

Example Constraint Databases

- Linear Constraint Databases
(any conjunction of linear constraints over the attribute variables)
 - Parametric Rectangles
 - Periodic Parametric Rectangles
 - Parametric 2-Spaghetti
 - Geometric Transformations
 - etc
-

Constraint Databases

Volker Gaede



Constraint Databases:

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 *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 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 Kanellakis 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 Constraint Databases 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

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

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

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

Principles and Practice of Constraint Programming, 2000 *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 Kanellakis 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

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Constraint Databases and Applications Volker Gaede, 1996-12-19. This book presents the refereed proceedings of the Second International Workshop on Constraint Database Systems CDB 97 held in Delphi Greece in January 1997 together with some papers presented at the CP 96 Workshop on Constraints and Databases held in Cambridge Massachusetts in August 1996. The 18 revised full papers presented were carefully reviewed and selected for inclusion in the volume; also included are the extended abstract of an invited contribution and two survey papers. The papers are organized in sections on languages, expressiveness of spatial languages, systems, temporal applications, new applications, indexing, constraint programming and optimization.

Recent Advances in Temporal Databases James Clifford, Alexander Tuzhilin, 1995-09-29. This volume contains papers presented at the International Workshop on Temporal Databases held in Zurich Switzerland from 17-18 September 1995. The papers cover a wide range of topics from the highly theoretical through to reports on how temporal databases can be used to solve real problems. In addition to the technical papers there are also summaries of two panel discussions which assess the recently completed TSQL2 Language Design and examine the need for additional research into the development of TSQL3. Together these papers provide a comprehensive overview of the latest research work into the area of temporal databases. They will provide invaluable reading for researchers, postgraduate students and practitioners.

Advances in Spatial Databases, 1997. **PCK50** Dina Q. Goldin, 2003. *Database Programming Languages*, 1998. *Proceedings of the 1997 International Database Engineering & Applications Symposium*. Bipin C. Desai, Barry Eaglestone, 1997. Written for researchers, professors, practitioners, students and other computing professionals, this book covers the 1997 International Database Engineering and Applications Symposium.

Databases, Types and the Relational Model C. J. Date, Hugh Darwen, 2007. This is a book on database management that is based on an earlier book by the same authors *Foundation for Future Database Systems: The Third Manifesto*. It can be seen as an abstract blueprint for the design of a DBMS and the language interface to such a DBMS. In particular it serves as a basis for a model of type inheritance. This book is essential reading for database professionals.

Proceedings of the Twenty-First ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems, 2002. **Database and Expert Systems Applications**, 2005. *TIME-99* Florida Artificial Intelligence Research Society, Manchester Metropolitan University, University of Regina, 1999. Presents papers from a May

1999 workshop bringing together research in diverse fields such as temporal and spatiotemporal databases temporal logic and spatiotemporal reasoning as well as related applications Topics include a system for reasoning with nonconvex intervals symbolic representation *Very Large Data Bases* ,1996

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