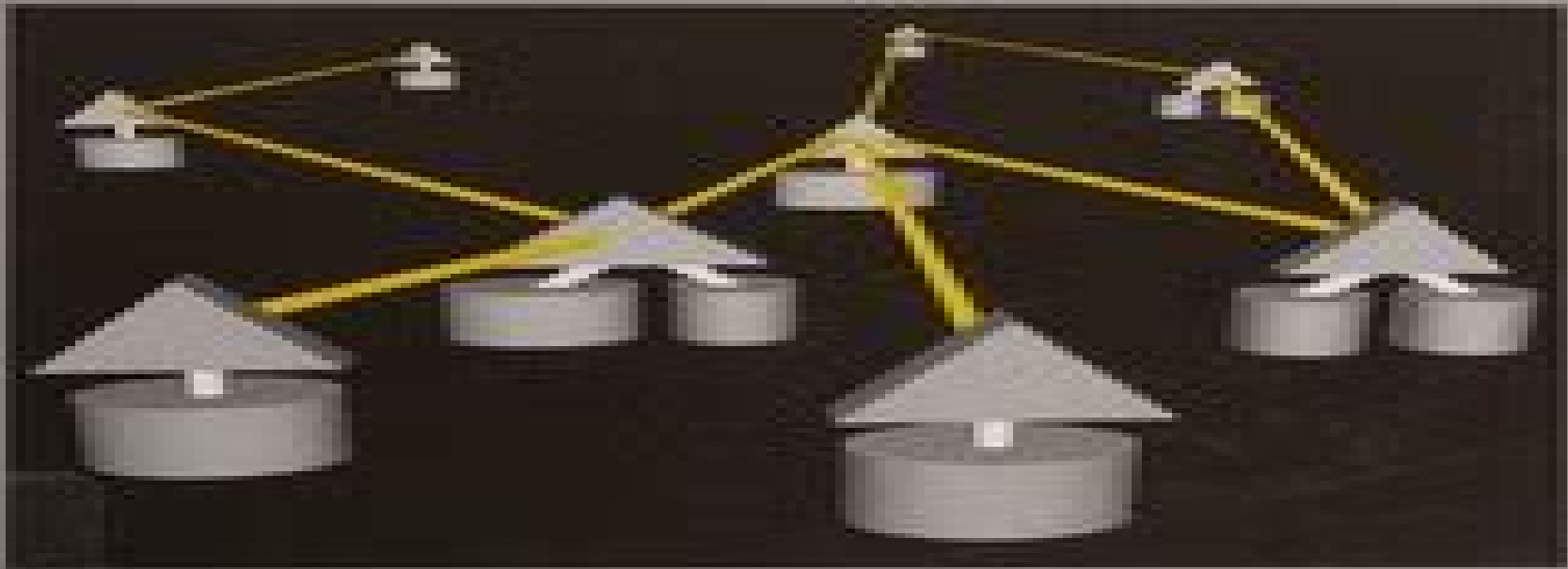


ONTOLOGY-BASED QUERY PROCESSING FOR GLOBAL INFORMATION SYSTEMS

by
Eduardo Mena
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Kluwer Academic Publishers

Ontology Based Query Processing For Global Information Systems

**Matthias Klusch, Sascha
Ossowski, Andrea Omicini, Heimo
Laamanen**

Ontology Based Query Processing For Global Information Systems:

Ontology-Based Query Processing for Global Information Systems Eduardo Mena, Arantza Illarramendi, 2001-07-31

This work is a revision of the doctoral dissertation of Eduardo Mena presented to the Department of Computer Science and System Engineering at the University of Zaragoza Spain in November 1998. Mena 98 The OBSERVER system was developed as a result of this Ph D thesis. This book is composed of eight chapters. In Chapter 1 we introduce our rationale for writing a book about systems that process queries in global information systems. Then in Chapter 2 we review the technological context for our work including distributed and heterogeneous environments and the use of ontologies. We also compare related work to our own. Chapter 3 presents our proposed global system architecture for query processing in global information systems. The main modules in the architecture and the main steps given to process a query are briefly introduced. Chapters 4 through 7 provide a detailed description of each query processing step. In Chapter 4 we detail the steps needed to access the data corresponding to a query formulated over an ontology. All the aspects related to distribution, structural and semantic heterogeneity and restricted query capabilities of the underlying data repositories are considered in this chapter. The main features of the mapping information that relates ontologies and data repositories are also described. Finally we show the process of generating appropriate plans to access each involved repository and the correlation of the answers coming from different repositories.

