full versions of three invited talks and three tutorials and six short presentations The papers are organized in topical sections on materialized view maintenance extending DBMs features database updates managing change in object databases semantics of active databases formal semantics and new directions

Deductive Databases and Logic Programming - Abduction in Deductive Databases and Knowledge-based Systems Hendrik Decker, 1995

Logic Programming Michael Maher, 1996 Includes tutorials invited lectures and refereed papers on all aspects of logic programming including Constraints Concurrency and Parallelism Deductive Databases Implementations Meta and Higher order Programming Theory and Semantic Analysis September 2 6 1996 Bonn Germany Every four years the two major international scientific conferences on logic programming merge in one joint event JICSLP 96 is the thirteenth in the two series of annual conferences sponsored by The Association for Logic Programming It includes tutorials invited lectures and refereed papers on all aspects of logic programming including Constraints Concurrency and Parallelism Deductive Databases Implementations Meta and Higher order Programming Theory and Semantic Analysis The contributors are international with strong contingents from the United States United Kingdom France and Japan Logic Programming series Research Reports and Notes

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