



Moving Objects Databases

Worcester Polytechnic Institute

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Presented by

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Moving Objects Databases

Ralf Hartmut Güting, Markus Schneider

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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 MOB's 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

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 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 **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 **Introduction to Databases** Peter Revesz,2010-01-11 Introduced forty years ago relational databases proved unusually succe ful 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 di erent directions and speci ized 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 les 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

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

Moving Objects Databases

Ralf Hartmut Güting, 2004

Database and Expert Systems

Applications Vladimir Marik, Werner Retschitzegger, 2003-08-21 This book constitutes the refereed proceedings of the 14th International Conference on Database and Expert Systems Applications DEXA 2003 held in Prague Czech Republic in September 2003 The 91 revised full papers presented together with an invited paper and a position paper were carefully reviewed and selected from 236 submissions The papers are organized in topical sections on XML data modeling spatial database systems mobile computing transactions bioinformatics information retrieval multimedia databases Web applications ontologies object oriented databases query optimization workflow systems knowledge engineering and security

Spatial and Temporal Databases

Mario A. Nascimento, Timos Sellis, Reynold Cheng, Jörg Sander, Yu Zheng, Hans-Peter Kriegel, Matthias Renz, Christian Sengstock, 2013-07-17 This book constitutes the refereed proceedings of the 13th International Symposium on Spatial and Temporal Databases SSTD 2013 held in Munich Germany in August 2013 The 24 revised full papers presented were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on joins and algorithms mining and discovery indexing trajectories and road network data nearest neighbours

queries uncertainty and demonstrations *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 mining Web text mining data mining and knowledge discovery XML database and query processing workflow management E commerce data rehousing P2P systems and applications Grid computing and networking The paper entitled Towards Adaptive Probabilistic Search in Unstructured P2P systems 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 heterogeneous 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 *Methods for Processing Moving Regions in Moving Objects Databases* Florian Heinz,2021 *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

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

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