

13. Spatiotemporal Databases

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Spatiotemporal Databases

Zongmin Ma,Luyi Bai,Li Yan



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

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 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.

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.

Spatio-Temporal Databases Manolis Koubarakis, 2003-08-04. This book is an introduction and source book for practitioners, graduate students, and researchers interested in the state of the art and practice in spatiotemporal databases. It collects the most important and representative research carried out in the project CHOROCHRONOS and presents it in a unified fashion. CHOROCHRONOS was a Training and Mobility Research Network funded by the European Commission with the objective to study the design, implementation, and application of spatiotemporal database management systems. This book would never have been possible if it was not for the devoted work of many people. First and foremost, we would like to thank the authors of the nine chapters of this book for their hard work. We would also like to acknowledge the help of Christiane Bernard, our officer from the European Commission, who saw the project to its conclusion, working as hard as we did to make it a thorough success. The constructive comments and feedback of our reviewer Colette Roland, University of Paris 1, are also very much appreciated. Last but not least, we would like to thank all the students and postdoctoral fellows who were trained during CHOROCHRONOS. We hope the time they spent at CHOROCHRONOS node institutions was rewarding and lots of fun.

March 2003, Timos Sellis, Manolis Koubarakis, Andrew Frank, Vienna, Stephane Grumbach, Ralf Hartmut Gutting, Christian Jensen, Nikos Lorentzos, Yannis Manolopoulos, Enrico Nardelli, Barbara Pernici, Babis Theodoulidis, Nectaria Tryfona, Hans-Jörg Schek, Michel Scholl.

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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 *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* Ralf H. 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

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 database 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 mobile environments and moving objects and spatial and temporal data streams We are very pleased with the variety of the symposium's topics and we are proud of the resulting strong program **Advances in Spatial Databases** Michel Scholl,1997-07-02 Content Description

Includes bibliographical references and index *Advances in Probabilistic Databases for Uncertain Information*

Management Zongmin Ma, Li Yan, 2013-03-30 This book covers a fast growing topic in great depth and focuses on the technologies and applications of probabilistic data management. It aims to provide a single account of current studies in probabilistic data management. The objective of the book is to provide the state of the art information to researchers, practitioners and graduate students of information technology of intelligent information processing and at the same time serving the information technology professional faced with non traditional applications that make the application of conventional approaches difficult or impossible. **Modeling Fuzzy Spatiotemporal Data with XML** Zongmin Ma, Luyi Bai, Li Yan, 2020-03-04

This book offers in depth insights into the rapidly growing topic of technologies and approaches to modeling fuzzy spatiotemporal data with XML. The topics covered include representation of fuzzy spatiotemporal XML data, topological relationship determination for fuzzy spatiotemporal XML data, mapping between the fuzzy spatiotemporal relational database model and fuzzy spatiotemporal XML data model and consistencies in fuzzy spatiotemporal XML data updating. Offering a comprehensive guide to the latest research on fuzzy spatiotemporal XML data management, the book is intended to provide state of the art information for researchers, practitioners and graduate students of Web intelligence as well as data and knowledge engineering professionals confronted with non traditional applications that make the use of conventional approaches difficult or impossible. *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. **Information Systems And Technologies For Network Society: Proceedings Of The IPSJ International Symposium** Yahiko Kambayashi, Yoshifumi Masunaga, Makoto Takizawa, Yuichiro

Anzai, 1997-09-09 This volume contains technical papers and panel position papers selected from the proceedings of the International Symposium on Information Systems and Technologies for Network Society held together with the IPSJ

information processing society of Japan National Convention in September 1997 Papers were submitted from all over the world especially from Japan Korea and China Since these countries are believed to form one of the major computer manufacturing centers in the world a panel on Computer Science Education for the 21st Century was set up A special session on the Japanese project on Software Engineering invited representative researchers from the project which is supported by the Ministry of Education Japan

