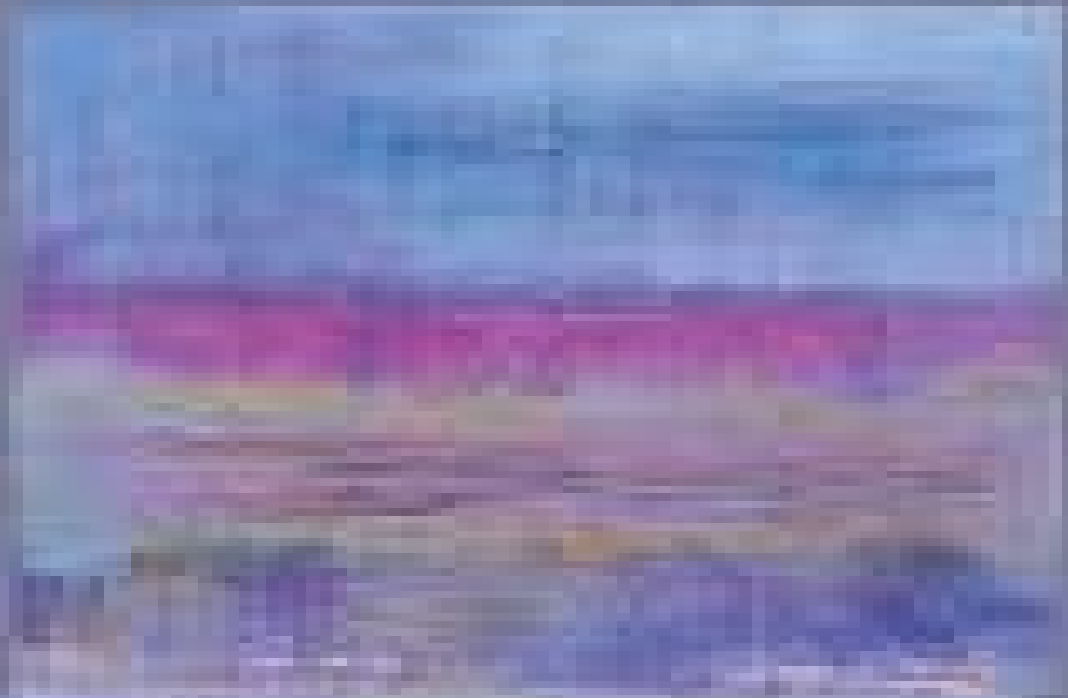


Introduction to Constraint Databases



Peter Revesz



Springer

Introduction To Constraint Databases

Raghu Ramakrishnan, Peter Stuckey



Introduction To Constraint Databases:

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Peter Revesz, 2004 This text presents the theory and applications of constraint database systems which provide new methods for the design of data models and query languages **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 **Constraint Databases and Applications** Bart Kuijpers, Peter

Revesz, 2004-10-14 The 1st 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 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 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

Introduction to Databases Peter Revesz, 2010-01-11 Introduced forty years ago relational databases proved unusually successful and durable However relational database systems were not designed for modern applications and computers As a result specialized database systems now proliferate trying to capture various pieces of the database market Database research is pulled into different directions and specialized database conferences are created Yet the current chaos in databases is likely only temporary because every technology including databases becomes standardized over time The history of databases shows periods of chaos followed by periods of dominant technologies For example in the early days of computing users stored their data in text files in any format and organization they wanted These early days were followed by information retrieval systems which required some structure for text documents such as a title authors and a publisher The information retrieval systems were followed by database systems which added even more structure to the data and made querying easier In the late 1990s the emergence of the Internet brought a period of relative chaos and interest in unstructured and semistructured data as it was envisioned that every web page would be like a page in a book However with the growing maturity of the Internet the interest in structured data was regained because the most popular websites are in fact based on databases The question is not whether future data stores need structure but what structure they need

