

Constraint Databases

- Next level of data abstraction:

Constraint level – finitely represents
by constraints
the logical level

Constraint Databases

**Gabriel Kuper, Leonid Libkin, Jan
Paredaens**



Constraint Databases:

Constraint Databases and Applications Bart Kuijpers, Peter Revesz, 2004-10-14 The first International Symposium on the Applications of Constraint Databases CDB2004 took place in Paris France on June 12-13 2004 just before the ACM SIGMOD and PODS conferences Since the publication of the paper Constraint Query Languages by Kanakis Kuper and Revesz in 1990 the last decade has seen a growing interest in constraint database theory query evaluation and applications reflected in a variety of conferences journals and books Constraint databases have proven to be extremely flexible and adoptable in environments that relational database systems cannot serve well such as geographic information systems and bioinformatics This symposium brought together people from several diverse areas all contributing to the practice and the application of constraint databases It was a continuation and extension of previous workshops held in Friedrichshafen Germany 1995 Cambridge USA 1996 Delphi Greece 1997 and Seattle USA 1998 as well as of the work in the comprehensive volume Constraint Databases edited by G Kuper L Libkin and J Paredaens 2000 and the textbook Introduction to Constraint Databases by P Revesz 2002 The aim of the symposium was to open new and future directions in constraint database research to address constraints over domains other than the reals to contribute to a better implementation of constraint database systems in particular of query evaluation to address efficient quantifier elimination and to describe applications of constraint databases

Constraint Databases Gabriel Kuper, Leonid Libkin, Jan Paredaens, 2013-03-09 This book is the first comprehensive survey of the field of constraint databases Constraint databases are a fairly new and active area of database research The key idea is that constraints such as linear or polynomial equations are used to represent large or even infinite sets in a compact way The ability to deal with infinite sets makes constraint databases particularly promising as a technology for integrating spatial and temporal data with standard relational databases Constraint databases bring techniques from a variety of fields such as logic and model theory algebraic and computational geometry as well as symbolic computation to the design and analysis of data models and query languages The book is a collaborative effort involving many authors who have contributed chapters on their fields of expertise Despite this the book is designed to be read as a whole as opposed to a collection of individual surveys In particular the terminology and the style of presentation have been standardized and there are multiple cross references between the chapters The idea of constraint databases goes back to the late Paris Kanellakis

Constraint Databases and Applications Bart Kuijpers, Peter Revesz, 2004-06-02 The first International Symposium on the Applications of Constraint Databases CDB2004 took place in Paris France on June 12-13 2004 just before the ACM SIGMOD and PODS conferences Since the publication of the paper Constraint Query Languages by Kanakis Kuper and Revesz in 1990 the last decade has seen a growing interest in constraint database theory query evaluation and applications reflected in a variety of conferences journals and books Constraint databases have proven to be extremely flexible and adoptable in environments that relational database systems cannot serve well such as geographic information systems and

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Introduction to Constraint Databases Peter Revesz, 2006-04-18 Differing from other books on the subject this one uses the framework of constraint databases to provide a natural and powerful generalization of relational databases An important theme running through the text is showing how relational databases can smoothly develop into constraint databases without sacrificing any of the benefits of relational databases whilst gaining new advantages Peter Revesz begins by discussing data models and how queries may be addressed to them From here he develops the theory of relational and constraint databases including Datalog and the relational calculus concluding with three sample constraint database systems DISCO DINGO and RATHER Advanced undergraduates and graduates in computer science will find this a clear introduction to the subject while professionals and researchers will appreciate this novel perspective on their subject

Constraints and Databases Raghu Ramakrishnan, Peter Stuckey, 2012-12-06 *Constraints and Databases* contains seven contributions on the rapidly evolving research area of constraints and databases This collection of original research articles has been compiled as a tribute to Paris C Kanellakis one of the pioneers in the field Constraints have long been used for maintaining the integrity of databases More recently constraint databases have emerged where databases store and manipulate data in the form of constraints The generality of constraint databases makes them highly attractive for many applications Constraints provide a uniform mechanism for describing heterogeneous data and advanced constraint solving methods can be used for efficient manipulation of constraint data The articles included in this book cover the range of topics involving constraints and databases join algorithms evaluation methods applications e.g. data mining and implementations of constraint databases as well as more traditional topics such as integrity constraint maintenance *Constraints and Databases* is an edited volume of original research comprising invited contributions by leading researchers