Advances in Database Technology - EDBT 2000 Carlo Zaniolo, Peter C. Lockemann, Marc H. Scholl, Torsten Grust, 2003-06-26 EDBT 2000 is the seventh conference in a series dedicated to the advancement of database technology This year's conference special theme Connect Millions of Users and Data Sources underscores the importance of databases for the information age that is dawning with the new millennium The importance arises not just from the observation that the information age essentially rests on the convergence of communications computing and storage Equally important many of the concepts and techniques underlying the success of database systems have independent meaning and impact for today's distributed information systems The papers in the volume should also be seen in this light The EDBT 2000 conference program includes 30 research papers selected by the program committee out of 187 submissions covering advances in research development and applications of databases The conference program also includes six industry and applications papers a panel discussion six tutorials and several software demonstrations The conference features three distinguished invited speakers Ashish Gupta discusses database issues in electronic commerce Stefano Ceri addresses the impact and challenges of XML on databases and Andreas Reuter shares his views on new perspectives on database technology The technical contributions presented at the EDBT 2000 conference are collected and preserved in this volume that we are pleased to present to you with the expectation that it will serve as a valuable research and reference tool in your professional life

Advanced Database Indexing Yannis Manolopoulos, Yannis Theodoridis, Vassilis Tsotras, 2012-09-07 Advanced Database Indexing begins by introducing basic material on storage media including magnetic disks RAID systems and tertiary storage such as optical disk and tapes Typical access methods e.g. B trees dynamic hash files and secondary key retrieval are also introduced The remainder of the book discusses recent advances in indexing and access methods for particular database applications More specifically issues such as external sorting file structures for intervals temporal access methods spatial and spatio-temporal indexing image and multimedia indexing perfect external hashing methods parallel access methods concurrency issues in indexing and parallel external sorting are presented for the first time in a single book Advanced Database Indexing is an excellent reference for database professionals and may be used as a text for advanced courses on the topic

Fuzzy Spatiotemporal XML Data Management Luyi Bai, Lin Zhu, 2025-02-25 Spatiotemporal data is not always precise and fuzziness in spatiotemporal data is usually accepted because of the way the world is measured and represented Although eXtensible Markup Language XML recommended by the World Wide Web Consortium W3C has become the de facto standard for data representation and exchange on the Web an edited collection of

fuzzy spatiotemporal XML data management studies is still scarce This book studies fuzzy XML approaches for spatiotemporal data management that can greatly enhance the utilization of this sort of data for spatiotemporal applications The book is anticipated to serve as a valuable resource in this field and is expected to attract considerable interest from researchers and developers engaged in the applications within the domain of spatiotemporal data management

Database and Expert Systems Applications Gerald Quirchmayr, Erich Schweighofer, Trevor J.M.

Bench-Capon, 1998-08-14 This book constitutes the refereed proceedings of the 9th International Conference on Database and Expert Systems Applications DEXA 98 held in Vienna Austria in August 1998 The 81 revised full papers presented were carefully selected from a total of more than 200 submissions The papers are organized in sections on active databases object oriented systems data engineering information retrieval workflow and cooperative systems spatial and temporal aspects document management spatial databases adaptation and view updates genetic algorithms cooperative and distributed environments interaction and communication transaction advanced applications temporal aspects oriented systems partitioning and fragmentation database queries data data warehouses knowledge discovery and data mining knowledge extraction and knowledge base reduction for comprehension and reuse Advances in Databases and Information Systems Johann Eder, Hele-Mai Haav, Ahto Kalja, Jaan Penjam, 2005-09-21 The 9th East European Conference on Advances in Databases and Information Systems was held on September 12 15 2005 in Tallinn Estonia It was organized in a cooperation between the Institute of Cybernetics at Tallinn University of Technology the Department of Computer Engineering of Tallinn University of Technology and the Moscow chapter of ACM SIGMOD The main objective of the ADBIS series of conferences is to provide a forum for the dissemination of excellent research accomplishments and to promote interaction and collaboration between the Database and Information Systems research communities from Central and East European countries and the rest of the world The ADBIS conferences provide an international platform for the presentation of research on database theory the development of advanced DBMS technologies and their advanced applications in particular in information systems The 2005 conference continued the ADBIS conferences held in St Petersburg 1997 Poznan 1998 Maribor 1999 Prague 2000 Vilnius 2001 Bratislava 2002 Dresden 2003 and Budapest 2004 The conference consisted of regular sessions with technical contributions reviewed and selected by an international Program Committee as well as of invited talks and tutorials given by leading scientists For the first time the ADBIS conferences had a satellite event a workshop on data mining and knowledge discovery The ADMKD 2005 workshop with its own international Program Committee as well as proceedings served as a forum to encourage researchers and practitioners to discuss and investigate data mining research and implementation issues and to share experience in developing and deploying data mining systems

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