



Topics in Information Systems

# On Conceptual Modelling

Perspectives from Artificial  
Intelligence, Databases,  
and Programming Languages

Edited by  
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# On Conceptual Modelling Perspectives Fro

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Teniente**



## **On Conceptual Modelling Perspectives Fro:**

On Conceptual Modelling M.L. Brodie,J. Mylopoulos,J.W. Schmidt,2012-12-06 The growing demand for systems of ever increasing complexity and precision has stimulated the need for higher level concepts tools and techniques in every area of Computer Science Some of these areas in particular Artificial Intelligence Databases and Programming Lan guages are attempting to meet this demand by defining a new more abstract level of system description We call this new level conceptual in recognition of its basic conceptual nature In Artificial Intelligence the problem of designing an expert system is seen primarily as a problem of building a knowledge base that repre sents knowledge about an enterprise Consequently Knowledge Repre sentation is viewed as a central issue in Artificial Intelligence research Database design methodologies developed during the last five years are almost unanimous in offering semantic data models in terms of which the designer directly and naturally models an enterprise before proceed ing to a detailed logical and physical database design In Programming Languages different forms of abstraction which allow implementation independent specifications of data functions and control have been a major research theme for a decade To emphasize the common goals of these three research efforts we call this new activity conceptual modelling *Conceptual Modeling Perspectives* Jordi Cabot,Cristina Gómez,Oscar Pastor,Maria Ribera Sancho,Ernest Teniente,2017-10-12 Conceptual modeling has always been one of the main issues in information systems engineering as it aims to describe the general knowledge of the system at an abstract level that facilitates user understanding and software development This collection of selected papers provides a comprehensive and extremely readable overview of what conceptual modeling is and perspectives on making it more and more relevant in our society It covers topics like modeling the human genome blockchain technology model driven software development data integration and wiki like repositories and demonstrates the general applicability of conceptual modeling to various problems in diverse domains Overall this book is a source of inspiration for everybody in academia working on the vision of creating a strong fruitful and creative community of conceptual modelers With this book the editors and authors want to honor Prof Antoni Oliv for his enormous and ongoing contributions to the conceptual modeling discipline It was presented to him on the occasion of his keynote at ER 2017 in Valencia a conference that he has contributed to and supported for over 20 years Thank you very much to Antoni for so many years of cooperation and friendship 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: Foundations and Applications** Alex T. Borgida, Vinay Chaudhri, Paolo Giorgini, Eric Yu, 2009-07-06 This Festschrift volume published in honor of John Mylopoulos on the occasion of his retirement from the University of Toronto contains 25 high quality papers written by leading scientists in the field of conceptual modeling The volume has been divided into six sections The first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation The four sections on software and requirements engineering information systems information integration and web and services represent the chief current application domains of conceptual modeling Finally the section on implementations concentrates on projects that build tools to support conceptual modeling With its in depth coverage of diverse topics this book could be a useful companion to a course on conceptual modeling

**Conceptual Modeling - ER 2011** Manfred Jeusfeld, Lois Delcambre, Tok Wang Ling, 2011-10-12 This book constitutes the refereed proceedings of the 30th International Conference on Conceptual Modeling ER 2011 held in Brussels Belgium in October November 2011 The 25 revised full papers presented together with 14 short papers and three keynotes were carefully reviewed and selected from 157 submissions The papers are organized in topical sections on modeling goals and compliance human and socio technical factors ontologies data model theory model development and maintainability user interfaces and software classification evolution propagation and refinement UML and requirements modeling views queries and search requirements and business intelligence MDA and ontology based modeling process modeling panels

**Conceptual Modeling - ER 2010** Jeffrey Parsons, Motoshi Saeki, Peretz Shoval, Carson Woo, Yair Wand, 2010-10-19 This book constitutes the refereed proceedings of the 29th International Conference on Conceptual Modeling ER 2010 held in Vancouver BC Canada in November 2010 The 32 revised full papers presented were carefully reviewed and selected from 147 submissions The papers are organized in topical sections on business process modeling requirements engineering and modeling 1 requirements engineering and modeling 2 data evolution and adaptation operations on spatio temporal data demos and posters model abstraction feature modeling and filtering integration and composition consistency satisfiability and compliance checking using ontologies for query answering and document and query processing

