

13. Spatiotemporal Databases

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- Parametric Extreme Point Data Models
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- Queries



Spatiotemporal Databases

Zongmin Ma, 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 CHOROCRONOS 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

Spatial Databases Yannis Manolopoulos, Apostolos N. Papadopoulos, Michael Gr Vassilakopoulos, 2005-01-01 Introduces the reader to the world of spatial databases and related subtopics The broad range of topics includes spatial data modelling indexing of spatial and spatiotemporal objects data mining and knowledge discovery in spatial and spatiotemporal management issues and query processing for moving objects

Spatial Databases Philippe Rigaux, Michel Scholl, Agnès Voisard, 2002 The authors explore and explain current techniques for handling the specialised data that describes geographical phenomena in a study that will be of great value to computer

scientists and geographers working with spatial databases *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 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* Dieter Pfoser, Yufei Tao, Kyriakos Mouratidis, Mario 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 Databases* Michel Scholl, 1997-07-02 Content Description Includes bibliographical references and index **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 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

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 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

Moving Objects Databases Ralf Hartmut

Güting,Markus Schneider,2005-08-23 First uniform treatment of moving objects databases the technology that supports GPS and RFID data analysis

Spatiotemporal Data Analytics and Modeling John A,Satheesh Abimannan,El-Sayed M.

El-Alfy,Yue-Shan Chang,2024-04-15 With the growing advances in technology and transformation to digital services the world

is becoming more connected and more complex Huge heterogeneous data are generated at rapid speed from various types of sensors Augmented with artificial intelligence and machine learning and internet of things latent relations and new insights can be captured helping in optimizing plans and resource utilization improving infrastructure and enhancing quality of services A spatial data management system is a way to take care of data that has something to do with space This could include data such as maps satellite images and GPS data A temporal data management system is a system designed to manage data that has a temporal component This could include data such as weather data financial data and social media data Some advanced techniques used in spatial and temporal data management systems include geospatial indexing for efficient querying and retrieval of location based data time series analysis for understanding and predicting temporal patterns in datasets like weather or financial trends machine learning algorithms for uncovering hidden patterns and correlations in large and complex datasets and integration with Internet of Things IoT technologies for real time data collection and analysis These techniques augmented with artificial intelligence enable the extraction of latent relations and insights thereby optimizing plans improving infrastructure and enhancing the quality of services This book provides essential technical knowledge best practices and case studies on the state of the art techniques of artificial intelligence and machine learning for spatiotemporal data analysis and modeling The book is composed of several chapters written by experts in their fields and focusing on several applications including recommendation systems big data analytics supply chains and e commerce energy consumption and demand forecasting and traffic and environmental monitoring It can be used as academic reference at graduate level or by professionals in science and engineering related fields such as data science and engineering big data analytics and mining artificial intelligence machine learning and deep learning cloud computing and internet of things

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

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 **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 Spatial Database for GPS Wildlife Tracking Data

Ferdinando Urbano,Francesca Cagnacci,2014-03-12 This book guides animal ecologists biologists and wildlife and data managers through a step by step procedure to build their own advanced software platforms to manage and process wildlife tracking data This unique problem solving oriented guide focuses on how to extract the most from GPS animal tracking data while preventing error propagation and optimizing analysis performance Based on the open source PostgreSQL PostGIS spatial database the software platform will allow researchers and managers to integrate and harmonize GPS tracking data together with animal characteristics environmental data sets including remote sensing image time series and other bio logged data such as acceleration data Moreover the book shows how the powerful R statistical environment can be integrated into the software platform either connecting the database with R or embedding the same tools in the database through the PostgreSQL extension Pl R The client server architecture allows users to remotely connect a number of software applications that can be used as a database front end including GIS software and WebGIS Each chapter offers a real world data management and processing problem that is discussed in its biological context solutions are proposed and exemplified through ad hoc SQL code progressively exploring the potential of spatial database functions applied to the respective wildlife tracking case Finally wildlife tracking management issues are discussed in the increasingly widespread framework of collaborative science and data sharing GPS animal telemetry data from a real study freely available online are used to demonstrate the proposed examples This book is also suitable for undergraduate and graduate students if accompanied by the basics of 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

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

Unveiling the Magic of Words: A Overview of "**Spatiotemporal Databases**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Spatiotemporal Databases**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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