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Timos Sellis et al. (Eds.)

Spatio-Temporal Databases

The CHOROCHRONOS Approach



Springer

Spatiotemporal Databases The Chorochronos Approach

Manolis Koubarakis



Spatiotemporal Databases The Chorochronos Approach:

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 Guting Christian Jensen Nikos Lorentzos Yannis Manolopoulos Enrico Nardelli Barbara Pernici Babis Theodoulidis Nectaria Tryfona Hans Jorg Schek Michel Scholl Table of Contents 1 Introduction **Spatio-Temporal Data Streams** Zdravko Galić, 2016-08-26 This SpringerBrief presents the fundamental concepts of a specialized class of data stream spatiotemporal data streams and demonstrates their distributed processing using Big Data frameworks and platforms It explores a consistent framework which facilitates a thorough understanding of all different facets of the technology from basic definitions to state of the art techniques Key topics include spatiotemporal continuous queries distributed stream processing SQL like language embedding and trajectory stream clustering Over the course of the book the reader will become familiar with spatiotemporal data streams management and data flow processing which enables the analysis of huge volumes of location aware continuous data streams Applications range from mobile object tracking and real time intelligent transportation systems to traffic monitoring and complex event processing Spatio Temporal Data Streams is a valuable resource for researchers studying spatiotemporal data streams and Big Data analytics as well as data engineers and data scientists solving data management and analytics problems associated with this class of data **Open Source Approaches in Spatial Data Handling** Brent Hall, Michael G. Leahy, 2008-09-27 The role open source geospatial software plays in data handling within the spatial information technology industry is the overarching theme of the book It also examines new tools and applications for those already using OS approaches to software development *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 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

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 *Advances in Spatio-Temporal Analysis* Xinming Tang,Yaolin Liu,Jixian Zhang,Wolfgang Kainz,2007-08-23 Developments in Geographic Information Technology have raised the expectations of users A static map is no longer enough there is now demand for a dynamic representation Time is of great importance when operating on real world geographical phenomena especially when these are dynamic Researchers in the field of Temporal Geographical Infor

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

Big Data Analytics and Knowledge Discovery Sanjay Madria, Takahiro Hara, 2016-08-05 This book constitutes the refereed proceedings of the 18th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2016 held in Porto Portugal September 2016 The 25 revised full papers presented were carefully reviewed and selected from 73 submissions The papers are organized in topical sections on Mining Big Data Applications of Big Data Mining Big Data Indexing and Searching Big Data Learning and Security Graph Databases and Data Warehousing Data Intelligence and Technology

Geographic Uncertainty in Environmental Security Ashley Morris, Svitlana Kokhan, 2007-09-14 On June 28 through July 1 2006 a NATO advanced research workshop was held in Kyiv Ukraine This meeting of scholars from both NATO and NATO partner countries brought together the leading researchers in the field of Fuzziness and Uncertainty in GIS for Environmental Security and Protection The papers based upon the presentations at this meeting are included in this book They were all quite good some focusing on the use of fuzzy sets in geography others focusing on explicit environmental concerns in Ukraine What this book cannot show is the camaraderie and spirit of cooperation that permeated the atmosphere of this workshop These researchers many of whom had never met before are now colleagues and are continuing to collaborate on research to this day and probably beyond Scholars from various positions and countries have chosen to work together in the spirit of cooperation to make the ideas presented in this book come to fruition At press time we do not know if Ukraine will become a NATO member or not In any case the editors wish to thank the NATO Science Committee for their funding encouragement and work in making this workshop a reality We hope that the spirit of cooperation and intellectual curiosity that was so lively at the conference will encourage the reader in the perusal of this work

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