**Conceptual Modeling - ER 2007** Christine Parent, 2007-10-15 This book constitutes the refereed proceedings of the 26th International Conference on Conceptual Modeling ER 2007 Coverage in the papers includes data

warehousing and data mining design methodologies and tools information and database integration information modeling concepts and ontologies integrity constraints logical foundations of conceptual modeling patterns and conceptual meta modeling semi structured data and XML as well as Web information systems and XML Information Modelling and Knowledge Bases IV Hannu Kangassalo, Hannu Jaakkola, 1993 *Conceptual Modeling - ER 2008* Qing Li, Stefano Spaccapietra, Eric Yu, Antoni Olivé, 2008-10-13 Conceptual modeling has long been recognized as the primary means to enable software development in information systems and data engineering Conceptual modeling provides languages methods and tools to understand and represent the application domain to elicit conceptualize and formalize system requirements and user needs to communicate systems designs to all stakeholders and to formally verify and validate systems design on high levels of abstraction The International Conference on Conceptual Modeling provides a premiere forum for presenting and discussing current research and applications in which the major emphasis is on conceptual modeling Topics of interest span the entire 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 implementations The scientific program of ER 2008 featured several activities running in parallel The core activity was the presentation of the 33 research papers published in this volume which were selected by a large Program Committee PC Co chaired by Qing Li Stefano Spaccapietra and Eric Yu We thank the PC Co chairs the PC members and the additional referees for the hard work done often within a short time Thanks are also due to Moira Norrie from ETH Zurich Oscar Pastor from the Universitat Politècnica de València and Amit Sheth from the Wright State University for accepting our invitation to present keynotes **Intentional Perspectives on Information Systems Engineering** Selmin Nurcan, Camille Salinesi, Carine Souveyet, Jolita Ralyté, 2010-06-17 Requirements engineering has since long acknowledged the importance of the notion that system requirements are stakeholder goals rather than system functions and ought to be elicited modeled and analyzed accordingly In this book Nurcan and her co editors collected twenty contributions from leading researchers in requirements engineering with the intention to comprehensively present an overview of the different perspectives that exist today in 2010 on the concept of intention in the information systems community These original papers honor Colette Rolland for her contributions to this field as she was probably the first to emphasize that intention has to be considered as a first class concept in information systems engineering Written by long term collaborators and most often friends of Colette Rolland this volume covers topics like goal oriented requirements engineering model driven development method engineering and enterprise modeling As such it is a tour d'horizon of Colette Rolland's lifework and is presented to her on the occasion of her retirement at CaISE 2010 in Hammamet the conference she once cofounded and which she helped to grow and prosper for more than 20 years Human Simulation: Perspectives, Insights, and Applications Saikou Y. Diallo, Wesley J. Wildman, F. LeRon Shults, Andreas Tolk, 2019-08-01 This uniquely

inspirational and practical book explores human simulation which is the application of computational modeling and simulation to research subjects in the humanities disciplines. It delves into the fascinating process of collaboration among experts who usually don't have much to do with one another: computer engineers and humanities scholars from the perspective of the humanities scholars. It also explains the process of developing models and simulations in these interdisciplinary teams. Each chapter takes the reader on a journey presenting a specific theory about the human condition, a model of that theory, discussion of its implementation, analysis of its results, and an account of the collaborative experience. Contributing authors with different fields of expertise share how each model was validated, discuss relevant datasets, explain development strategies, and frankly discuss the ups and downs of the process of collaborative development. Readers are given access to the models and will also gain new perspectives from the authors' findings, experiences, and recommendations. Today we are in the early phases of an information revolution combining access to vast computing resources, large amounts of human data through social media, and an unprecedented richness of methods and tools to capture, analyze, explore, and test hypotheses and theories of all kinds. Thus, this book's insights will be valuable not only to students and scholars of humanities subjects but also to the general reader and researchers from other disciplines who are intrigued by the expansion of the information revolution all the way into the humanities departments of modern universities.

