

Tutorial

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Manolis Koubarakis  
Timos Sellis et al. (Eds.)

# Spatio-Temporal Databases

The CHOROCHRONOS Approach



CHOROCHRONOS



Springer

# Spatiotemporal Databases The Chorochronos Approach

**Michael Rajnik**



## **Spatiotemporal Databases The Chorochronos Approach:**

*Spatio-Temporal Databases* Manolis Koubarakis, Timos Sellis, Andrew U. Frank, Stéphane Grumbach, Ralf Hartmut Güting, Christian S. Jensen, Nikos Lorentzos, Yannis Manolopoulos, Enrico Nardelli, Barbara Pernici, Hans-Jörg Schek, Michel Scholl, Babis Theodoulidis, Nectaria Tryfona, 2003-10-02 A summary of research carried out in the CHOROCHRONOS Project established as an EC funded Training and Mobility Research Network with the objective of studying the design implementation and application of spatio temporal database management systems The nine coherent chapters by leading research groups are written in a tutorial style making the research contributions of the project accessible to a wider audience interested in spatio temporal information processing Following an introductory overview the book presents chapters on ontologies for spatio temporal databases conceptual models spatio temporal models and languages access methods and query processing architectures and implementation of spatio temporal DBMS interactive spatio temporal documents and future perspectives

*Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends* Ferraggine, Viviana E., Doorn, Jorge Horacio, Rivero, Laura C., 2009-02-28 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher

Encyclopedia of Database Technologies and Applications Rivero, Laura C., Doorn, Jorge Horacio, Ferraggine, Viviana E., 2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii

**Database Systems for Advanced Applications** YoonJoon Lee, Jianzhong Li, Kyu-Young Whang, Doheon Lee, 2004-02-12 The 9th International Conference on Database Systems for Advanced Applications DASFAA 2004 was held during March 17 19 2004 on the beautiful Jeju island of Korea The DASFAA conference provides an international forum for technical discussions among researchers developers and users of database stems from academia business and industry The main focus of DASFAA is on research in database theory development of advanced DBMS technologies and their advanced applications A premier database conference in the Asia Pacific region DASFAA has been held every two years and in many countries in the region To promote the area further and to answer the needs of many participants the steering committee decided to hold the conference annually DASFAA 2004 was the first such annual conference The conference was organized by the Special Interest Group on Databases SIGDB of the Korea Information Science Society and the Advanced Information Technology Research Center AITrc at KAIST an engineering research center of excellence ERC supported by the Korea Science and Engineering Foundation KOSEF We had a number of sponsors who made generous contributions to make the conference successful They are Oracle Korea Samsung SDS Korea Telecom Data Inc the United States Air Force Office of Scientific Research the Asian Office of Aerospace Research Development the Army Research Office Far East and the Korea Advanced Institute of Science and Technology KAIST

*Temporal Data & the Relational Model* C.J. Date, Hugh Darwen, Nikos Lorentzos, 2002-12-03 Temporal database systems are systems that provide

special support for storing querying and updating historical and or future data Current DBMSs provide essentially no temporal features at all but this situation is likely to change soon for a variety of reasons in fact temporal databases are virtually certain to become important sooner rather than later in the commercial world as well as in academia This book provides an in depth description of the foundations and principles on which those temporal DBMSs will be built These foundations and principles are firmly rooted in the relational model of data thus they represent an evolutionary step not a revolutionary one and they will stand the test of time This book is arranged in three parts and a set of appendixes

Preliminaries Provides a detailed review of the relational model and an overview of the Tutorial D language Laying the Foundations Explains basic temporal data problems and introduces fundamental constructs and operators for addressing those problems Building on the Foundations Applies the material of the previous part to issues of temporal database design temporal constraints temporal query and update and much more Appendixes Include annotated references and bibliography implementation considerations and other topics Key features Describes a truly relational approach to the temporal data problem Addresses implementation as well as model issues Covers recent research on new database design techniques a new normal form new relational operators new update operators a new approach to the problem of granularity support for cyclic point types and other matters Includes review questions and exercises in every chapter Suitable for both reference and tutorial purposes

**Proceedings** ,2006      **Data & Knowledge Engineering, Volume 48, Issue 1** ,2004      *Time and Relational Theory* C.J. Date,Hugh Darwen,Nikos Lorentzos,2014-08-13

Time and Relational Theory provides an in depth description of temporal database systems which provide special facilities for storing querying and updating historical and future data Traditionally database management systems provide little or no special support for temporal data at all This situation is changing because Cheap storage enables retention of large volumes of historical data in data warehouses Users are now faced with temporal data problems and need solutions Temporal features have recently been incorporated into the SQL standard and vendors have begun to add temporal support to their DBMS products Based on the groundbreaking text Temporal Data the Relational Model Morgan Kaufmann 2002 and new research led by the authors Time and Relational Theory is the only book to offer a complete overview of the functionality of a temporal DBMS Expert authors Nikos Lorentzos Hugh Darwen and Chris Date describe an approach to temporal database management that is firmly rooted in classical relational theory and will stand the test of time This book covers the SQL 2011 temporal extensions in depth and identifies and discusses the temporal functionality still missing from SQL Understand how the relational model provides an ideal basis for taming the complexities of temporal databases Learn how to analyze and evaluate commercial temporal products with this timely and important information Be able to use sound principles in designing and using temporal databases Understand the temporal support recently added to SQL with coverage of the new SQL features in this unique accurate and authoritative reference Appreciate the benefits of a truly relational approach to the problem with this clear user friendly presentation

**Spatial Data Quality** Rodolphe Devillers, Helen Goodchild, 2010 This book provides an overview of research in the field of spatial data quality which looks at understanding measuring describing and communicating information about the imperfections of geographic data used by GIS and other mapping software It presents results from a number of research projects in this area from the assessment of data accuracy to legal aspects relating to the quality of geographic information The international contributors focus on the relationship between the quality of geographic data and the quality of decisions based on such data *Proceedings of the 8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences* Jingxiong Zhang, Michael F. Goodchild, 2008 *Advanced Geographic Information Systems*, 2009 *Tenth International Workshop on Database and Expert Systems Applications* Antonio Cammelli, A. Min Tjoa, Roland R. Wagner, 1999 Proceedings of the September 1999 workshop on defining requirements for future systems in the areas of database and artificial technologies The 151 contributions discuss innovative applications and new architectures mobility in databases and distributed systems similarity search web based inform *Integrated Spatial Databases*, 1999 Efficient Indexing and Query Processing Techniques on Spatial Time Series Data Pusheng Zhang, 2005 Proceedings of the Military, Government and Aerospace Simulation (MGA 2001) Michael J. Chinni, 2001 Advances in Spatial Databases, 1999 Publications on Geodesy, 1991 **American Book Publishing Record**, 2003 **Visual Languages for Interactive Computing** Fernando Ferri, 2008-01-01 This book presents problems and methodologies related to the syntax semantics and ambiguities of visual languages It defines and formalizes visual languages for interactive computing as well as visual notation interpretation Provided by publisher *Chinese Journal of Electronics*, 2004

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