



# Moving Objects Databases

Worcester Polytechnic Institute

Worcester, MA

April 8, 2004

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# Moving Objects Databases

**Jeffrey Xu Yu, Myoung Ho Kim, Rainer  
Unland**



## **Moving Objects Databases:**

*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      *Managing Moving Objects Databases with Uncertainty* Goce Trajcevski, 2002      *Moving Objects Management* Xiaofeng Meng, Jidong Chen, 2011-01-27 We live in an age of rapid technological development The Internet already affects our lives in many ways Indeed we continue to depend more and more intrinsically on the Internet which is increasingly becoming a fundamental piece of societal infrastructure just as water supply electricity grids and transportation networks have been for a long time But while these other infrastructures are relatively static the Internet is undergoing swift and fundamental change Notably the Internet is going mobile The world has some 6.7 billion humans 4 billion mobile phones and 1.7 billion Internet users The two most populous continents Asia and Africa have relatively low Internet penetration and hold the greatest potentials for growth Their mobile phone users by far outnumber their Internet users and the numbers are growing rapidly China and India are each gaining about half a dozen million new phone users per month Users across the globe as a whole increasingly embrace mobile Internet devices with smart phone sales are starting to outnumber PC sales Indeed these and other facts suggest that the Internet stands to gain a substantial mobile component This mega trend towards mobile is enabled by rapid and continuing advances in key technology areas such as mobile communication consumer electronics GPS positioning and computing In short this is the backdrop for this very timely book on moving objects by Xiaofeng Meng and Jidong Chen      *Moving Objects Databases* Ralf Hartmut Güting, 2004      *Privacy-preserving Publishing of Moving Objects Databases*, 2004 Moving Objects Databases MOD have gained popularity as a subject for research due to the latest developments in the positioning technologies and mobile networking Analysis of mobility data can be used to discover and deliver knowledge that can enhance public welfare For instance a study of traffic patterns and congestion trends can reveal some information that can be used to improve routing and scheduling of public transit vehicles To enable analysis of mobility data a MOD must be published However publication of MOD can pose a threat to location privacy of users whose movement is recorded in the database A user's location at one or more time points can be publicly available prior to the publication of MOD Based on this public knowledge an attacker can potentially find the user's entire trajectory and learn his/her positions at other time points which constitutes privacy breach This public knowledge is a user's quasi identifier QID i.e. a set of attributes that can uniquely identify the user's trajectory in the published database We argue that unlike in relational microdata where all tuples have the same set of quasi identifiers in mobility data the concept of quasi identifier must be modeled subjectively on an individual basis In this work we study the problem of privacy preserving publication of MOD We conjecture that each Moving Object MOB may have a distinct QID We develop a possible attack model on the published MOD given public knowledge of some or all MOBs We develop a k-anonymity model based on classical k-anonymity which ensures that every object is indistinguishable with respect to its QID from at

least  $k-1$  other objects and show that this model is impervious to the proposed attack model We employ space generalization to achieve MOB anonymity We propose three anonymization algorithms that generate a MOD that satisfies the  $k$  anonymity model while minimizing the information loss We conduct several sets of experiments on s

**Moving Objects Databases** Ralf Hartmut Güting, 2004 *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 Databases** Ralf Hartmut Güting, 2004 **Introduction to Databases** Peter Revesz, 2010-01-11 Introduced forty years ago relational databases proved unusually successful and durable However relational database systems were not designed for modern applications and computers As a result specialized database systems now proliferate trying to capture various pieces of the database market Database research is pulled into different directions and specialized database conferences are created Yet the current chaos in databases is likely only temporary because every technology including databases becomes standardized over time The history of databases shows periods of chaos followed by periods of dominant technologies For example in the early days of computing users stored their data in text files in any format and organization they wanted These early days were followed by information retrieval systems which required some structure for text documents such as a title authors and a publisher The information retrieval systems were followed by database systems which added even more structure to the data and made querying easier In the late 1990s the emergence of the Internet brought a period of relative chaos and interest in unstructured and semistructured data as it was envisioned that every web page would be like a page in a book However with the growing maturity of the Internet the interest in structured data was regained because the most popular websites are in fact based on databases The question is not whether future data stores need structure but what structure they need

