

Mobile Computing and Databases (modified from ICDE98)

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Databases And Mobile Computing

Evaggelia Pitoura, George Samaras



Databases And Mobile Computing:

Data Management for Mobile Computing Evaggelia Pitoura, George Samaras, 2012-12-06 Earth date August 11 1997
Beam me up Scottie We cannot do it This is not Star Trek s Enterprise This is early years Earth True this is not yet the era of Star Trek we cannot beam captain James T Kirk or captain Jean Luc Picard or an apple or anything else anywhere What we can do though is beam information about Kirk or Picard or an apple or an insurance agent We can beam a record of a patient the status of an engine a weather report We can beam this information anywhere to mobile workers to field engineers to a track loading apples to ships crossing the Oceans to web surfers We have reached a point where the promise of information access anywhere and anytime is close to realization The enabling technology wireless networks exists what remains to be achieved is providing the infrastructure and the software to support the promise Universal access and management of information has been one of the driving forces in the evolution of computer technology Central computing gave the ability to perform large and complex computations and advanced information manipulation Advances in networking connected computers together and led to distributed computing Web technology and the Internet went even further to provide hyper linked information access and global computing However restricting access stations to physical location limits the boundary of the vision *Databases and Mobile Computing* Daniel Barbará, Ravi Jain, N. Krishnakumar, 2007-08-29
Database and Mobile Computing brings together in one place important contributions and up to date research results in this important area Databases and Mobile Computing serves as an excellent reference providing insight into some of the most important research issues in the field *Mobile Database Systems* Vijay Kumar, 2006-07-06 A breakthrough sourcebook to the challenges and solutions for mobile database systems This text enables readers to effectively manage mobile database systems MDS and data dissemination via wireless channels The author explores the mobile communication platform and analyzes its use in the development of a distributed database management system Workable solutions for key challenges in wireless information management are presented throughout the text Following an introductory chapter that includes important milestones in the history and development of mobile data processing the text provides the information tools and resources needed for MDS management including Fundamentals of wireless communication Location and handoff management Fundamentals of conventional database management systems and why existing approaches are not adequate for mobile databases Concurrency control mechanism schemes Data processing and mobility Management of transactions Mobile database recovery schemes Data dissemination via wireless channels Case studies and examples are used liberally to aid in the understanding and visualization of complex concepts Various exercises enable readers to test their grasp of each topic before advancing in the text Each chapter also concludes with a summary of key concepts as well as references for further study Professionals in the mobile computing industry particularly e commerce will find this text indispensable With its extensive use of case studies examples and exercises it is also highly recommended as a graduate level textbook

Replicated Data Management for Mobile Computing Terry Douglas, 2008-06-08 Managing data in a mobile computing environment invariably involves caching or replication. In many cases a mobile device has access only to data that is stored locally and much of that data arrives via replication from other devices, PCs and services. Given portable devices with limited resources, weak or intermittent connectivity and security vulnerabilities, data replication serves to increase availability, reduce communication costs, foster sharing and enhance survivability of critical information. Mobile systems have employed a variety of distributed architectures from client-server caching to peer-to-peer replication. Such systems generally provide weak consistency models in which read and update operations can be performed at any replica without coordination with other devices. The design of a replication protocol then centers on issues of how to record, propagate, order and filter updates. Some protocols utilize operation logs whereas others replicate state. Systems might provide best effort delivery using gossip protocols or multicast or guarantee eventual consistency for arbitrary communication patterns using recently developed pairwise knowledge-driven protocols. Additionally, systems must detect and resolve the conflicts that arise from concurrent updates using techniques ranging from version vectors to read-write dependency checks. This lecture explores the choices faced in designing a replication protocol with particular emphasis on meeting the needs of mobile applications. It presents the inherent trade-offs and implicit assumptions in alternative designs. The discussion is grounded by including case studies of research and commercial systems including Coda, Ficus, Bayou, Sybase's iAnywhere and Microsoft's Sync Framework.

Table of Contents: Introduction, System Models, Data Consistency, Replicated Data, Protocols, Partial Replication, Conflict Management, Case Studies, Conclusions, Bibliography.

Mobile Computing Databases Applications A. Zaslavsky, Balasubramanian Srinivasan, 1996. 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

Building PDA Databases for Wireless and Mobile Development Robert Laberge, Srdjan Vujosevic, 2004-11-18 Introduces the mobile databases their architecture and features and how they operate and handle the essential task of synchronization Explains how the enterprise work force can move to a handheld device and still have easy access to corporate databases Web site contains all source code for working examples of applications showing mobile databases in use Foreword and endorsement by Bill Inmon the Father of Data Warehousing

Fundamentals of Pervasive Information Management Systems Vijay Kumar, 2013-09-16 A comprehensive new edition on mobile computing covering both mobile and sensor data The new paradigm of pervasive computing was born from the needs of highly mobile workers to access and transfer data while on the go Significant advances in the technology have lent and will continue to lend prevalence to its use especially in m commerce Covering both mobile data and sensor data this comprehensive text offers updated research on sensor technology data stream processing mobile database security and contextual processing Packed with cases studies exercises and examples Fundamentals of Pervasive Information Management Systems covers essential aspects of wireless communication and provides a thorough discussion about managing information on mobile database systems MDS It addresses the integration of web and workflow with mobile computing and looks at the current state of research Fundamentals of Pervasive Information Management Systems presents chapters on Mobile Database System Mobile and Wireless Communication Location and Handoff Management Fundamentals of Database Processing Introduction to Concurrency Control Mechanisms Effect of Mobility on Data Processing Transaction Management in Mobile Database Systems Mobile Database Recovery Wireless Information Dissemination Introduction to Sensor Technology Sensor Technology and Data Streams Management Sensor Network Deployment Case Studies Fundamentals of Pervasive Information Management Systems is an ideal book for researchers teachers and graduate students of mobile computing The book may also be used as a reference text for researchers or managers

