

# **LOGICS FOR DATABASES AND INFORMATION SYSTEMS**

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# Logics For Databases And Information Systems

**Gerald Quirchmayr, Erich  
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## **Logics For Databases And Information Systems:**

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 Almost every enterprise faces the problem of its data becoming out of date.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 for model 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. *Logics for Emerging Applications of Databases* Jan Chomicki, Ron van der Meyden, Gunter Saake, 2011-06-28 In this era of heterogeneous and distributed data sources ranging from semistructured documents to knowledge about coordination processes or workflows, logic provides a rich set of tools and techniques with which to address the questions of how to represent query and reason about complex data. This book provides a state-of-the-art overview of research on the application of logic-based methods to information systems, covering highly topical and emerging fields: XML programming and querying, intelligent agents, workflow modeling and verification, data integration, temporal and dynamic information, data mining, authorization and security. It provides both scientists and graduate students with a wealth of material and references for their own research and education.

**Logic in Databases** Dino Pedreschi, Carlo Zaniolo, 1996-10-02 This book constitutes the strictly refereed post-workshop proceedings of the International Workshop on Logic in Databases LID 96 held in San Miniato, Italy, in July 1996 as the final meeting of an EC-US cooperative activity. The volume presents 21 revised full papers selected from 49 submissions, as well as 3 invited contributions and a summary of a panel discussion on deductive databases: challenges, opportunities, and future directions. The retrospective survey on logic and databases by Jack Minker deserves a special mention; it is a 56-page overview and lists 357 references. The papers are organized in sections on uncertainty, temporal and spatial reasoning, updates, active databases, semantics, advanced applications, query evaluation, language extensions, and logic constructs and expressive power. *Logic Programming and Databases* Stefano Ceri, Georg Gottlob, Letizia Tanca, 2012-12-06 The topic of logic programming and databases has gained 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

#### Database and Expert Systems

Applications Mohamed Ibrahim, Josef Küng, Norman Revell, 2000-08-25 This book constitutes the refereed proceedings of the 11th International Conference on Database and Expert Systems Applications DEXA 2000 held in London in September 2000 The 92 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 183 submissions The book offers topical sections on object oriented and relational databases multimedia databases fundamentals workflow management systems database security XML advanced databases queries knowledge based systems data warehouses database design and analysis data mining and knowledge discovery web database systems indexing and distributed database systems

**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

**Database and Expert Systems Applications** A Min Tjoa, Isidro Ramos, 2012-12-06 The Database and Expert Systems Application DEXA conferences are mainly oriented to establish a state of the art forum on Database and Expert System applications But Practice without Theory has no sense as Leonardo said five centuries ago In this Conference we try a compromise between these two complementary aspects A total of 5 sessions are application oriented ranging from classical applications to more unusual ones in Software Engineering Recent research aspects in Databases such as activity deductivity and or Object Orientation are also present in DEXA 92 as well as the implication of the new data models such as OO Model Deductive Model etc included in the Modelling sessions Other areas of interest such as Hyper Text and Multimedia application together with the classical field of Information Retrieval are also considered Finally Implementation Aspects are reflected in very concrete fields A total of of nearly 200 papers submitted from all over the world

were sent to DEXA 92 Only 90 could be accepted A Poster session has also been established DEXA 90 was held in Vienna Austria DEXA 91 in Berlin Germany and DEXA 92 will take place in Valencia Spain where we are celebrating the discovery of the New World just five centuries ago in Leonardo's age Both the quality of the Conference and the compromise between Practice and Theory are due to the credit of all the DEXA 92 authors

**Knowledge-Based Software Engineering** M. Virvou, T. Nakamura, 2008-08-15 The papers in this publication address many topics in the context of knowledge based software engineering including new challenges that have arisen in this demanding area of research Topics in this book are knowledge based requirements engineering domain analysis and modeling development processes for knowledge based applications knowledge acquisition software tools assisting the development architectures for knowledge based systems and shells including intelligent agents intelligent user interfaces and human machine interaction development of multi modal interfaces knowledge technologies for semantic web internet based interactive applications knowledge engineering for process management and project management methodology and tools for knowledge discovery and data mining knowledge based methods and tools for testing verification and validation maintenance and evolution decision support methods for software engineering and cognitive systems knowledge management for business processes workflows and enterprise modeling program understanding programming knowledge modeling programs and programmers and software engineering methods for intelligent tutoring systems

**Computational Logic: Logic Programming and Beyond** Antonis C. Kakas, Fariba Sadri, 2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d'être The diversity of interests covered here reflects the variety of Bob's concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half dozen years that Bob was a leading member of Bernard's group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language

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.

Enterprise Information Systems: Contemporary Trends And Issues David L Olson, Subodh Kesharwani, 2009-10-28 This book analyzes various aspects of enterprise information systems EIS including enterprise resource planning customer relationship management supply chain management systems and business process reengineering. It describes the evolution and functions of these systems focusing on issues related to their implementation and upgrading. Enhanced with pedagogical features the book can be read by graduate and undergraduate students as well as senior management and executives involved in the study and evaluation of EIS.

