

# 13. Spatiotemporal Databases

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# Spatiotemporal Databases

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## **Spatiotemporal Databases:**

Spatio-Temporal Databases Rita de Caluwe, Guy De Tré, Gloria Bordogna, 2013-04-17 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

**Advances in Spatial and Temporal Databases** Christian S. Jensen, Markus Schneider, Bernhard Seeger, Vassilis J. Tsotras, 2003-05-15 The Seventh International Symposium on Spatial and Temporal Databases SSTD 2001 held in Redondo Beach CA USA July 12 15 2001 brought together leading researchers and developers in the area of spatial temporal and spatio temporal databases to discuss the state of the art in spatial and temporal data management and applications and to understand the challenges and search directions in the advancing area of data management for moving objects The symposium served as a forum for disseminating research in spatial and temporal data management and for maximizing the interchange of knowledge among researchers from the established spatial and temporal database communities The exchange of research ideas and results not only contributes to the academic arena but also benefits the user and commercial communities SSTD 2001 was the seventh in the series of symposia that started in Santa Barbara a dozen years ago and has since been held every two years in Zurich Singapore Portland Maine Berlin and Hong Kong By 1999 the series had become well established as the premier international forum devoted solely to spatial database management and it was decided to extend the scope of the series to also cover temporal database management This extended scope was chosen due in part to the increasing importance of research that considers spatial and temporal aspects jointly

*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     *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     *Advances in Spatial and Temporal Databases* Dieter Pfoser,Yufei Tao,Kyriakos Mouratidis,Mario A. Nascimento,Mohamed Mokbel,Shashi Shekhar,YAN HUANG,2011-07-28 This volume constitutes the refereed proceedings of the 12th International Symposium on Spatial and Temporal Databases SSTD 2011 held in Minneapolis USA in August 2011 The 24 revised full papers presented together with one keynote 8 short papers and 8 demonstration papers were thoroughly reviewed and selected from a total of 63 research submissions 21 vision and challenges submissions and 16 demonstration submissions The papers are organized in topical sections on knowledge discovery spatial networks access methods moving objects and sensor networks multidimensional query processing and temporal and streaming data     **Advances in Spatial and Temporal Databases** Thanasis Hadzilacos,Yannis Manolopoulos,John F. Roddick,Yannis Theodoridis,2003-10-23 The refereed proceedings of the 8th International Symposium on Spatial and Temporal Databases SSTD 2003 held at Santorini Island Greece in July 2003 The 28 revised full papers presented together with a keynote paper were carefully reviewed and selected from 105 submissions The papers are organized in topical sections on access methods advanced query processing data mining and data warehousing distance based queries mobility and moving points management modeling and languages similarity processing systems and implementation issues     **Advances in Spatial and Temporal Databases** Claudia Bauzer Medeiros,Max Egenhofer,Elisa Bertino,2005-08-25 It is our great pleasure to introduce the papers of the proceedings of the 9th International Symposium on Spatial and Temporal Databases SSTD 2005 This year's symposium continues the tradition of being the premier forum for the presentation of research results and experience reports on leading edge issues of spatial and temporal databases systems including data models systems applications and theory The mission of the symposium is to share innovative solutions that fulfill the needs of novel applications and heterogeneous environments and identify new directions for future research and development SSTD 2005 gives researchers and practitioners a unique opportunity to share their perspectives with others interested in the various aspects of database systems for managing spatial and temporal data and for supporting their applications A total of 77 papers were submitted this year from several countries After a thorough review process the program committee accepted 24 papers covering a variety of topics including indexing techniques and query processing

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Güting,Dimitris Papadias,Fred Lochovsky,2003-05-21 This book constitutes the refereed proceedings of the 6th International Symposium on Spatial Databases SSD 99 held in Hong Kong China in July 1999 The 17 revised full papers presented were carefully selected from 55 submissions Also included are short papers corresponding to three invited talks and industrial applications presentations The papers are organized in chapters on multi resolution and scale indexing moving objects and spatio temporal data spatial mining and classification spatial join uncertainty and geological hypermaps and industrial and visionary application track      **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

*Advances in Spatial Databases* Michel Scholl,1997-07-02 Content Description Includes bibliographical references and index

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