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Jelena Zdravkovic (Eds.)**

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Conceptual Modeling

**42nd International Conference, ER 2023
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Proceedings**



Nice Conceptual Modeling International Conference Proceedings

Paolo Atzeni, David Cheung, Sudha Ram

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Conceptual Modeling - ER 2000 International Conference on Conceptual Modeling,2000 [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

Hybrid Modeling and Simulation Masoud Fakhimi,Navonil Mustafee,2024-08-23 The unique book advances understanding of modelling complex systems using hybrid approaches that combine discrete event agent based and system dynamic simulations with research approaches and artefacts from other scientific disciplines As systems become increasingly large and complex it is a challenge to capture the intricacies of the underlying system and offer novel forms of analysis using only models that employ a single simulation technique The book underscores the importance of both hybrid simulation employing techniques primarily developed in the field of modelling and simulation and hybrid modelling incorporating simulation with methods from wider disciplines such as applied computing data science engineering and soft qualitative operations research Furthermore the text aims to inspire further research and practice fostering the growth of cross disciplinary hybrid models Topics and features Provides a comprehensive overview of hybrid modelling and simulation including methodological extensions and novel applications Features case studies and examples demonstrating the synergy realized by applying hybrid methods Calls for innovation and growth of the discipline by incorporating diverse scientific perspectives Encourages adoption of interdisciplinary methods to engender improved insights from simulation studies Promotes interdisciplinary collaboration pushing modelling and simulation into new research and application areas This comprehensive volume will appeal to researchers academics students and practitioners who seek to advance their modelling and simulation work The book also will serve as a reference informing research communities of the potential of hybrid models that combine simulation with disciplinary research artefacts methods and approaches

Conceptual Modeling - ER 2001 Hideko S. Kunii, Sushil Jajodia, Arne Sølvberg, 2001 **Information and Database**

Quality Mario G. Piattini, Coral Calero, Marcela F. Genero, 2012-12-06 In a global and increasingly competitive market where organizations are driven by information the search for ways to transform data into true knowledge is critical to a business's success. Few companies however have effective methods of managing the quality of this information. Because quality is a multidimensional concept its management must consider a wide variety of issues related to information and data quality. Information and Database Quality is a compilation of works from research and industry that examines these issues covering both the organizational and technical aspects of information and data quality. Information and Database Quality is an excellent reference for both researchers and professionals involved in any aspect of information and database research.

Metrics For Software Conceptual Models Marcela Genero, Mario Piattini, Coral Calero, 2005-01-04 The idea that measuring quality is the key to developing high quality software systems is gaining relevance. Moreover it is widely recognised that the key to obtaining better software systems is to measure the quality characteristics of early artefacts produced at the conceptual modelling phase. Therefore improving the quality of conceptual models is a major step towards the improvement of software system development. Since the 1970s software engineers had been proposing high quantities of metrics for software products, processes and resources but had not been paying any special attention to conceptual modelling. By the mid 1990s however the need for metrics for conceptual modelling had emerged. This book provides an overview of the most relevant existing proposals of metrics for conceptual models covering conceptual models for both products and processes.

Conceptual Modeling - ER 2002 Stefano Spaccapietra, Salvatore March, Yahiko Kambayashi, 2002

Conceptual Modeling Paolo Atzeni, David Cheung, Sudha Ram, 2012-10-14 This book constitutes the refereed proceedings of the 31st International Conference on Conceptual Modeling ER 2012 held in Florence Italy in October 2012. The 24 regular papers presented together with 13 short papers, 6 poster papers and 3 keynotes were carefully reviewed and selected from 141 submissions. The papers are organized in topical sections on understandability and cognitive approaches, conceptual modeling for datawarehousing and business intelligence, extraction, discovery and clustering, search and documents, data and process modeling, ontology based approaches, variability and evolution, adaptation, preferences and query refinement, queries matching and topic search, and conceptual modeling in action.