**Computational Logic**  
**— CL 2000** John Lloyd, Veronica Dahl, Ulrich Furbach, Manfred Kerber, Kung-Kiu Lau, Catuscia Palamidessi, Luis M. Pereira, Yehoshua Sagiv, Peter J. Stuckey, 2003-06-26 These are the proceedings of the First International Conference on Computational Logic CL 2000 which was held at Imperial College in London from 24th to 28th July 2000. The theme of the conference covered all aspects of the theory implementation and application of computational logic where computational logic is to be understood broadly as the use of logic in computer science. The conference was colocated with the following events: 6th International Conference on Rules and Objects in Databases DOOD 2000, 10th International Workshop on Logic based Program Synthesis and Transformation LOPSTR 2000, 10th International Conference on Inductive Logic Programming ILP 2000. CL 2000 consisted of seven streams: Program Development, LOPSTR 2000, Logic Programming Theory and Extensions, Constraints, Automated Deduction, Putting Theory into Practice, Knowledge Representation and Non monotonic Reasoning, Database Systems. DOOD 2000, Logic Programming Implementations and Applications. The LOPSTR 2000 workshop constituted the program development stream and the DOOD 2000 conference constituted the database systems stream. Each stream had its own chair and program committee which autonomously selected the papers in the area of the stream. Overall 176 papers were submitted of which 86 were selected to be presented at the conference and appear in these proceedings. The acceptance rate was uniform across the streams. In addition LOPSTR 2000 accepted about 15 extended abstracts to be presented at the conference in the program development stream.

*Logic for Programming, Artificial Intelligence, and Reasoning* Robert Nieuwenhuis, Andrei Voronkov, 2003-06-30 This volume contains the papers presented at the Eighth International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2001 held on December 3-7 2001 at the University of Havana, Cuba together with the Second International Workshop on Implementation of

Logics There were 112 submissions of which 19 belonged to the special submission category of experimental papers intended to describe implementations or comparisons of systems or experiments with systems Each submission was viewed by at least three program committee members and an electronic program committee meeting was held via the Internet The high number of submissions caused a large amount of work and we are very grateful to the other 31 PC members for their efficiency and for the quality of their reviews and discussions Finally the committee decided to accept 40 papers in the theoretical category and 9 experimental papers In addition to the refereed papers this volume contains an extended abstract of the invited talk by Frank Wolter Two other invited lectures were given by Matthias Baaz and Manuel Hermenegildo Apart from the program committee we would also like to thank the other people who made LPAR 2001 possible the additional referees the Local Arrangements Chair Luciano Garcia and Andres Navarro and Oscar Guell who ran the internet based submission software and the program committee discussion software at the LSI Department lab in Barcelona and Bill McCune whose program committee management software was used

A 25-Year Perspective on Logic Programming Agostino Dovier, Enrico Pontelli, 2010-06-30 This book celebrates the 25th anniversary of GULP the Italian Association for Logic Programming Authored by Italian researchers at the leading edge of their fields it presents an up to date survey of a broad collection of topics in logic programming making it a useful reference for both researchers and students During its 25 year existence GULP has organised a wide range of national and international activities including both conferences and summer schools It has been especially active in supporting and encouraging young researchers by providing scholarships for GULP events and awarding distinguished dissertations We in the international logic programming community look upon GULP with a combination of envy admiration and gratitude We are pleased to attend its conferences and summer schools where we can learn about scientific advances catch up with old friends and meet young students It is an honour for me to acknowledge our appreciation to GULP for its outstanding contributions to our field and to express our best wishes for its continuing prosperity in the future March 2010 Robert Kowalski Imperial College London Preface On June 18 1985 a group of pioneering researchers including representatives from industry national research labs and academia attended the constituent assembly of the Group of researchers and Users of Logic Programming GULP association That was the starting point of a long adventure in science that 1 we are still experiencing 25 years later This volume celebrates this important event

Advances in Databases and Information Systems Yannis Manolopoulos, Jaroslav Pokorný, Timos Sellis, 2006-08-29 This book constitutes the refereed proceedings of the 10th East European Conference on Advances in Databases and Information Systems ADBIS 2006 The book presents 29 high quality papers selected in a rigorous reviewing process The papers address a wide range of hot research issues and are organized in topical sections on XML databases and semantic web web information systems and middleware query processing and indexing modelling and design issues and more