**Database and Expert Systems Applications** Abdelkader Hameurlain, Stephen W. Liddle, Klaus-Dieter Schewe, Xiaofang Zhou, 2011-08-19 This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications DEXA 2011 held in Toulouse France August 29 September 2 2011 The 52 revised full papers and 40

short papers presented were carefully reviewed and selected from 207 submissions The papers are organized in topical sections on XML querying and views data mining queries and search semantic web information retrieval business applications user support indexing queries views and data warehouses ontologies physical aspects of databases Design distribution miscellaneous topics

**Methods for Processing Moving Regions in Moving Objects Databases** Florian Heinz,2021

**Encyclopedia of Database Technologies and Applications** Rivero, Laura C.,Doorn, Jorge Horacio,Ferraggine, Viviana E.,2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii

Query Languages for Moving Object Databases Hoda Mokhtar Omar Mokhtar,2005 Moving object databases spatio temporal databases are one of the recent evolutions that emerged to fulfill some of the urging requirements of new applications including mobile phone services emergency applications E 911 navigational and military services flight management and tracking m commerce and various location based services LBS Moving object databases integrate traditional spatial and temporal databases and studies modeling managing and querying objects whose location and or extent change over time Modeling and querying moving objects are essential components in moving object databases In this thesis we focus on designing efficient query languages for moving objects We study both objects with exact trajectory information and objects whose location information is not available at every time instant and hence have uncertainty inherent in their location information

**Database and Expert Systems Applications** Stephane Bressan,Josef Küng,Roland Wagner,2006-08-29 This book constitutes the refereed proceedings of the 17th International Conference on Database and Expert Systems Applications DEXA 2006 The book presents 90 revised full papers together with 1 invited paper The papers are organized in topical sections on XML data and information data mining and data warehouses database applications WWW bioinformatics process automation and workflow knowledge management and expert systems database theory query processing and privacy and security

**Advanced Web Technologies and Applications** Jeffrey Xu Yu,Xuemin Lin,Hongjun Lu,Yanchun Zhang,2004-03-15 The Asia Pacific region has emerged in recent years as one of the fastest growing regions in the world in the use of Web technologies as well as in making significant contributions to WWW research and development Since the first Asia Pacific Web conference in 1998 APWeb has continued to provide a forum for researchers professionals and industrial practitioners from around the world to share their rapidly evolving knowledge and to report new advances in WWW technologies and applications APWeb 2004 received an overwhelming 386 full paper submissions including 375 research papers and 11 industrial papers from 20 countries and regions Australia Canada China France Germany Greece HongKong India Iran Japan Korea Norway Singapore Spain Switzerland Taiwan Turkey UK USA and Vietnam Each submission was carefully reviewed by three members of the program committee Among the 386 submitted papers 60 regular papers 24 short papers 15 poster papers and 3 industrial papers were selected to be included in the proceedings The selected papers cover a wide range of topics including Web services

Web intelligence Web personalization Web query processing Web ching Web mining text mining data mining and knowledge discovery XML database and query processing work ow management E commerce data rehousing P2P systems and applications Grid computing and networking The paper entitled Towards Adaptive Probabilistic Search in Unstructured P2P stems co authored by Linhao Xu Chenyun Dai Wenyuan Cai Shuigeng Zhou and Aoying Zhou was awarded the best APWeb 2004 student paper *Advances in Databases and Information Systems* Georg Gottlob,Andras Benczur,Janos Demetrovics,2004-09-20 This book constitutes the refereed proceedings of the 8th East European Conference on Advances in Databases and Information Systems ADBIS 2004 held in Budapest Hungary in September 2004 The 27 revised full papers presented together with an invited paper were carefully reviewed and selected from 130 submissions The papers are organized in topical sections on constraint databases deductive databases heterogenous and Web information systems cross enterprise information systems knowledge discovery database modeling XML and semistructured databases physical database design and query evaluation transaction management and workflow systems query processing and data streams spatial databases and agents and mobile systems *Current Trends in Database Technology - EDBT 2006* Torsten Grust,2006-10-10 This book constitutes the thoroughly refereed joint post proceedings of nine workshops held as part of the 10th International Conference on Extending Database Technology EDBT 2006 held in Munich Germany in March 2006 The 70 revised full papers presented were selected from numerous submissions during two rounds of reviewing and revision

