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# Moving Objects Management

Models, Techniques  
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# Moving Objects Management Models Techniques And Applications

**Alejandro Vaisman, Esteban Zimányi**



## **Moving Objects Management Models Techniques And Applications:**

**Moving Objects Management** Xiaofeng Meng,Zhiming Ding,Jiajie Xu,2014-04-04 Applications 2nd Edition focuses on moving object management from the location management perspective to determining how constantly changing locations affect the traditional database and data mining technology The book specifically describes the topics of moving objects modeling and location tracking indexing and querying clustering location uncertainty traffic aware navigation and privacy issues as well as the application to intelligent transportation systems Through the book the readers will be made familiar with the cutting edge technologies in moving object management that can be effectively applied in LBS and transportation contexts The second edition of this book significantly expands the coverage of the latest research on location privacy traffic aware navigation and uncertainty The book has also been reorganized with nearly all chapters rewritten and several new chapters have been added to address the latest topics on moving objects management Xiaofeng Meng is a professor at the School of Information Renmin University of China Zhiming Ding is a professor at the Institute of Software Chinese Academy of Sciences ISCAS Jiajie Xu is an assistant professor at the ISCAS

**Moving Objects Management** Xiaofeng Meng,Zhiming Ding,Jiajie Xu,2014-04-30 *Moving Objects Management* Xiaofeng Meng,Jidong Chen,2010-11-22 The continued advances in wireless communication and positioning technologies such as GPS have made new data management applications possible such as location based services LBS that store and manage the continuously changing positions of moving objects Moving Objects Management Models Techniques and Applications focuses on moving objects management from the location management perspective to the exploration of how the continually changing locations affect the traditional database and data mining technology Specifically the book describes the topics of moving objects modeling and location updating indexing and querying clustering location uncertainty and privacy issues as well as their application to intelligent transportation systems This book is intended for developers of database management systems and mobile applications research scientists and advanced level students in computer science and geography Dr Xiaofeng Meng is a professor at the School of Information Renmin University of China Dr Jidong Chen is a senior research scientist at EMC Research China one of the research groups of the EMC Corporation *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

**Distributed and Parallel Architectures for Spatial Data** Alberto Belussi, Sara Migliorini, 2021-01-20 This book aims at promoting new and innovative studies proposing new architectures or innovative evolutions of existing ones and illustrating experiments on current technologies in order to improve the efficiency and effectiveness of distributed and cluster systems when they deal with spatiotemporal data

**Data Warehouse Systems** Alejandro Vaisman, Esteban Zimányi, 2022-07-15 With this textbook Vaisman and Zimányi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications To this end their work is structured into three parts Part I describes Fundamental Concepts including conceptual and logical data warehouse design as well as querying using MDX DAX and SQL OLAP This part also covers data analytics using Power BI and Analysis Services Part II details Implementation and Deployment including physical design ETL and data warehouse design methodologies Part III covers Advanced Topics and it is almost completely new in this second edition This part includes chapters with an in depth coverage of temporal spatial and mobility data warehousing Graph data warehouses are also covered in detail using Neo4j The last chapter extensively studies big data management and the usage of Hadoop Spark distributed in memory columnar NoSQL and NewSQL database systems and data lakes in the context of analytical data processing As a key characteristic of the book most of the topics are presented and illustrated using application tools Specifically a case study based on the well known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Power BI All chapters have been revised and updated to the latest versions of the software tools used KPIs and Dashboards are now also developed using DAX and Power BI and the chapter on ETL has been expanded with the implementation of ETL processes in PostgreSQL Review questions and exercises complement each chapter to support

comprehensive student learning Supplemental material to assist instructors using this book as a course text is available online and includes electronic versions of the figures solutions to all exercises and a set of slides accompanying each chapter Overall students practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses with key topics described in a clear and educational style I can only invite you to dive into the contents of the book feeling certain that once you have completed its reading or maybe targeted parts of it you will join me in expressing our gratitude to Alejandro and Esteban for providing such a comprehensive textbook for the field of data warehousing in the first place and for keeping it up to date with the recent developments in this current second edition From the foreword by Panos Vassiliadis University of Ioannina Greece

Digital Transformation of Enterprise Architecture Vivek Kale, 2019-07-08 In this book Vivek Kale makes an important contribution to the theory and practice of enterprise architecture this book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise This book should have a place in every practicing architect's library John D McDowall Author of Complex Enterprise Architecture