Recent Advances in Temporal Databases James Clifford, Alexander Tuzhilin, 2012-12-06 The International Workshop on Temporal Databases held in Zurich Switzerland 17-18 September 1995 brought together researchers from academic and industrial institutions with database practitioners interested in keeping up with the state of the art developments in the management of temporal data A previous workshop in Arlington Texas in June 1993 focused on the development of an infrastructure that would spur the development of commercial implementations of many of the generally agreed upon features of temporal database management that have

emerged from the temporal database research community over more than a decade of research This ARP AINSF sponsored Arlington workshop saw the formation of the TSQL2 Language Design Committee which led to the development of the recently completed TSQL2 Language Specification and also created a consensus glossary of temporal database terminology and a test suite of temporal database queries The Zurich workshop was conceived from the outset to be universal in scope and international in participation The Call for Papers sought to evoke the highest quality and most up to date temporal database research from around the world Mindful of the important work accomplished by the previous workshop the Call also specifically sought out research papers and panels that would comment and build upon the widely publicized results from Arlington These proceedings contain the papers that were selected for presentation at the International Workshop on Temporal Databases held in Zurich Switzerland on 17 18 September 1995

Programming with Constraints Kim Marriott, Peter J. Stuckey, 1998 Constraints Simplification optimization and implication Finite constraint domains Constraint logic programming Simple modeling Using data structures Controlling search Modelling with finite domain constraints Advanced programming techniques CLP systems Other constraint programming languages Constraint databases Index

Introduction to Constraint Databases Peter Revesz, 2002-01-08 Differing from other books on the subject this one uses the framework of constraint databases to provide a natural and powerful generalization of relational databases An important theme running through the text is showing how relational databases can smoothly develop into constraint databases without sacrificing any of the benefits of relational databases whilst gaining new advantages Peter Revesz begins by discussing data models and how queries may be addressed to them From here he develops the theory of relational and constraint databases including Datalog and the relational calculus concluding with three sample constraint database systems DISCO DINGO and RATHER Advanced undergraduates and graduates in computer science will find this a clear introduction to the subject while professionals and researchers will appreciate this novel perspective on their subject

Principles and Practice of Constraint Programming Alan H. Borning, Alan Borning, 1994-10-12 This volume is the proceedings of the Second International Workshop on the Principles and Practice of Constraint Programming held at Rosario Orcas Island Washington USA in May 1994 in cooperation with AAAI and ALP The volume contains 27 full revised papers selected from 87 submissions as well as a summary of a panel session on commercial applications of constraint programming The contributions cover a broad range of topics including constraint programming languages algorithms for constraint satisfaction and entailment and constraints and their relation to fields such as artificial intelligence databases operations research problem solving and user interfaces

Semantics in Databases Bernhard Thalheim, Leonid Libkin, 1998-02-25 This book presents a coherent survey on exciting developments in database semantics The origins of the volume date back to a workshop held in Prague Czech Republic in 1995 The nine revised full papers and surveys presented were carefully reviewed for inclusion in the book They address more traditional aspects like dealing with integrity constraints and conceptual modeling as well as new areas of

databases object orientation incomplete information database transformations and other issues are investigated by applying formal semantics e.g. the evolving algebra semantics **Advances in Spatial Databases** Michel Scholl, 1997-07-02 Content Description Includes bibliographical references and index **Encyclopedia of GIS** Shashi Shekhar, Hui Xiong, 2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide contributed by experts and peer reviewed for accuracy and alphabetically arranged for convenient access The entries explain key software and processes used by geographers and computational scientists Major overviews are provided for nearly 200 topics Geoinformatics Spatial Cognition and Location Based Services and more Shorter entries define specific terms and concepts The reference will be published as a print volume with abundant black and white art and simultaneously as an XML online reference with hyperlinked citations cross references four color art links to web based maps and other interactive features **Database Theory - ICDT 2001** Jan Van den Bussche, Victor Vianu, 2003-06-29 This book constitutes the refereed proceedings of the 8th International Conference on Database Theory ICDT 2001 held in London UK in January 2001 The 26 revised full papers presented together with two invited papers were carefully reviewed and selected from 75 submissions All current issues on database theory and the foundations of database systems are addressed Among the topics covered are database queries SQL information retrieval database logic database mining constraint databases transactions algorithmic aspects semi structured data data engineering XML term rewriting clustering etc **Database Systems for Advanced Applications** Jeffrey Xu Yu, Myoung Ho Kim, Rainer Unland, 2011-04-06 This two volume set LNCS 6587 and LNCS 6588 constitutes the refereed proceedings of the 16th International Conference on Database Systems for Advanced Applications DASFAA 2011 held in Saarbrücken Germany in April 2010 The 53 revised full papers and 12 revised short papers presented together with 2 invited keynote papers 22 demonstration papers 4 industrial papers 8 demo papers and the abstract of 1 panel discussion were carefully reviewed and selected from a total of 225 submissions The topics covered are social network social network and privacy data mining probability and uncertainty stream processing graph XML XML and graph similarity searching and digital preservation spatial queries query processing as well as indexing and high performance *Spatio-Temporal Database Management* Michael H. Böhlen, Christian S. Jensen, Michel O. Scholl, 2003-06-26 This book constitutes the refereed proceedings of the International Workshop on Spatio Temporal Database Management Systems STDBM 99 held in Edinburgh UK in September 1999 as a satellite event of VLDB 99 The 13 revised full papers presented were carefully selected from 30 papers submitted The book offers topical sections on understanding and manipulating spatio temporal data integration exchange and visualization query processing index evaluation and constraints and dependencies Database Theory - ICDT '95 Georg Gottlob, 1995-01-03 This volume presents the proceedings of the 1995 International Conference on Database Theory ICDT 95 held in Prague in January 1995 Besides two full invited papers and the abstracts of two tutorials the book includes the revised full versions of 29 technical contributions selected from a total of 116 submissions The papers address