Ontology-Based Query Processing for Global Information Systems Eduardo Mena, Arantza Illarramendi, 2012-12-06 This work is a revision of the doctoral dissertation of Eduardo Mena presented to the Department of Computer Science and System Engineering at the University of Zaragoza Spain in November 1998. Mena 98 The OBSERVER system was developed as a result of this Ph D thesis. This book is composed of eight chapters. In Chapter 1 we introduce our rationale for writing a book about systems that process queries in global information systems. Then in Chapter 2 we review the technological context for our work including distributed and heterogeneous environments and the use of ontologies. We also compare related work to our own. Chapter 3 presents our proposed global system architecture for query processing in global information systems. The main modules in the architecture and the main steps given to process a query are briefly introduced. Chapters 4 through 7 provide a detailed description of each query processing step. In Chapter 4 we detail the steps needed to access the data corresponding to a query formulated over an ontology. All the aspects related to distribution, structural and semantic heterogeneity and restricted query capabilities of the underlying data repositories are considered in this chapter. The main features of the mapping information that relates ontologies and data repositories are also described. Finally we show the process of generating appropriate plans to access each involved repository and the correlation of the answers coming from different repositories.

Databases and Information Systems Albertas Caplinskas, 2005 Modern databases and information systems essentially differ from their predecessors. Ontology based and knowledge based approaches to system development. UML based IS development methodologies. XML databases and

heterogeneous information models have come to the fore All these fundamental aspects are discussed in this book This publication contains a collection of 22 high quality papers written by 44 authors These articles present original results in modern database technologies database applications data warehousing data mining ontologies and modern information systems Special emphasis is put on multimedia database systems heterogeneous data integration methods view optimizations ontology engineering tools modeling and model transformations MDA Theoretical aspects as well as technical development issues are considered The intended audience for this book is researchers advanced students and practitioners who are interested in advanced topics on databases and information systems

Advanced Information Systems Engineering

Oscar Pastor, João Falcão e Cunha, 2005-05-18 We can now say that it is really a big pleasure for us to welcome all of you to the proceedings of CAiSE 2005 which was held in Porto

Cooperative Information Agents IV - The Future of Information Agents in Cyberspace Matthias Klusch, Larry Kerschberg, 2000-06-21 These are the proceedings of the Fourth

International Workshop on Cooperative Information Agents held in Boston Massachusetts USA July 7-9 2000 Cooperative information agent research and development focused originally on accessing multiple heterogeneous and distributed information sources Gaining access to these systems through Internet search engines application program interfaces wrappers and web based screens has been an important focus of operative intelligent agents Research has also focused on the integration of this information into a coherent model that combined data and knowledge from the multiple sources Finally this information is disseminated to a wide audience giving rise to issues such as data quality information pedigree source reliability information security personal privacy and information value Research in operative information agents has expanded to include agent negotiation agent communities agent mobility as well as agent collaboration for information discovery in constrained environments The interdisciplinary CIA workshop series encompasses a wide variety of topics dealing with cooperative information agents All workshop proceedings have been published by Springer as Lecture Notes in Artificial Intelligence Volumes 1202 1997 1435 1998 and 1652 1999 respectively This year the theme of the CIA workshop was The Future of Information Agents in Cyberspace a very timely topic as the use of agents for information gathering negotiation correlation fusion and dissemination becomes ever more prevalent We noted a marked trend in CIA 2000 towards addressing issues related to communities of agents that 1 negotiate for information resources 2 build robust ontologies to enhance search capabilities 3 communicate for planning and problem solving 4 learn and evolve based on their experiences and 5 assume increasing degrees of autonomy in the control of complex systems

Ontological Engineering

Asunción Gómez-Pérez, Mariano Fernández-López, Oscar Corcho, 2006-04-18 Ontological Engineering refers to the set of activities that concern the ontology development process the ontology life cycle the methods and methodologies for building ontologies and the tool suites and languages that support them During the last decade increasing attention has been focused on ontologies and Ontological Engineering Ontologies are now widely used in Knowledge Engineering Artificial Intelligence and Computer

Science in applications related to knowledge management natural language processing e commerce intelligent integration information information retrieval integration of databases b informatics and education and in new emerging fields like the Semantic Web Primary goals of this book are to acquaint students researchers and developers of information systems with the basic concepts and major issues of Ontological Engineering as well as to make ontologies more understandable to those computer science engineers that integrate ontologies into their information systems We have paid special attention to the influence that ontologies have on the Semantic Web Pointers to the Semantic Web appear in all the chapters but specially in the chapter on ontology languages and tools Ontologies-Based Databases and Information Systems Martine

Collard,2007-09-13 This book constitutes the refereed post proceedings of the First and Second VLDB Workshop Ontologies based techniques for DataBases and Information Systems held in Trondheim Norway September 2005 and Seoul Korea September 2006 The topics include ontology based interoperability and schema matching management of ontological bases and links between ontologies and knowledge *Conceptual Modeling for Advanced Application Domains* Shan

