

David W. Embley
Bernhard Thalheim
(Eds.)

Handbook of Conceptual Modeling

Theory, Practice, and Research Challenges



Springer

Handbook Of Conceptual Modeling Theory Practice And Research Challenges

**Andreas Prinz, Birger Møller-
Pedersen, Joachim Fischer, Bernhard
Thalheim**



Handbook Of Conceptual Modeling Theory Practice And Research Challenges:

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

Handbook of Conceptual Modeling David W. Embley, Bernhard Thalheim, 2014-10-14 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 Juan C. Trujillo, Karen C. Davis, Xiaoyong Du, Zhanhuai Li, Tok Wang Ling, Guoliang Li, Mong Li Lee, 2018-09-25 This book constitutes the refereed proceedings of the 37th International Conference on Conceptual Modeling ER 2018 held in Xi'an China in October 2018 The 30 full and 13 short papers presented together with 3 keynotes were carefully reviewed and selected from

151 submissions This events covers a wide range of following topics Conceptual modeling studies ontological modeling semi structured data modeling process modeling and management spatio temporal modeling cloud based modeling schema and view modeling languages and models NoSQL modeling conceptual modeling for machine learning and reasoning applications of conceptual modeling

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

Research Challenges in Information Science Jānis Grabis, Tanja E. J. Vos, Maria José Escalona, Oscar Pastor, 2025-06-16 The two volume set LNBIP 547 and LNBIP 548 constitutes the proceedings of the 19th International Conference on Research Challenges in Information Sciences RCIS 2025 which took place in Seville Spain in May 2025 It focused on the special theme Advancing Information Science and Information Systems Quality in the Era of Complexity The scope of RCIS is summarized by the thematic areas of information systems and their engineering user oriented approaches data and information management business process management domain specific information systems engineering data science information infrastructures and reflective research and practice The 33 full papers and 13 short papers included in the proceedings were carefully reviewed and selected from 103 submissions They were organized in topical sections as follows Part I Information systems quality security risk and strategy conceptual modeling and ontologies modeling methods and requirements engineering databases information management human factors in information systems business process engineering and management Part II Machine learning and generative AI applications RCIS Forum and RCIS Doctoral Consortium

Conceptual Modeling Paul Johannesson, Mong Li Lee, Stephen W. Liddle, Andreas L. Opdahl, Óscar Pastor López, 2015-10-09 This book constitutes the refereed proceedings of the 34th International Conference on Conceptual Modeling ER 2015 held in Stockholm Sweden in October 2015 The 26 full and 19 short papers presented were carefully reviewed and selected from 131 submissions The papers are organized in topical sections on business process and goal models ontology based models and ontology patterns constraints normalization

interoperability and integration collaborative modeling variability and uncertainty modeling modeling and visualization of user generated content schema discovery and evolution process and text mining domain based modeling data models and semantics and applications of conceptual modeling

Research Handbook on Health Information Systems Kathleen Gray,Reeva Lederman,2025-02-12 This Research Handbook provides comprehensive explanations and examples of theoretical frameworks and practical methods to support the design and conduct of high quality health information systems research

Conceptual Modelling and Its Theoretical Foundations Antje Düsterhöft,Meike Klettke,Klaus-Dieter Schewe,2012-02-17 This Festschrift published in honor of Bernhard Thalheim on the occasion of his 60th birthday presents 20 articles by colleagues from all over the world with whom Bernhard Thalheim had cooperation in various respects also included is a scientific biography contributed by the volume editors The 20 contributions reflect the breadth and the depth of the work of Bernhard Thalheim in conceptual modeling and database theory during his scientific career spanning more than 35 years of active research In particular ten articles are focusing on topics like database dependency theory object oriented databases triggers abstract state machines database and information systems design web semantics and business processes

The Practice of Enterprise Modeling Jolita Ralyté,Sergio España,Óscar Pastor,2015-10-27 This volume constitutes the proceedings of the 8th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2015 in Valencia Spain The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector The 23 short papers accepted were carefully reviewed and selected from 72 submissions and are organized in eight sections on Evolving Enterprises Securing Enterprises Making Empirical Studies Investigating Enterprise Methods Acquiring User Information Managing Risks and Threats Engineering Methods and Making Decisions in Enterprises

Domain-Specific Conceptual Modeling Dimitris Karagiannis,Moonkun Lee,Knut Hinkelmann,Wilfrid Utz,2022-03-10 This book demonstrates the significance of domain specific conceptual modeling through new research and development approaches that are manifested in each of the chapters They include novel modelling methods and tools that emphasize the recent results accomplished and their adequacy to assess specific aspects of a domain Each chapter offers detailed instructions on how to build models in a particular domain such as product service engineering enterprise engineering digital business ecosystems and enterprise modelling and capability management All chapters are enriched with case studies related information and tool implementations The tools are based on the ADOxx metamodeling platform and are provided free of charge via OMILAB Furthermore the book emphasizes possible future developments and potential research directions The collection of works presented here will benefit experts and practitioners from academia and industry alike including members of the conceptual modeling community as well as lecturers and students