*Conceptual Modeling - ER 2005* Christian Kop, Heinrich C. Mayr, John Mylopoulos, Óscar Pastor, 2005-10-11 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.

**Perspectives on Business Modelling** Anders G. Nilsson, Christofer Tolis, Christer Nellborn, 2012-12-06 How can established models and methods be employed for the understanding and change of organisations? One of the key issues

presented in this book is bridging the communication gap between business leaders and IT experts in companies and public services This is facilitated by combining different models for the development of corporate strategies business processes and information support The leading idea behind this book is to present different perspectives on business modelling based on established theories and practical experiences The book offers advanced knowledge and relevant information on the key issues in business modelling for today's organisations

*Advances in Biomedical Measurement* E.R. Carson, P. Kneppo, I. Krekule, 2012-12-06 The current scientific and technical literature in the fields of medicine and engineering in addition to learned society journals embraces textbooks monographs and conference proceedings The last of these categories is potentially of prime importance given the increasing pace at which knowledge is advancing However traditional conference proceedings often tend to be indigestible both due to their excessive volume and to the unevenness of the ingredients Here we have attempted to overcome these deficiencies by selecting a set of contributions which in our opinion in the best sense convey the flavour of the 4th IMEKO Conference on Advances in Biomedical Measurement This meeting which took place in Bratislava in May 1987 was held concurrently with the 1st Regional Conference of the Socialist European Countries on Biomedical Engineering and the 2nd Czechoslovak Conference on Biomedical Engineering From more than 200 papers presented in 14 sessions 56 contributions have been selected to represent four major areas within which advances in biomedical measurement are occurring These are measurement and instrumentation including prosthetics signal and image processing modelling and simulation and decision support The process of deciding which authors should be invited to contribute to this volume was not always easy What we have tried to do is to achieve a mix which provides an overview of the state of the art across this broad spectrum of endeavour

**OOER '95 Object-Oriented and Entity-Relationship**

**Modeling** M. Papazoglou, 1995-11-23 This volume constitutes the refereed proceedings of the 14th International Conference on Object Oriented and Entity Relationship Modelling OOER 95 held in Gold Coast Australia in December 1995 The 36 papers presented together with an invited presentation by Gio Wiederhold were selected from a total of 120 submissions The papers are organized in sections on object design and modelling models and languages reverse engineering and schema transformation behavioral modelling non traditional modelling theoretical foundations business re engineering integrated approaches cooperative work modelling temporal data modelling federated systems design and industrial stream papers

*Reference Modeling for Business Systems Analysis* Fettke, Peter, Loos, Peter, 2006-10-31 This book provides insights into state of the art modeling languages and methods used for reference modeling A reference model provides a blueprint for information systems development and analysis Well established reference models for industrial retail and other industries are described Provided by publisher

**Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles** Robert Cassidy, Elizabeth S. Charles, James D. Slotta, Nathaniel Lasry, 2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based

pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

### **Conceptual Modeling - ER 2000**

Alberto H.F. Laender, Stephen W. Liddle, Veda Storey, 2000-09-20 This book constitutes the refereed proceedings of the 19th International Conference on Conceptual Modeling ER 2000 held in Salt Lake City Utah USA in October 2000 The 37 revised full papers presented together with three invited papers and eight industrial abstracts were carefully reviewed and selected from a total of 140 submitted papers The book offers topical sections on database integration temporal and active database modeling database and data warehouse design techniques analysis patterns and ontologies Web based information systems business process modeling conceptual modeling and XML engineering and multimedia application modeling object oriented modeling applying object oriented technology quality in conceptual modeling and application design using UML

*Advanced Information Systems Engineering* Rudolf Andersen, Janis Bubenko, 1991-04-30 Proceedings **Proceedings 1989 VLDB Conference** Petrus Maria Gerardus Apers, Gio Wiederhold, 1989-12 Proceedings of the 15th International Conference see title August 1989 Amsterdam The Netherlands Contains forty five papers from worldwide contributors which explore fundamental issues and current developments parallelism interfaces statistics and programming languages



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