Wang,Katsumi Tanaka,Shuigeng Zhou,Tok Wang Ling,Jihong Guan,Dongqing Yang,Fabio Grandi,Eleni Mangina,Il-Yeol Song,Heinrich C. Mayr,2005-01-14 This book constitutes the refereed joint proceedings of six international workshops held in conjunction with the 23rd International Conference on Conceptual Modeling ER 2004 in Shanghai China in November 2004 The 56 revised full papers presented were carefully reviewed and selected from 163 submissions The papers are organized in topical sections on geographical conceptual modeling spatial storage indexing and data consistency spatial representation and spatial services spatial queries and retrieval Web information integration Web information mining conceptual models for Web information Web information systems and Webservices systems evolution support in conceptual modeling temporal and evolution aspects in Internat based information systems schema evolution and versioning in data management conceptual modeling of agents agents applications digital government systems digital government technologies e business systems requirements engineering and e business processes and infrastructure *Cooperative Information Agents VII* Matthias

Klusch,Sascha Ossowski,Andrea Omicini,Heimo Laamanen,2003-08-14 These are the proceedings of the 7th International Workshop on Cooperative Information Agents CIA 2003 held at the Sonera Conference Center in Helsinki Finland August 27 29 2003 It was co located with the 4th Agentcities Information Days One key challenge of developing advanced agent based information systems is to balance the autonomy of networked data and knowledge sources with the potential payoff of leveraging them by the appropriate use of intelligent information agents on the Internet An information agent is a computational software entity that has access to one or more multiple heterogeneous and distributed data and information sources proactively searches for and maintains relevant information on behalf of its human users or other agents preferably just in time In other words it is managing and overcoming the difficulties associated with information overload in the open and exponentially growing Internet and Web Depending on the application and tasks at hand information agents may collaborate in open n

worked data and information environments to provide added value to a variety of applications in different domains. Thus research and development of information agents is inherently interdisciplinary. It requires expertise in information retrieval, artificial intelligence, database systems, human computer interaction, and Internet and Web technology. Initiated in 1997, the purpose of the annual international workshop series on cooperative information agents (CIA) is to provide an interdisciplinary forum for researchers, software developers, and managers to get informed about present and discuss the latest high quality results in advancements of theory and practice in information agent technology for the Internet and Web. Each event of this renowned series attempts to capture the intrinsic interdisciplinary nature of this research area by calling for contributions from different research communities and by promoting open and informative discussions on all related topics.

Information Sharing on the Semantic Web Heiner Stuckenschmidt, Frank van Harmelen, 2005-11-21. Details recent research in areas such as ontology design for information integration, metadata generation and management and representation and management of distributed ontologies. Provides decision support on the use of novel technologies, information about potential problems and guidelines for the successful application of existing technologies.

Semantic Web Michael Workman, 2015-08-27. This book examines recent developments in semantic systems that can respond to situations and environments and events. The contributors to this book cover how to design, implement, and utilize disruptive technologies. The editor discusses the two fundamental sets of disruptive technologies: the development of semantic technologies including description logics, ontologies, and agent frameworks, and the development of semantic information rendering and graphical forms of displays of high density, time sensitive data to improve situational awareness. Beyond practical illustrations of emerging technologies, the editor proposes to utilize an incremental development method called knowledge scaffolding, a proven educational psychology technique for learning a subject matter thoroughly. The goal of this book is to help readers learn about managing information resources from the ground up and reinforcing the learning as they read on.

Proceedings of IAC-EIaT 2014 collective of authors, 2014-12-02. Conference proceedings, International Academic Conference on Engineering, Internet and Technology in Prague 2014, IAC EIaT 2014 in Prague, Friday-Saturday, December 12-13, 2014.

Handbook of Research on Social Dimensions of Semantic Technologies and Web Services Cruz-Cunha, Maria Manuela, Oliveira, Eva F., Tavares, Antonio J., Ferreira, Luis G., 2009-05-31. This book discusses the new technologies of semantic Web transforming the way we use information and knowledge. Provided by publisher.

On The Move to Meaningful Internet Systems 2003: CoopIS, DOA, and ODBASE Zahir Tari, Douglas C. Schmidt, 2003-10-25. Missions in fact also treat an envisaged mutual impact among them. As for the 2002 edition in Irvine, the organizers wanted to stimulate this cross-pollination with a program of shared famous keynote speakers; this year we got Sycara, Ble Soley, and Mylopoulos, and encouraged multiple attendance by providing authors with free access to another conference or workshop of their choice. We received an even larger number of submissions than last year for the three conferences: 360 in total and the workshops: 170.