Digital Scholarly Editions Beyond Text Tessa Gengnagel,2024-02-07 Scholarly editions contextualize our cultural heritage Traditionally methodologies from the field of scholarly editing are applied to works of

literature e.g. in order to trace their genesis or present their varied history of transmission. What do we make of the variance in other types of cultural heritage? How can we describe, record and reproduce it systematically? From medieval to modern times, from image to audiovisual media, the book traces discourses across different disciplines in order to develop a conceptual model for scholarly editions on a broader scale. By doing so, it also delves into the theory and philosophy of the digital humanities as such.

Informatics in Economy Gheorghe Cosmin Silaghi, Robert Andrei Buchmann, Catalin Boja, 2017-12-27. This book constitutes revised selected papers from the 15th International Conference on Informatics in Economy IE 2016 held in Cluj Napoca, Romania, in June 2016. The 10 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 31 extended paper submissions for this book. They are organized in sections on Distributed Systems, Information Systems, Adoption, Knowledge Representation and Processing, Domain specific Data Analysis and Computational Models. The volume also contains one invited keynote paper in full paper length.

Advances in Conceptual Modeling Giancarlo Guizzardi, Frederik Gailly, Rita Suzana Pitangueira Maciel, 2019-10-26. This book constitutes the refereed proceedings of five workshops/symposia held at the 38th International Conference on Conceptual Modeling ER 2019 in Salvador, Brazil, in November 2019. The 34 papers promote and disseminate research on theories of concepts underlying conceptual modeling methods and tools for developing and communicating conceptual models, techniques for transforming conceptual models into effective implementations, and the impact of conceptual modeling techniques on databases, business strategies, and information systems. The following workshops are included in this volume: Workshop on Conceptual Modeling, Ontologies and Metadata Management for FAIR Data, FAIR 6th Workshop on Conceptual Modeling in Requirements Engineering and Business Analysis, MREBA 2nd International Workshop on Empirical Methods in Conceptual Modeling, EmpER 8th International Workshop on Modeling and Management of Big Data, MoBiD19, and 7th International Workshop on Ontologies and Conceptual Modelling, OntoCom.

The Practice of Enterprise Modeling Robert Andrei Buchmann, Dimitris Karagiannis, Marite Kirikova, 2018-10-25. This volume constitutes the proceedings of the 11th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in October/November 2018 in Vienna, Austria. The conference was created by the International Federation for Information Processing (IFIP) Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 21 full papers and 5 short papers accepted were carefully reviewed and selected from 64 submissions. They are grouped by the following topics: business process modeling, model derivation, collaboration modeling, reviews and analyses of modeling methods, semantics and reasoning, experience reports, and teaching challenges.

Finitely Presented Groups Volker Diekert, Martin Kreuzer, 2024-10-07. This book contains surveys and research articles on the state of the art in finitely presented groups for researchers and graduate students. Overviews of current trends in exponential groups and of the classification of finite triangle groups and finite generalized tetrahedron groups are complemented by new results on a conjecture of Rosenberger.

and an approximation theorem A special emphasis is on algorithmic techniques and their complexity both for finitely generated groups and for finite Z algebras including explicit computer calculations highlighting important classical methods A further chapter surveys connections to mathematical logic in particular to universal theories of various classes of groups and contains new results on countable elementary free groups Applications to cryptography include overviews of techniques based on representations of p groups and of non commutative group actions Further applications of finitely generated groups to topology and artificial intelligence complete the volume All in all leading experts provide up to date overviews and current trends in combinatorial group theory and its connections to cryptography and other areas

Modelling to Program

Ajantha Dahanayake, Oscar Pastor, Bernhard Thalheim, 2021-03-30 This book constitutes revised selected papers from the Second International Workshop on Modelling to Program M2P 2020 held in Lappeenranta Finland in March 2020 The 10 papers presented were thoroughly reviewed and selected from 24 submissions The papers provide a discussion on novel approaches to programming based on modelling approaches such as model driven development MDE MDA MDD and conceptual model programming and their future developments The topics of the papers include notions of models that can be understood and used as programs models at runtime advanced conceptual modelling conceptual model programming modelling foundation transformation of models to programs model suites ensembles for programmers modelling as the first step to programming and its revisions advanced model driven programming and software modernisation modelling in applications

