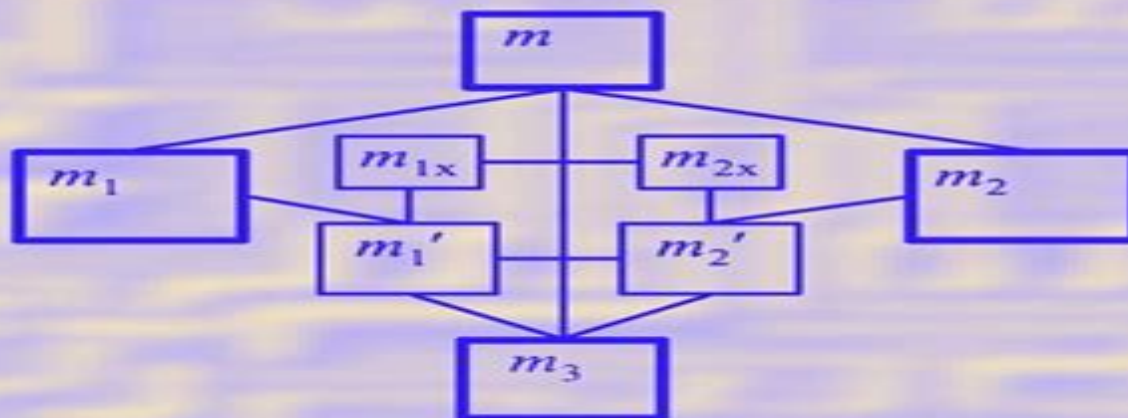


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LNCSE 2967

Generic Model Management

Concepts and Algorithms



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Generic Model Management Concepts And Algorithms

Lecture Notes In Computer Science

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Information Modelling and Knowledge Bases XXX Tatiana Endrjukaite, Alexander Dudko, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2019-01-15 Information modeling and knowledge bases have become essential subjects in the last three decades not only in academic communities related to information systems and computer science but also in the areas of business where information technology is applied This book presents the proceedings of the 28th International Conference on Information Modelling and Knowledge Bases EJC2018 held in Riga Latvia from 4 8 June 2018 The aim of the conference was to bring together experts with a common interest in the understanding and solving of problems on information modelling and knowledge bases as well as those from different areas of computer science and other disciplines who apply the results of research to practice The 39 accepted papers collected here cover a variety of topics including conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing multimedia data modeling and systems and environmental modeling and engineering The book will be of interest to researchers and practitioners alike and to anyone wanting a better understanding of current advances in information technology

Foundations of Data Exchange Marcelo Arenas, Pablo Barceló, Leonid Libkin, Filip Murlak, 2014-03-06 The problem of exchanging data between different databases with different schemas is an area of immense importance Consequently data exchange has been one of the most active research topics in databases over the past decade Foundational questions related to data exchange largely revolve around three key problems how to build target solutions how to answer queries over target solutions and how to manipulate schema mappings themselves The last question is also known under the name metadata management since mappings represent metadata rather than data in the database In this book the authors summarize the key developments of a decade of research Part I introduces the problem of data exchange via examples both relational and XML Part II deals with exchanging relational data Part III focuses on exchanging XML data and Part IV covers metadata management

Handbook of Conceptual Modeling David W. Embley, Bernhard Thalheim, 2012-04-23 Conceptual modeling is about describing the semantics of software applications at a high level of abstraction in terms of structure behavior and user interaction Embley and Thalheim start with a manifesto stating that the dream of developing information systems strictly by conceptual modeling as expressed in the phrase the model is the code is becoming reality The subsequent contributions written by leading researchers in the field support the manifesto's assertions showing not only how to abstractly model complex information systems but also how to formalize abstract specifications in ways that let developers complete programming tasks within the conceptual model itself They are grouped into sections on programming with conceptual models structure modeling process modeling user interface modeling and special challenge areas such as conceptual geometric modeling information integration and biological conceptual modeling The Handbook of Conceptual Modeling collects in a single volume many of the best conceptual modeling ideas techniques and practices as well as the

challenges that drive research in the field Thus it is much more than a traditional handbook for advanced professionals as it also provides both a firm foundation for the field of conceptual modeling and points researchers and graduate students towards interesting challenges and paths for how to contribute to this fundamental field of computer science

Conceptual Modeling - ER 2005 Christian Kop, Heinrich C. Mayr, John Mylopoulos, Oscar Pastor, 2005-11-15 Conceptual modeling is fundamental to any domain where one must cope with complex real world situations and systems because it fosters communication between technology experts and those who would benefit from the application of those technologies Conceptual modeling is the key mechanism for understanding and representing the domains of information system and database engineering but also increasingly for other domains including the new virtual environments and the information systems that support them The importance of conceptual modeling in software engineering is evidenced by recent interest in model driven architecture and extreme programming Conceptual modeling also plays a prominent role in various technical disciplines and in the social sciences The Annual International Conference on Conceptual Modeling referred to as the ER Conference provides a central forum for presenting and discussing current research and applications in which conceptual modeling is the major emphasis In keeping with this tradition ER 2005 the 24th ER Conference spanned the spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling methods and tools for developing and communicating conceptual models and techniques for transforming conceptual models into effective information system implementations Moreover new areas of conceptual modeling including Semantic Web services and the interdependencies of conceptual modeling with knowledge based logical and linguistic theories and approaches were also addressed

Knowledge Service Engineering Handbook Jussi Kantola, Waldemar Karwowski, 2016-04-19 Edited by Jussi Kantola the founding faculty member of the world's first university Knowledge Service Engineering Department at Korea Advanced Institute of Science and Technology and Waldemar Karwowski from the Department of Industrial Engineering and Management Systems at UCF Knowledge Service Engineering Handbook defines what knowledge service