in total Not only can we therefore again claim a measurable success in attracting a representative volume of scientific papers but such a harvest allowed the program committees of course to compose a high quality cross section of worldwide research in the areas covered In spite of the increased number of submissions the Program Chairs of the three main conferences decided to accept only approximately the same number of papers for presentation and publication as in 2002 i e around 1 paper out of every 4 5 submitted For the workshops the acceptance rate was about 1 in 2 Also for this reason we decided to separate the proceedings into two volumes with their own titles and we are grateful to Springer Verlag for their collaboration in producing these two books The reviewing process by the respective program committees was very professional and each paper in the main conferences was reviewed by at least three referees

The Semantic Web Vipul Kashyap, Christoph Bussler, Matthew Moran, 2008-09-27 The Semantic Web is a vision the idea of having data on the Web defined and linked in such a way that it can be used by machines not just for display purposes but for automation integration and reuse of data across various applications However there is a widespread misconception that the Semantic Web is a rehash of existing AI and database work Kashyap Bussler and Moran dispel this notion by presenting the multi disciplinary technological underpinnings such as machine learning information retrieval service oriented architectures and grid computing Thus they combine the informational and computational aspects needed to realize the full potential of the Semantic Web vision

On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops R. Meersman, Zahir Tari, 2003-10-30 This book constitutes the joint refereed proceedings of six international workshops held as part of OTM 2003 in Catania Sicily Italy in November 2003 The 80 revised full workshop papers presented together with various abstracts and summaries were carefully reviewed and selected from a total of 170 submissions In accordance with the workshops the papers are organized in topical main sections on industrial issues human computer interface for the semantic Web and Web applications Java technologies for real time and embedded systems regulatory ontologies and the modelling of complaint regulations metadata for security and reliable and secure middleware

On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops Zahir Tari, 2003-10-25 missions in fact also treat an envisaged mutual impact among them As for the 2002 edition in Irvine the organizers wanted to stimulate this cross pollination with a program of shared famous keynote speakers this year we got Sycara ble Soley and Mylopoulos and encouraged multiple attendance by providing authors with free access to another conference or workshop of their choice We received an even larger number of submissions than last year for the three conferences 360 in total and the workshops 170 in total Not only can we therefore again claim a measurable success in attracting a representative volume of scientific papers but such a harvest allowed the program committees of course to compose a high quality cross section of worldwide research in the areas covered In spite of the increased number of submissions the Program Chairs of the three main conferences decided to accept only approximately the same number of papers for presentation and publication as in 2002 i e around 1 paper out of every 4 5 submitted For the workshops the

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Innovating in Product/Process Development Mikel Sorli, Dragan Stokic, 2009-07-01 Innovating in Product Process Development demonstrates how to achieve true innovation in product development and how to launch a new product in the quickest and cheapest way The new approach to product development proposed in this book is based on the most recent research in the field It suggests the integration of several tools that are currently only used independently with the aim of stimulating the creation of innovative ideas in general and specifically in the areas of product process improvements and problem solving Innovating in Product Process Development explores different aspects of innovation processes in twenty first century industry from a global economic perspective It presents in detail several approaches to support these processes from ICT based systems to collaborative working environments all of which will be of interest to MBA or advanced students researchers and design teams charged with the creation of new product lines

Semantic Web Technologies Archana Patel, Narayan C. Debnath, Bharat Bhushan, 2022-10-17 Semantic web technologies SWTs offer the richest machine interpretable rather than just machine processable and explicit semantics that are being extensively used in various domains and industries This book provides a roadmap for semantic web technologies SWTs and highlights their role in a wide range of domains including cloud computing Internet of Things big data sensor network and so forth It also explores the prospects of these technologies including different data interchange formats query languages ontologies Linked Data and notations The role of SWTs in epidemic Covid 19 e learning platforms and systems block chain open online courses and visual analytics in healthcare is described as well This book Explores all the critical aspects of semantic web technologies SWTs Discusses the impact of SWTs on cloud computing Internet of Things big data and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science informatics web technology cloud computing and Internet of Things

Emerging Informatics Shah Jahan Miah, 2012-04-20 The book on emerging informatics brings together the new concepts and applications that will help define and outline problem solving methods and features in designing business and human systems It covers international aspects of information systems design in which many relevant technologies are introduced for the welfare of human and business systems This initiative can be viewed as an emergent area of informatics that helps better conceptualise and design new world class solutions The book provides four flexible sections that accommodate total of fourteen chapters The section specifies learning contexts in emerging fields Each chapter presents a clear basis through the problem conception and its applicable technological solutions I hope this will help further exploration

of knowledge in the informatics discipline

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web a committee formed by the maharashtra government found purandare s portrayal and claims to be without a basis in historical facts in popular culture a 2008 tv show raja shivchatrapati depicting the life of maratha king chhatrapati shivaji maharaj was based on raja shivchatrapati a novel written by babasaheb purandare

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