

Data Management in Mobile Computing

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Data Management For Mobile Computing

Jin Jing, Anupam Joshi



Data Management For 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

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

Data Management for Mobile Computing Evaggelia Pitoura, George Samaras, 2012-01-19 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

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

Replicated Data Management for Mobile Computing Terry Douglas,2022-05-31 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

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

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

Mobile Data Management Kian-Lee Tan, Michael J. Franklin, John C.-S. Lui, 2000-12-13 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
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- 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

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 Blazewicz, Wieslaw Kubiak, Tadeusz Morzy, Marek Rusinkiewicz, 2012-12-06 This book is the sixth of a running series of volumes dedicated to selected topics of information theory and practice The objective of the series is to provide a reference source for problem solvers in business industry government and professional researchers and graduate students The first volume Handbook on Architecture of Information Systems presents a balanced number of contributions from academia and practitioners The structure of the material follows a differentiation between modeling languages tools and methodologies The second volume Handbook on Electronic Commerce examines electronic commerce storefront online business consumer interface business to business networking digital payment legal issues information product development and electronic business models The third volume Handbook on Parallel and Distributed Processing presents basic concepts methods and recent developments in the field of parallel and distributed processing as well as some important applications of parallel and distributed computing In particular the book examines such fundamental issues in the above area as languages for parallel processing parallel operating systems architecture of parallel and distributed systems parallel database and multimedia systems networking aspects of parallel and distributed systems efficiency of parallel algorithms The fourth volume on Information Technologies for Education and Training is devoted to a presentation of current and future research and applications in the field of educational technology The fifth double volume on Knowledge Management contains an extensive fundamental coverage of the knowledge management field

Mobile Data Management Ming-Syan Chen, 2003-01-07 This book constitutes the refereed proceedings of the 4th International Conference on Mobile Data Management MDM 2003 held in Melbourne Australia in January 2003 The 21 revised full papers and 15 revised short papers presented were carefully reviewed and selected from 87 submissions The papers are organized in topical sections on storage management location tracking information management location aware services context aware services resource discovery location management storage management and query processing and context aware information services

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

Data Management Issues in Mobile Computing Ouri Wolfson, Magda el Zarki, 1997 *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

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

MASTER DATA MANAGEMENT AND DATA GOVERNANCE, 2/E Alex Berson, Larry Dubov, 2010-12-06 The latest techniques for building a customer focused enterprise environment The authors have appreciated that MDM is a complex multidimensional area and have set out to cover each of these dimensions in sufficient detail to provide adequate practical guidance to anyone implementing MDM While this necessarily makes the

book rather long it means that the authors achieve a comprehensive treatment of MDM that is lacking in previous works
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test data quality and system performance

Handbook of Data Management, 2nd Edition Bhavani

Thuraisingham,1997-12-16

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Staff,2018-06-25 The conference aims to attract original research contributions in the interesection of mobile computing and
data management Topics of interest include but not limited to Mobile Cloud Computing and Data Management Data
Management for Internet of Things IoT and Sensor Systems Data Management for Augmented Reality Systems Data
Management for Intelligent Transportation Systems Smart Spaces Mobile Crowd Sourcing and Crowd Sensing Mobile Data
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Computing Theoretical Foundations of Data intensive Mobile Computing Data Stream Processing in Mobile Sensor Networks
Indexing Optimisation and Query Processing for Moving Objects Users Security and Privacy in Mobile Systems [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 *Data Management Systems and Mobile Computing* Pradip K. Srimani,Wang-Chien
Lee,Sandeep Gupta,2002 **2017 18th IEEE International Conference on Mobile Data Management (MDM)** IEEE
Staff,2017-05-29 Mobile computing and data management

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