Explainable Artificial Intelligence for Trustworthy Decisions in Smart Applications Nicu Bizon, Bhargav Appasani, 2025-09-30 This book introduces readers to the field of explainable artificial intelligence XAI which aims to make AI models more transparent and trustworthy It explores how XAI can enhance trust and confidence in AI models and their decisions across various innovative applications in fields such as healthcare finance and engineering where AI can significantly impact quality of life Readers will discover emerging trends related to XAI such as large language models generative AI and natural language processing that are transforming the landscape of AI research and applications Featuring an interdisciplinary overview the book examines the state of the art challenges and opportunities in XAI accompanied by clear examples and detailed explanations of its methods and techniques The book also offers a balanced perspective on the limitations and trade offs of XAI and outlines future directions and opportunities for both research and practice This book is intended for anyone who wants to learn more

about XAI and understand how it can enhance trust in AI models

Ontology Matching Jérôme Euzenat, Pavel Shvaiko, 2013-11-08 Ontologies tend to be found everywhere They are viewed as the silver bullet for many applications such as database integration peer to peer systems e commerce semantic web services or social networks However in open or evolving systems such as the semantic web different parties would in general adopt different ontologies Thus merely using ontologies like using XML does not reduce heterogeneity it just raises heterogeneity problems to a higher level Euzenat and Shvaiko's book is devoted to ontology matching as a solution to the semantic heterogeneity problem faced by computer systems Ontology matching aims at finding correspondences between semantically related entities of different ontologies These correspondences may stand for equivalence as well as other relations such as consequence subsumption or disjointness between ontology entities Many different matching solutions have been proposed so far from various viewpoints e.g. databases information systems and artificial intelligence The second edition of *Ontology Matching* has been thoroughly revised and updated to reflect the most recent advances in this quickly developing area which resulted in more than 150 pages of new content In particular the book includes a new chapter dedicated to the methodology for performing ontology matching It also covers emerging topics such as data interlinking ontology partitioning and pruning context based matching matcher tuning alignment debugging and user involvement in matching to mention a few More than 100 state of the art matching systems and frameworks were reviewed With *Ontology Matching* researchers and practitioners will find a reference book that presents currently available work in a uniform framework In particular the work and the techniques presented in this book can be equally applied to database schema matching catalog integration XML schema matching and other related problems The objectives of the book include presenting i the state of the art and ii the latest research results in ontology matching by providing a systematic and detailed account of matching techniques and matching systems from theoretical practical and application perspectives

Proceedings of the Twenty-Fourth ACM

SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems, 2005 *Generic Model Management*

Sergey Melnik, 2004-04-28 Many challenging problems in information systems engineering involve the manipulation of complex metadata artifacts or models such as database schema interface specifications or object diagrams and mappings between models Applications solving metadata manipulation problems are complex and hard to build The goal of generic model management is to reduce the amount of programming needed to solve such problems by providing a database infrastructure in which a set of high level algebraic operators are applied to models and mappings as a whole rather than to their individual building blocks This book presents a systematic study of the concepts and algorithms for generic model management The first prototype of a generic model management system is described the algebraic operators are introduced and analyzed and novel algorithms for implementing them are developed Using the prototype system and the operators presented solutions are developed for several practically relevant problems such as change propagation and reintegration

The British National Bibliography Arthur James Wells,2004 33rd International Conference on Very Large Data Bases,2007 Logic-Based Methods for Optimization John Hooker,2000-05-30 Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks ready for implementation BOOK JACKET **Generic Model Management: Concepts and Algorithms** Sergey Melnik,2005 Many challenging problems in information systems engineering involve the manipulation of complex metadata artifacts or models such as database schema interface specifications or object diagrams and mappings between models Applications solving metadata manipulation problems are complex and hard to build The goal of generic model management is to reduce the amount of programming needed to solve such problems by providing a database infrastructure in which a set of high level algebraic operators are applied to models and mappings as a whole rather than to their individual building blocks This book presents a systematic study of the concepts and algorithms for generic model management The first prototype of a generic model management system is described the algebraic operators are introduced and analyzed and novel algorithms for implementing them are developed Using the prototype system and the operators presented solutions are developed for several practically relevant problems such as change propagation and reintegration *Journal of Database Administration*,2005 Proceedings of the Sixth International Conference on Computer Supported Cooperative Work in Design Institute of Electrical and Electronics Engineers. Canadian Region,Shen Weiming,National Research Council Canada,University of Waterloo,University of Western Ontario,2001 Computer supported co operative work CSCW is a research area that aims at integrating the works of several people involved in a common goal inside a co operative universe through the sharing of resources in an efficient way This report contains the papers presented at a conference on CSCW in design Topics covered include techniques methods and tools for CSCW in design social organization of the CSCW process integration of methods co operation in virtual enterprises and electronic businesses CSCW in design interaction between the CSCW approach and knowledge reuse as found in knowledge management intelligent agent Internet World Wide Web and CSCW in design and applications test beds **26th Annual International Computer Software and Applications Conference** IEEE Computer Society,2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy *Algorithms and Data Structures* ,1999

Proceedings of the Seventeenth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems ACM Special Interest Group for Algorithms and Computation Theory,Association for Computing Machinery. Special Interest

Group on Management of Data,1998 **Object Oriented Methods** Ian Graham,1994 A revision of Ian Graham s successful survey of the whole area of object technology It covers object oriented programming object oriented design object oriented analysis object oriented databases and treats several related technologies New to this edition are more applications of object oriented methods and over twice the material on design and analysis American Book Publishing Record ,2004

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