Database Systems S. K. Singh, 2011 The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application It progresses gradually from basic to advance concepts in database management systems with numerous solved exercises to make learning easier and interesting New to this edition are discussions on more commercial database management systems

Mobile Computing Tomasz Imielinski, Henry F. Korth, 2007-08-26 The rapid development of wireless digital communication technology has created capabilities that software systems are only beginning to exploit The falling cost of both communication and of mobile computing devices laptop computers hand held computers etc is making wireless computing affordable not only to business users but also to consumers Mobile computing is not a scaled down version of the established and we studied field of distributed computing The nature of wireless communication media and the mobility of computers combine to create fundamentally new problems in networking operating systems and information systems Further more many of the applications envisioned for mobile computing place novel demands on software systems Although mobile

computing is still in its infancy some basic concepts have been identified and several seminal experimental systems developed This book includes a set of contributed papers that describe these concepts and systems Other papers describe applications that are currently being deployed and tested The first chapter offers an introduction to the field of mobile computing a survey of technical issues and a summary of the papers that comprise subsequent chapters We have chosen to reprint several key papers that appeared previously in conference proceedings Many of the papers in this book are being published here for the first time Of these new papers some are expanded versions of papers first presented at the NSF sponsored Mobidata Workshop on Mobile and Wireless Information Systems held at Rutgers University on Oct 31 and Nov 1 1994

Transaction Processing in Mobile Database System Nitin P. Prabhu, 2006 Mobile Database System MDS is a distributed system that supports mobility during information processing A new transaction model for MDS is first presented The scope of traditional transaction properties is expanded by introducing new location property to transaction

Database Technologies: Concepts, Methodologies, Tools, and Applications Erickson, John, 2009-02-28 This reference expands the field of database technologies through four volumes of in depth advanced research articles from nearly 300 of the world's leading professionals Provided by publisher

Multidatabases in the Mobile-computing Environment C. Chahadeh, A. R. Hurson, M. Kavehrad, 1997 Abstract The multidatabase system has proved to be efficient in managing information sharing and integration from multiple preexisting heterogeneous databases Its effectiveness lies in the fact that it provides the global user with transparent methods for accessing data from the federation of databases with a single query Furthermore advances in technology and communication have made the realization of a mobile nomadic computing environment a reality Users are capable of accessing computer networks using portable computing devices via a wireless connection and while mobile By superimposing the mobile computing environment onto the multidatabase system a new computing environment is attained This new environment is the multidatabase system enhanced with a new breed of clients These clients are mobile communicate in a wireless format and are characterized by limited resources and energy sources In this work we investigate the effects introduced by the characteristics of the mobile computing environment onto the multidatabase systems More specifically we pinpoint a number of multidatabase system issues impacted by mobile computing for each of the affected issues we analyze the challenges that are brought about and present possible solutions

Distributed Database Systems Chhanda Ray, Ray, 2009 Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology The material is up to date highly readable and illustrated with numerous practical examples The mainstream areas of distributed database technology such as distributed database design distributed DBMS architectures distributed transaction management distributed concurrency control deadlock handling in distributed systems distributed recovery management distributed query processing and optimization data security and catalog management have been covered in detail The popular distributed database systems SDD 1 and R have also been included

Mobile Data

Management and Applications Jin Jing, Anupam Joshi, 2012-12-06 Mobile Data Management and Applications brings together in one place important contributions and up to date research results in this fast moving area Mobile Data Management and Applications serves as an excellent reference providing insight into some of the most challenging research issues in the field

Handbook on Data Management in Information Systems Jacek Błażewicz, Wiesław Kubiak, Tadeusz Morzy, Marek Rusinkiewicz, 2003-07-15 The Handbook provides practitioners scientists and graduate students with a good overview of basic notions methods and techniques as well as important issues and trends across the broad spectrum of data management In particular the book covers fundamental topics in the field such as distributed databases parallel databases advanced databases object oriented databases advanced transaction management workflow management data warehousing data mining mobile computing data integration and the Web Summing up the Handbook is a valuable source of information for academics and practitioners who are interested in learning the key ideas in the considered area Advances in Computer Science and Information Technology. Networks and Communications

Natarajan Meghanathan, Nabendu Chaki, Dhinakaran Nagamalai, 2012-04-23 The three volume set LNICST 84 LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology CCSIT 2012 held in Bangalore India in January 2012 The 66 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on networks and communications wireless and mobile networks and network security

Tenth International Workshop on Database and Expert Systems Applications Antonio Cammelli, A. Min Tjoa, Roland R. Wagner, 1999 Proceedings of the September 1999 workshop on defining requirements for future systems in the areas of database and artificial technologies The 151 contributions discuss innovative applications and new architectures mobility in databases and distributed systems similarity search web based inform Mobile Computing, 2009 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher

Fundamentals of Database Systems Ramez Elmasri, Sham Navathe, 2004 This is a revision of the market leading book for providing the fundamental concepts of database management systems Clear explanation of theory and design topics Broad coverage of models and real systems Excellent examples with up to date introduction to modern technologies Revised to include more SQL more UML and XML and the Internet

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