Understanding Modelling and Programming

Andreas Prinz, Birger Møller-Pedersen, Joachim Fischer, Bernhard Thalheim, 2024-12-29 This book provides a concise overview of modelling and programming by presenting their essential concepts It enables the reader to better understand the relationships between modelling and programming by describing abstract properties desired behaviours intended structures needed interactions and other specific viewpoints on the overall system under development After an introduction to the importance of modelling and programming in the scope of system engineering in chapter 1 the book provides four main chapters covering systems models specifications and programs each of them with a set of reflection exercises Chapter 2 explores how systems relate to reality exploring different perspectives related to the purpose of the system Chapter 3 explains what it takes to be a model and how models and systems are related and concludes with discussing model semantics meaning and correctness In Chapter 4 specifications are debated which are precise descriptions of models and systems It presents the language constructs needed to describe systems and shows how the constructs can be expressed in concrete languages considering both the structure and the behaviour of models Chapter 5 considers the creation simulation and correct execution of specifications model descriptions or programs Eventually Chapter 6 presents a collection of real world modelling cases Apart from describing the case the concepts of the book are applied to the case thus giving a better understanding of the concepts The book is carefully designed to explain modelling and programming concepts their relationships and their use Written for computer science

students and lecturers it covers systems modelling programming simulation and semantics

Design and Development of Web Information Systems Klaus-Dieter Schewe, Bernhard Thalheim, 2019-04-01 This book describes the research of the authors over more than a decade on an end to end methodology for the design and development of Web Information Systems WIS It covers syntactics semantics and pragmatics of WIS introduces sophisticated concepts for conceptual modelling provides integrated foundations for all these concepts and integrates them into the co design method for systematic WIS development WIS i e data intensive information systems that are realized in a way that arbitrary users can access them via web browsers constitute a prominent class of information systems for which acceptance by its a priori unknown users in varying contexts with respect to the presented content the ease of functionality provided and the attraction of the layout adds novel challenges for modelling design and development This book is structured into four parts Part I Web Information Systems General Aspects gives a general introduction to WIS describing the challenges for their development and provides a characterization by six decisive aspects intention usage content functionality context and presentation Part II High Level WIS Design Strategic Analysis and Usage Modelling with Storyboarding introduces methods for high level design of WIS covering strategic aspects and the storyboarding method which is discussed from syntactic semantic and pragmatic perspectives Part III Conceptual WIS Design Rigorous Modelling of Web Information Systems and their Layout with Web Interaction Types and Screenography continues with conceptual design of WIS including layout and playout This introduces the decisive web interaction types the screenography method and adaptation aspects The final Part IV Rationale of the Co Design Methodology and Systematic Development of Web Information Systems describes the co design method for WIS development and its application for the systematic engineering of systems The book addresses the research community and at the same time can be used for education of graduate students and as methodological support for professional WIS developers For the WIS research community it provides methods for WIS modelling on all levels of abstraction including theoretical foundations and inference mechanisms as well as a sophisticated end to end methodology for systematic WIS engineering from requirements elicitation over conceptual modelling to aspects of implementation layout and playout For students and professional developers the book can be used as a whole for educational courses on WIS design and development as well as for more specific courses on conceptual modelling of WIS WIS foundations and reasoning co design and WIS engineering or WIS layout and playout development

Conceptual Modeling - ER 2011 Manfred Jeusfeld, Lois Delcambre, Tok Wang Ling, 2011-10-26 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 Towards the Multilingual Semantic Web Paul Buitelaar, Philipp Cimiano, 2014-11-13 To date the relation between multilingualism and the Semantic Web has not yet received enough attention in the research community One major challenge for the Semantic Web community is to develop architectures frameworks and systems that can help in overcoming national and language barriers facilitating equal access to information produced in different cultures and languages As such this volume aims at documenting the state of the art with regard to the vision of a Multilingual Semantic Web in which semantic information will be accessible in and across multiple languages The Multilingual Semantic Web as envisioned in this volume will support the following functionalities 1 responding to information needs in any language with regard to semantically structured data available on the Semantic Web and Linked Open Data LOD cloud 2 verbalizing and accessing semantically structured data ontologies or other conceptualizations in multiple languages 3 harmonizing integrating aggregating comparing and repurposing semantically structured data across languages and 4 aligning and reconciling ontologies or other conceptualizations across languages The volume is divided into three main sections Principles Methods and Applications The section on Principles discusses models architectures and methodologies that enrich the current Semantic Web architecture with features necessary to handle multiple languages The section on Methods describes algorithms and approaches for solving key issues related to the construction of the Multilingual Semantic Web The section on Applications describes the use of Multilingual Semantic Web based approaches in the context of several application domains This volume is essential reading for all academic and industrial researchers who want to embark on this new research field at the intersection of various research topics including the Semantic Web Linked Data natural language processing computational linguistics terminology and information retrieval It will also be of great interest to practitioners who are interested in re examining their existing infrastructure and methodologies for handling multiple languages in Web applications or information retrieval systems

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