**Moving Objects Databases ,2004      Database Design: Know It All** Toby J. Teorey,Tony Morgan,Thomas P. Nadeau,Bonnie O'Neil,Elizabeth O'Neil,Patrick O'Neil,Markus Schneider,Graeme Simsion,Graham Witt,Stephen Buxton,Lowell Fryman,Ralf Hartmut Güting,Terry Halpin,Jan L. Harrington,W.H. Inmon,Sam S. Lightstone,Jim Melton,2008-10-23 This book brings all of the elements of database design together in a single volume saving the reader the time and expense of making multiple purchases It consolidates both introductory and advanced topics thereby covering the gamut of database design methodology from ER and UML techniques to conceptual data modeling and table transformation to storing XML and querying moving objects databases The proposed book expertly combines the finest database design material from the Morgan Kaufmann portfolio Individual chapters are derived from a select group of MK books authored by the best and brightest in the field These chapters are combined into one comprehensive volume in a way that allows it to be used as a reference work for those interested in new and developing aspects of database design This book represents a quick and efficient way to unite valuable content from leading database design experts thereby creating a definitive one stop shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources Chapters contributed by various recognized experts in the field let the reader remain up to date and fully informed from multiple viewpoints Details multiple relational models and modeling languages enhancing the reader s technical expertise and familiarity with design related requirements specification Coverage of both theory and practice brings all of the elements

of database design together in a single volume saving the reader the time and expense of making multiple purchases

*Database Systems for Advanced Applications* Jeffrey Xu Yu, Myoung Ho Kim, Rainer Unland, 2011-04-09 This two volume set LNCS 6587 and LNCS 6588 constitutes the refereed proceedings of the 16th International Conference on Database Systems for Advanced Applications DASFAA 2011 held in Saarbrücken Germany in April 2010 The 53 revised full papers and 12 revised short papers presented together with 2 invited keynote papers 22 demonstration papers 4 industrial papers 8 demo papers and the abstract of 1 panel discussion were carefully reviewed and selected from a total of 225 submissions The topics covered are social network social network and privacy data mining probability and uncertainty stream processing graph XML XML and graph similarity searching and digital preservation spatial queries query processing as well as indexing and high performance

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## **Table of Contents Moving Objects Databases**

1. Understanding the eBook Moving Objects Databases
  - The Rise of Digital Reading Moving Objects Databases
  - Advantages of eBooks Over Traditional Books
2. Identifying Moving Objects Databases
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Moving Objects Databases
  - User-Friendly Interface
4. Exploring eBook Recommendations from Moving Objects Databases
  - Personalized Recommendations
  - Moving Objects Databases User Reviews and Ratings
  - Moving Objects Databases and Bestseller Lists
5. Accessing Moving Objects Databases Free and Paid eBooks
  - Moving Objects Databases Public Domain eBooks
  - Moving Objects Databases eBook Subscription Services
  - Moving Objects Databases Budget-Friendly Options
6. Navigating Moving Objects Databases eBook Formats



- ePub, PDF, MOBI, and More
- Moving Objects Databases Compatibility with Devices
- Moving Objects Databases Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Moving Objects Databases
  - Highlighting and Note-Taking Moving Objects Databases
  - Interactive Elements Moving Objects Databases
- 8. Staying Engaged with Moving Objects Databases
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Moving Objects Databases
- 9. Balancing eBooks and Physical Books Moving Objects Databases
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Moving Objects Databases
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Moving Objects Databases
  - Setting Reading Goals Moving Objects Databases
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Moving Objects Databases
  - Fact-Checking eBook Content of Moving Objects Databases
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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