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

Inductive Databases and Constraint-Based Data Mining Sašo Džeroski, Bart Goethals, Panče Panov, 2010-11-18 This book is about inductive databases and constraint based data mining emerging research topics lying at the intersection of data mining and database research The aim of the book is to provide an overview of the state of the art in this novel and citing research area Of special interest are the recent methods for constraint based mining of global models for prediction and clustering the unification of pattern mining approaches through constraint programming the clarification of the relationship between mining local patterns and global models and the proposed integrative frameworks and approaches for inductive databases On the application side applications to practically relevant problems from bioinformatics are presented 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 and models In the IDB framework patterns and models 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

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

Moving Objects Databases Ralf Hartmut Güting, Markus Schneider, 2005-09-06 Moving Objects Databases is the first uniform treatment of moving objects databases

the technology that supports GPS and RFID It focuses on the modeling and design of data from moving objects such as people animals vehicles hurricanes forest fires oil spills armies or other objects as well as the storage retrieval and querying of that very voluminous data It includes homework assignments at the end of each chapter exercises throughout the text that students can complete as they read and a solutions manual in the back of the book This book is intended for graduate or advanced undergraduate students It is also recommended for computer scientists and database systems engineers and programmers in government industry and academia professionals from other disciplines e g geography geology soil science hydrology urban and regional planning mobile computing bioterrorism and homeland security etc Focuses on the modeling and design of data from moving objects such as people animals vehicles hurricanes forest fires oil spills armies or other objects as well as the storage retrieval and querying of that very voluminous data Demonstrates through many practical examples and illustrations how new concepts and techniques are used to integrate time and space in database applications Provides exercises and solutions in each chapter to enable the reader to explore recent research results in practice

Database Theory - ICDT 2003 Diego Calvanese, Maurizio Lenzerini, Rajeev Motwani, 2003-02-12 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 *Database Theory - ICDT'99* Catriel Beeri, Peter Buneman, 2003-05-20 Databases research is a field of computer science where theory meets applications Many concepts and methods that were regarded as issues of theoretical interest when initially proposed are now included in implemented database systems and related products Examples abound in the fields of database design query languages query optimization concurrency control statistical databases and many others The papers contained in this volume were presented at ICDT 99 the 7th International Conference on Database Theory in Jerusalem Israel January 10-12 1999 ICDT is an international forum for research on the principles of database systems It is a biennial conference and has a tradition of being held in beautiful European sites Rome in 1986 Bruges in 1988 Paris in 1990 Berlin in 1992 Prague in 1995 and Delphi in 1997 From 1992 ICDT has been merged with another series of conferences on theoretical aspects of database systems The Symposium on Mathematical Fundamentals of Database Systems MFDBS that was initiated in Dresden 1987 and continued in Visegrad 1989 and Rostock 1991 ICDT aims to enhance the exchange of ideas and cooperation in database research both within unified Europe and between Europe and the other continents ICDT 99 was organized in cooperation with ACM Special Interest Group on Management of Data Sigmod IEEE Israel Chapter ILA The Israel Association for Information Processing EDBT Foundation ICDT 99 was sponsored by The Hebrew University of Jerusalem Tel Aviv University Tandem Labs Israel a Compaq Company

This volume contains 26 technical papers selected from 89 submissions

Information Modeling and Relational Databases Terry Halpin, Tony Morgan, 2024-07-09 Information Modeling and Relational Databases Third Edition provides an introduction to ORM Object Role Modeling and much more In fact it is the only book to go beyond introductory coverage and provide all of the in depth instruction you need to transform knowledge from domain experts into a sound database design This book is intended for anyone with a stake in the accuracy and efficacy of databases systems analysts information modelers database designers and administrators and programmers Dr Terry Halpin and Dr Tony Morgan pioneers in the development of ORM blend conceptual information with practical instruction that will let you begin using ORM effectively as soon as possible The all new Third Edition includes coverage of advances and improvements in ORM and UML nominalization relational mapping SQL XML data interchange NoSQL databases ontological modeling and post relational databases Supported by examples exercises and useful background information the authors step by step approach teaches you to develop a natural language based ORM model and then where needed abstract ER and UML models from it This book will quickly make you proficient in the modeling technique that is proving vital to the development of accurate and efficient databases that best meet real business objectives This book is an excellent introduction to both information modeling in ORM and relational databases The book is very clearly written in a step by step manner and contains an abundance of well chosen examples illuminating practice and theory in information modeling I strongly recommend this book to anyone interested in conceptual modeling and databases Dr Herman Balsters Director of the Faculty of Industrial Engineering University of Groningen The Netherlands Presents the most in depth coverage of object role modeling including a thorough update of the book for the latest versions of ORM ER UML OWL and BPMN modeling Includes clear coverage of relational database concepts as well as the latest developments in SQL XML information modeling data exchange and schema transformation Case studies and a large number of class tested exercises are provided for many topics Includes all new chapters on data file formats and NoSQL databases

