

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

David W. Embley, 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 *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 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 event 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 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

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 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

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

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

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

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

Hagenberg Business Process Modelling Method Felix Kossak, Christa Illibauer, Verena Geist, Christine Natschläger, Thomas Ziehermayr, Bernhard Freudenthaler, Theodorich Kopetzky, Klaus-Dieter Schewe, 2016-04-27 This book presents a proposal for designing business process management BPM systems that comprise much more than just process modelling Based on a purified Business Process Model and Notation BPMN variant the authors present proposals for several important issues in BPM that have not been adequately considered in the BPMN 2.0 standard It focusses on modality as well as actor and user interaction modelling and offers an enhanced communication concept In order to render models executable the semantics of the modelling language needs to be described rigorously enough to prevent deviating interpretations by different tools For this reason the semantics of the necessary concepts introduced in this book are defined using the Abstract State Machine ASM method Finally the authors show how the different parts of the model fit together using a simple example process and introduce the enhanced Process Platform eP2 architecture which binds all the different components together

The resulting method is named Hagenberg Business Process Modelling H BPM after the Austrian village where it was designed The motivation for the development of the H BPM method stems from several industrial projects in which business analysts and software developers struggled with redundancies and inconsistencies in system documentation due to missing integration The book is aimed at researchers in business process management and industry 4 0 as well as advanced professionals in these areas

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

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

Modelling and Simulations for Tourism and Hospitality Jacopo A. Baggio, Rodolfo Baggio, 2020-01-17 This book aims to shed light on the use of various modelling tools and simulation techniques in the domains of tourism and hospitality It offers an essential introduction to the most popular methods used for modelling and simulating systems and phenomena of interest and an overview of these techniques and methods The main concept of each technique and method is examined and case studies and links to free online tutorials and other helpful resources are provided The volume aims to encourage students researchers and practitioners in tourism and hospitality to enhance and enrich their toolbox in order to achieve a better and more profound knowledge of their field

A Handbook for Caring Science William Rosa, Sara Horton-Deutsch, Jean Watson, 2018-09-28 A monumental compendium of Caring Science past present and future This groundbreaking work is an encyclopedic reference on the full spectrum of Human Caring Science With contributions from highly accomplished scholars

and practitioners from six continents it spans the evolution of Caring Science from its origins 40 years ago through its ongoing innovation and development and into the future Comprehensive and in depth this resource brings multigenerational perspectives to Caring Science and demonstrates its ethical nursing applications across cross cultural settings worldwide The book s broad scope embodies the paradigm s theoretical foundations guidance from Caring Science educators and researchers and practice insights from expert clinicians and administrators It offers strategies to influence meaningful policy change integrate principles throughout cross cultural and global settings and introduces inspiring voices from luminaries in coaching Caring Science creative arts spirituality and self care The text clearly demonstrates how theories frameworks and paradigms are directly integrated into practice research and educational settings Scholarly narratives and discourses on Caring Science will facilitate understanding of how to transform systems with a caring consciousness and ethically informed action Chapters consistently formatted to promote ease of comprehension include exemplars with reflective questions and references

Key Features Traces the history of Caring Science and merges it with current and future perspectives Provides a how to guide for understanding the integration of theories frameworks and paradigms into practice research and education Distills a vision of how to transform systems with a caring consciousness and a commitment to ethically informed action Enables readers to cross reference Caring Science leaders across specialties Illustrates Caring Science practice through case studies examples and discourses Supports hospitals in procuring or maintaining ANCC Magnet certification Identifies research and practice opportunities for readers to integrate Caring Science into their professional milieus

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 12018 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

Human Systems Engineering and Design Tareq Ahram,Waldemar Karwowski,Darko Etinger,Tea Mija?,2024-09-24 Proceedings of the 6th International Conference on Human Systems Engineering and Design Future Trends and Applications IHSED 2024 September 24-26 2024 University of Split Split Croatia

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