Digital Transformation of Enterprise Architecture is the first book to propose Enterprise Architecture EA as the most important element after Business Models for digital transformation of enterprises This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it and these technologies in turn reveal the essence of digital transformation This book would be useful for analysts designers and developers of future ready agile application systems This book proposes that it is the perennial quest for interoperability portability scalability availability etc that has directed and driven the evolution of the IT IS industry in the past 50 years It is this very quest that has led to the emergence of technologies like service oriented cloud and big data computing In addition to the conventional attributes of EA like interoperability scalability and availability this book identifies additional attributes of mobility ubiquity security analyticity and usability This pragmatic book Identifies three parts effort for any digital transformation Business Models Enterprise Architectures and Enterprise Processes Describes eight attributes of EA interoperability scalability availability mobility ubiquity security analyticity and usability Explains the corresponding technologies of service oriented cloud big data context aware Internet of Things IoT blockchain soft and interactive computing Briefs on auxiliary technologies like integration virtualization replication spatio temporal databases embedded systems cryptography data mining and interactive interfaces that are essential for digital transformation of enterprise architecture Introduces interactive interfaces like voice gaze gesture and 3D interfaces Provides an overview of blockchain computing soft computing and customer interaction systems Digital Transformation of Enterprise Architecture proposes that to withstand the disruptive digital storms of the future enterprises must bring about digital transformation i.e. a transformation that affects an exponential change amplification or attenuation in any aspect of the constituent attributes of EA It proposes that each of these technologies service oriented cloud big data context aware IoT blockchain soft and interactive computing bring about

digital transformation of the corresponding EA attribute viz interoperability scalability availability mobility ubiquity security analyticity and usability

**Unconventional Emergency Management Research** Weicheng Fan,2024-03-20 This book mainly introduces the research overview research results and follow up prospects of Unconventional Emergency Management Research a major research plan of National Natural Science Foundation of China hereinafter referred to as the Plan The Plan has carried out innovative research around major strategic fields and directions on emergency management A total of 121 projects were funded by the Plan including 92 Fostering Projects 25 Key Projects and 4 Integrated Projects with a total funding of 120 million RMB From the perspective of major national needs and scientific discipline development the book focuses on three key scientific issues information processing and evolution modeling of unconventional emergencies emergency decision making theory of unconventional emergencies and psychological and behavioral response laws of individuals and groups in emergency situations The publication of this book aims to provide more powerful support for the research and exploration in public security and emergency management

Spatio-Temporal Data Streams Zdravko Galić,2016-08-26 This SpringerBrief presents the fundamental concepts of a specialized class of data stream spatio temporal 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 spatio temporal 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 spatio temporal 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 spatio temporal 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

*Principles of Computational Geometry* Devang Patil,2025-02-20 Principles of Computational Geometry delves into the intersection of mathematics algorithms and computer science to solve geometric problems using computational methods We cover a wide range of topics from fundamental geometric concepts to advanced algorithmic techniques Our book explores geometric data structures and algorithms designed to efficiently tackle issues like geometric modeling spatial analysis and geometric optimization We introduce readers to key concepts like convex hulls Voronoi diagrams and Delaunay triangulations which serve as building blocks for solving complex geometric problems Additionally we discuss techniques for geometric transformation intersection detection and geometric search providing the tools needed to analyze and manipulate geometric data effectively Throughout the text we highlight practical applications of computational geometry ranging from computer graphics and image processing to robotics and geographic information systems We also explore the theoretical underpinnings of computational

geometry offering insights into the mathematical foundations of algorithms and their computational complexity Overall Principles of Computational Geometry serves as a comprehensive guide for students researchers and practitioners interested in leveraging computational methods to solve geometric problems efficiently and effectively With its blend of theory and practical applications our book offers a valuable resource for anyone exploring the rich and diverse field of computational geometry

Database Systems for Advanced Applications Jayant R. Haritsa, 2008-02-29 This book constitutes the refereed proceedings of the 13th International Conference on Database Systems for Advanced Applications DASFAA 2008 held in New Delhi India in March 2008 The 30 revised full papers and 27 revised short papers presented together with the abstracts of 3 invited talks as well as 8 demonstration papers and a panel discussion motivation were carefully reviewed and selected from 173 submissions The papers are organized in topical sections on XML schemas data mining spatial data indexes and cubes data streams P2P and transactions XML processing complex pattern processing IR techniques queries and transactions data mining XML databases data warehouses and industrial applications as well as mobile and distributed data

**Mobility Data Science** Mahmoud Sakr, Alejandro Vaisman, Esteban Zimányi, 2025-04-09 This textbook covers the key topics in mobility data analysis including all steps of the data science pipeline illustrated with real world examples The book is composed of three parts Part I Fundamental Concepts provides the background for this book by introducing spatial and temporal databases and motivating the need for mobility databases Further chapters in this part are devoted to a formal model for representing mobility data an introduction to mobility data visualization and the topic of querying mobility databases Part II Advanced Topics covers topics such as query processing and indexing illustrated with PostgreSQL introduces mobility data warehouses using synthetic data and concludes with distributed mobility databases Part III Mobility Analytics covers important topics like mobility data cleaning including the identification of erroneous data and mobility analysis using foundational algorithms for spatial and mobility data It also includes an urban mobility use case that illustrates the concepts presented throughout the book in a real application setting This textbook is written for undergraduate and graduate computer science courses on mobility data science As such it follows a pedagogical style to make the work of the instructor easier and to help students to understand the concepts being delivered complementing the presentation with exercises and a companion GitHub repository SQL is used as a high level language for analytics allowing students to write complex data science code while abstracting away implementation details Researchers and practitioners who are interested in an introduction to the area of mobility data science will also find the book a useful reference