all current aspects of database theory they are organized in sections on optimization nonmonotonic semantics query languages concurrency control advanced models probabilistic methods constraints and dependencies and Datalog analysis

Database and Expert Systems Applications Kim V. Andersen, John Debenham, Roland Wagner, 2005-09-14 DEXA 2005 the 16th International Conference on Database and Expert Systems Applications was held at the Copenhagen Business School Copenhagen Denmark from August 22 to 26 2005 The success of the DEXA series has partly been due to the way in which it has kept abreast of recent developments by spawning specialized workshops and conferences each with its own proceedings In 2005 the DEXA programme was co located with the 7th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2005 the 6th International Conference on Electronic Commerce and Web Technologies EC Web 2005 the 4th International Conference on Electronic Government EGOV 2005 the 2nd International Conference on Trust Privacy and Security in Digital Business TrustBus 2005 the 2nd International Conference on Industrial Applications of Holonic and Multi agent Systems HoloMAS 2005 as well as 19 specialized workshops These proceedings are the result of a considerable amount of hard work Beginning with the preparation of submitted papers the papers went through the reviewing process This process was supported by online discussion between the reviewers to determine the final conference program The authors of accepted papers revised their manuscripts to produce this fine collection DEXA 2005 received 390 submissions and from those the Program Committee selected the 92 papers in these proceedings This year the reviewing process generated more than 1000 referee reports The hard work of the authors the referees and the Program Committee is gratefully acknowledged

Database Theory - ICDT 2003 Diego Calvanese, Maurizio Lenzerini, Rajeev Motwani, 2003-07-01 This book constitutes the refereed proceedings of the 9th International Conference on Database Theory ICDT 2002 held in Siena Italy in January 2002 The 26 revised full papers presented together with 3 invited articles were carefully reviewed and selected from 92 submissions The papers are organized in topical sections on reasoning about XML schemas and queries aggregate queries query evaluation query rewriting and reformulation semistructured versus structured data query containment consistency and incompleteness and data structures

Dissociative States Luis Sánchez Planell, 2000-12-21

Computer Science Logic Jörg Flum, Mario Rodríguez-Artalejo, 1999-09-08 The 1999 Annual Conference of the European Association for Computer Science Logic CSL 99 was held in Madrid Spain on September 20 25 1999 CSL 99 was the 13th in a series of annual meetings originally intended as International Workshops on Computer Science Logic and the 8th to be held as the Annual Conference of the EACSL The conference was organized by the Computer Science Departments DSIP and DACYA at Universidad Complutense in Madrid UCM The CSL 99 program committee selected 34 of 91 submitted papers for presentation at the conference and publication in this proceedings volume Each submitted paper was refereed by at least two and in almost all cases three different referees The second refereeing round previously required before a paper was accepted for publication in the proceedings was dropped following a decision taken by the EACSL

membership meeting held during CSL 98 Brno Czech Republic August 25 1998

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Table of Contents Constraint Databases

1. Understanding the eBook Constraint Databases
 - The Rise of Digital Reading Constraint Databases
 - Advantages of eBooks Over Traditional Books
2. Identifying Constraint Databases
 - 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 Constraint Databases
 - User-Friendly Interface
4. Exploring eBook Recommendations from Constraint Databases
 - Personalized Recommendations
 - Constraint Databases User Reviews and Ratings

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