*Logic Programming* I. Balbin, K. Lecot, 2012-12-06 Logic Programming was effectively defined as a discipline in the early seventies It is only during the early

to mid eighties that books conferences and journals devoted entirely to Logic Programming began to appear Consequently much of the work done during this first crucial decade in Marseilles Edinburgh London Budapest and Stockholm to name a few is often overlooked or difficult to trace There are now two main regular conferences on Logic Programming and at least five journals The Journal of Logic Programming New Generation Computing Automated Reasoning The Journal of Symbolic Computation and Future Generation Computer Systems Logic Programming however has its roots in Automated Theorem Proving and via the expanding area of expert systems strongly influences researchers in such varied fields as Civil Engineering Chemistry Law etc Consequently many papers related to Logic Programming appear in a wide variety of journals and proceedings of conferences in other disciplines This is particularly true of Computer Science where a revolution is taking place in hardware design programming languages and more recently databases One cannot overestimate the importance of such a bibliography

**Computational Logic** Dov M. Gabbay, Jörg H. Siekmann, John Woods, 2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic

Database Schema Evolution and Meta-Modeling Herman Balsters, Bert de Brock, Stefan Conrad, 2003-06-29 The Ninth International Workshop on Foundations of Models and Languages for Data and Objects FoMLaDO took place in Dagstuhl Germany Sept ber 18 21 2000 The topic of this workshop was Database schema Evolution



and Meta Modeling this FoMLaDO Workshop was hence assigned the acronym DEMM 2000 These post proceedings contain the revised versions of the accepted papers of the DEMM 2000 workshop Twelve regular papers were accepted for inclusion in the proceedings The papers address the following issues Consistency of evolving concurrent information systems Adaptive specifications of technical information systems Change propagation in schema evolution of object based systems Evolving software of a schema evolution system Logical characterization of schema evolution Conflict management in integrated databases Evolving relation schemas Conceptual descriptions of adaptive information systems OQL extensions for metadata access Metamodeling of schema evolution Metrics for conceptual schema evolution Incremental datawarehouse construction In addition to the regular papers there is an invited paper by Can Turker on schema evolution in SQL99 and object relational databases Acknowledgements We wish to thank the program committee members for their work on reviewing the submitted papers We also wish to thank all authors for submitting papers to this workshop Moreover all participants of the workshop are thanked for contributing to lively discussions Thanks also to Elke Rundensteiner who delivered an invited talk on the SERF project concerning extensible database transformations

**Artificial Intelligence in Databases and Information Systems (DS-3)** R. Meersman, Zhongzhi Shi, Chen-Ho Kung, 1990 This third volume on Database Semantics looks at the link between Artificial Intelligence and Databases Information Systems Database Information System design implementation and operation is a complex problem solving task where expert knowledge is needed Use of Artificial Intelligence techniques and principles may help to acquire represent and manipulate this knowledge resulting in the enrichment of database semantics

*Database and Expert Systems Applications* Gerald Quirchmayr, Erich Schweighofer, Trevor J.M. Bench-Capon, 1998-08-14 This book constitutes the refereed proceedings of the 9th International Conference on Database and Expert Systems Applications DEXA 98 held in Vienna Austria in August 1998 The 81 revised full papers presented were carefully selected from a total of more than 200 submissions The papers are organized in sections on active databases object oriented systems data engineering information retrieval workflow and cooperative systems spatial and temporal aspects document management spatial databases adaptation and view updates genetic algorithms cooperative and distributed environments interaction and communication transaction advanced applications temporal aspects oriented systems partitioning and fragmentation database queries data data warehouses knowledge discovery and data mining knowledge extraction and knowledge base reduction for comprehension and reuse

## The Enigmatic Realm of **Logics For Databases And Information Systems**: Unleashing the Language is Inner Magic

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### **Table of Contents Logics For Databases And Information Systems**

1. Understanding the eBook Logics For Databases And Information Systems
  - The Rise of Digital Reading Logics For Databases And Information Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying Logics For Databases And Information Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Logics For Databases And Information Systems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Logics For Databases And Information Systems
  - Personalized Recommendations
  - Logics For Databases And Information Systems User Reviews and Ratings
  - Logics For Databases And Information Systems and Bestseller Lists

5. Accessing Logics For Databases And Information Systems Free and Paid eBooks
  - Logics For Databases And Information Systems Public Domain eBooks
  - Logics For Databases And Information Systems eBook Subscription Services
  - Logics For Databases And Information Systems Budget-Friendly Options
6. Navigating Logics For Databases And Information Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - Logics For Databases And Information Systems Compatibility with Devices
  - Logics For Databases And Information Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Logics For Databases And Information Systems
  - Highlighting and Note-Taking Logics For Databases And Information Systems
  - Interactive Elements Logics For Databases And Information Systems
8. Staying Engaged with Logics For Databases And Information Systems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Logics For Databases And Information Systems
9. Balancing eBooks and Physical Books Logics For Databases And Information Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Logics For Databases And Information Systems
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Logics For Databases And Information Systems
  - Setting Reading Goals Logics For Databases And Information Systems
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Logics For Databases And Information Systems
  - Fact-Checking eBook Content of Logics For Databases And Information Systems
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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