**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

Web-Age Information Management Haixun Wang, Shijun Li, Satoshi Oyama, Xiaohua Hu, Tieyun Qian, 2011-08-26 This book

constitutes the refereed proceedings of the 12th International Conference on Web Age Information Management WAIM 2011 held in Wuhan China in September 2011 The 53 revised full papers presented together with two abstracts and one full paper of the keynote talks were carefully reviewed and selected from a total of 181 submissions The papers are organized in topical sections on query processing uncertain data social media semantics data mining cloud data multimedia data user models data management graph data name disambiguation performance temporal data XML spatial data and event detection

**Building Scalable Data-Intensive Applications** Chandani Kaul, 2025-01-03 Building Scalable Data Intensive Applications explores the vast landscape of digital data from social networks blogs business science and engineering This book delves into data intensive computing which is essential for understanding and processing massive amounts of data Utilizing the latest software algorithms and hardware data intensive applications deliver timely and meaningful insights addressing the challenges posed by exponentially growing data complexity We provide a comprehensive reference for computing professionals and researchers covering the field s scope key challenges and state of the art approaches required for future data intensive problems Our chapters include general principles and methods for designing and managing systems that analyze vast datasets particularly those stored in the cloud Additionally we explore practical applications in cybersecurity and bioinformatics to illustrate these principles in action Building Scalable Data Intensive Applications is an invaluable resource for anyone looking to navigate and harness the power of data intensive computing

*Web Information Systems Engineering - WISE 2012* X. Sean Wang, Isabel Cruz, Alex Delis, Guangyan Huang, 2012-11-07 This book constitutes the proceedings of the 13th International Conference on Web Information Systems Engineering WISE 2012 held in Paphos Cyprus in November 2012 The 44 full papers 13 short papers 9 demonstrations papers and 9 challenge papers were carefully reviewed and selected from 194 submissions The papers cover various topics in the field of Web Information Systems Engineering

*Mobile Data Management* Kian-Lee Tan, Michael J. Franklin, John C.-S. Lui, 2003-06-29 Welcome to the Second International Conference on Mobile Data Management MDM2001 The conference serves as a forum for the exchange of technical ideas and research results in the areas of mobility and database management This year we have a very exciting program for MDM2001 Many quality papers were submitted to the conference All of the submitted papers were viewed by at least three PC members Due to the limitations of the program schedule as well as the desire to organize the conference using a single track format we selected only 18 papers for full presentation at the conference As a result many excellent papers could not be accepted The papers chosen for presentation span a large range of topics from network protocol issues up to the semantics of mobile applications The common theme of all these papers is their recognition of the central role played by data management techniques in the development of the emerging world of mobile and wireless applications We have loosely organized these papers into six areas 1 DATA MANAGEMENT ARCHITECTURES 2 CONTENT DELIVERY 3 DATA BROADCASTING 4 CACHING AND HOARDING 5 COPING WITH MOVEMENT 6 NETWORKS AND SYSTEMS ISSUES In



addition to the research track we have sought to broaden the scope of the conference with an industrial session as well as poster presentations. Overall the program strikes a comfortable balance between applied and theoretically oriented papers.

**Advances in Web and Network Technologies, and Information Management** Kevin C. Chang, Wei Wang, Lei Chen, Clarence A. Ellis, Ching-Hsien Hsu, Ah Chung Tsoi, Haixun Wang, Xuemin Lin, Yun Yang, Jeffrey Xu, 2007-08-22. This book constitutes the refereed combined proceedings of four international workshops held in conjunction with the joint 9th Asia Pacific Web Conference APWeb 2007 and the 8th International Conference on Web Age Information Management WAIM 2007 held in Huang Shan, China, in June 2007: DBMAN 2007, WebETrends 2007, PAIS 2007 and ASWAN 2007.

**Ubiquitous Computing Application and Wireless Sensor** James J. (Jong Hyuk) Park, Yi Pan, Han-Chieh Chao, Gangman Yi, 2015-03-04. IT changes everyday's life especially in education and medicine. The goal of ITME 2014 is to further explore the theoretical and practical issues of Ubiquitous Computing Application and Wireless Sensor Network. It also aims to foster new ideas and collaboration between researchers and practitioners. The organizing committee is soliciting unpublished papers for the main conference and its special tracks.

**Next Generation Information Technologies and Systems** Alon Halevy, Avigdor Gal, 2002-06-12. NGITS2002 was the 4th workshop of its kind promoting papers that discuss new technologies in information systems. Following the success of the four previous workshops (1993, 1995, 1997, and 1999) the 4th NGITS Workshop took place on June 24-25, 2002, in the ancient city of Caesarea. In response to the Call for Papers, 22 papers were submitted. Each paper was evaluated by three Program Committee members. We accepted 11 papers from 3 continents and 5 countries: Israel (5 papers), US (3 papers), Germany, Cyprus, and The Netherlands (1 paper from each). The workshop program consisted of five paper sessions, two keynote lectures, and one panel discussion. The topics of the paper sessions are: Advanced Query Processing, Web Applications, Moving Objects, Advanced Information Models, and Advanced Software Engineering. We would like to thank all the authors who submitted papers, the program committee members, the presenters, and everybody who assisted in making NGITS2002 a reality.

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