Logic Programming Maria Garcia Banda, Enrico Pontelli, 2008-12-02 This book constitutes the refereed proceedings of the 24th International Conference on Logic Programming ICLP 2008 held in Udine Italy in December 2008 The 35 revised full papers together with 2 invited talks 2 invited tutorials 11 papers of the co located first Workshop on Answer Set Programming and Other Computing Paradigms ASPOCP 2008 as well as 26 poster presentations and the abstracts of 11 doctoral consortium articles were carefully reviewed and selected from 177 initial submissions The papers cover all issues of current research in logic programming they are organized in topical sections on applications algorithms systems and implementations semantics and foundations analysis and transformations CHRs and extensions implementations and systems answer set programming and extensions as well as constraints and optimizations

Advances in Databases and Information Systems Georg Gottlob, Andras Benczur, Janos Demetrovics, 2004-09-09 This book constitutes the refereed proceedings of the 8th East European Conference on Advances in Databases and Information

Systems ADBIS 2004 held in Budapest Hungary in September 2004 The 27 revised full papers presented together with an invited paper were carefully reviewed and selected from 130 submissions The papers are organized in topical sections on constraint databases deductive databases heterogeneous and Web information systems cross enterprise information systems knowledge discovery database modeling XML and semistructured databases physical database design and query evaluation transaction management and workflow systems query processing and data streams spatial databases and agents and mobile systems Research Issues in Structured and Semistructured Database Programming Richard Connor,2000-12-13 This book constitutes the thoroughly refereed post proceedings of the 7th International Workshop on Database Programming Languages DBPL 99 held in Kinloch Rannoch UK in September 1999 The 17 revised full papers presented together with an invited paper were carefully reviewed and revised for inclusion in the book The book presents topical sections on querying and query optimization languages for document models persistence components and workflows typing and querying semistructured data active and spatial databases and unifying semistructured and traditional data models **Dissociative States** Luis Sánchez Planell,2000-12-21 **Advances in Spatial Databases** Michel Scholl,1997-07-02 Content Description Includes bibliographical references and index *Advances in Databases and Information Systems* Paolo Atzeni,Albertas Caplinskis,Hannu Jaakkola,2008-08-19 This volume contains the best papers presented at the 12th East European Conference on Advances in Databases and Information Systems ADBIS 2008 held during September 5-9 2008 in Pori Finland The series of ADBIS conferences is the successor of the annual international workshops with the same title that during 1993-1996 were organized in Russia by the Moscow ACM SIGMOD Chapter ADBIS 2008 continues the series of ADBIS conferences held in St Petersburg Russia 1997 Poznan Poland 1998 Maribor Slovenia 1999 Prague Czech Republic 2000 Vilnius Lithuania 2001 Bratislava Slovakia 2002 Dresden Germany 2003 Budapest Hungary 2004 Tallinn Estonia 2005 Thessaloniki Greece 2006 and Varna Bulgaria 2007 The conferences are initiated and supervised by an international Steering Committee chaired by professor Leonid Kalinichenko The ADBIS conferences established an outstanding reputation as a scientific event of high quality serving as an internationally highly visible showcase for research achievements in the field of databases and information systems ADBIS 2008 aimed to create conditions for experienced researchers to impart their knowledge and experience to the young researchers at pre or post doctoral level and to promote interaction and collaboration between European research communities especially from Central and East Europe and the rest of the world The conference encourages contacts between the participants who are nationals of but active outside the Member States and Associated States and their colleagues in Member States and Associated States Special attention is paid to collaboration of researchers in Central and East Europe 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

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then add details such as eyes mouth and ears

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