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 **Conceptual Modeling ER'99** Jacky Akoka,1999-10-27 This book constitutes the refereed proceedings of the 18th International Conference on Conceptual Modeling ER 99 held in Paris France in November 1999 The 33 revised full papers presented together with three invited contributions were carefully reviewed and selected from a total of 143 submissions The book is divided into topical sections on supporting schema evolution temporal database design schema transformation views and conceptual modeling reuse in conceptual modeling business process modeling and workflows integrating application models data warehouse design modeling concepts schema integration and advanced conceptual modeling **Conceptual Modeling - ER 2000** Alberto H.F. Laender,Stephen W. Liddle,Veda Storey,2003-07-31 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

Proceedings of the International Conference on Expert Systems for Development ,1994 **Frameworks for Developing Efficient Information Systems: Models, Theory, and Practice** Krogstie, John,2013-06-30 As advances in technology continue to generate the collective knowledge of an organization and its operations strategic models for information systems are developed in order to arrange business processes and business data Frameworks for Developing Efficient Information Systems Models Theory and Practice presents research and practices on the advancements in systems analysis and design These theoretical frameworks and practical solutions are useful for researchers practitioners and academicians as this book aims to bridge the communication gap between business managers and system designers

Conceptual Modelling in Information Systems Engineering John Krogstie,Andreas Lothe Opdahl,Sjaak Brinkkemper,2007-06-13 Conceptual modeling has always been one of the cornerstones for information systems engineering as it describes the general knowledge of the system in the so called conceptual schema Krogstie Opdahl and Brinkkemper compiled 20 contributions from renowned researchers covering all aspects of conceptual modeling on the occasion of Arne S Ivberg s 67th birthday Many friends of this information systems modeling pioneer happily contributed their latest research results from fields like data modeling goal oriented modeling agent oriented modeling and process oriented modeling Overall the contributions reflect the most important developments and application areas of conceptual modeling in recent years and they also pinpoint trends in conceptual modeling for the next decade This wide selection corresponds to the broad spectrum of Arne s activities and long term responsibilities with the VLDB Endowment IFIP and ERCIM Arne was presented with this

book at CAiSE 2007 when the event which he cofounded in 1989 returned to his hometown of Trondheim **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 [Proceedings of the ...](#)
[ACM International Conference on Digital Libraries](#) ,1997 **Conceptual Modeling** Heinrich C. Mayr,Giancarlo Guizzardi,Hui Ma,Oscar Pastor,2017-10-28 This book constitutes the refereed proceedings of the 35th International Conference on Conceptual Modeling ER 2017 held in Valencia Spain in November 2017 The 28 full and 10 short papers presented together with 1 full 6 keynotes were carefully reviewed and selected from 153 submissions This events covers a wide range of following topics Conceptual Modeling Methodology Conceptual Modeling and Requirements Foundations Conceptual Modeling in Specific Context Conceptual Modeling and Business Processes Model Efficiency and Ontologies

Conceptual Modeling - ER 2001 Hideko S. Kunii,Sushil Jajodia,Arne Soelvberg,2003-06-30 This book constitutes the refereed proceedings of the 20th International Conference on Conceptual Modeling ER 2001 held in Tokohama Japan in November 2001 The 45 revised full papers presented together with three keynote presentations were carefully reviewed and selected from a total of 197 submissions The papers are organized in topical sections on spatial databases spatio temporal databases XML information modeling database design data integration data warehouse UML conceptual models systems design method reengineering and video databases workflows web information systems applications and software engineering

Conceptual Modeling - ER '97 David W. Embley,1997-10-22 This book constitutes the refereed proceedings of the 16th International Conference on Conceptual Modeling ER 97 held in Los Angeles California USA in November 1997 The 32 revised full papers presented in the book were carefully selected from a total of 93 submissions Also included are two full invited papers The volume is divided in topical sections on automated design temporal modeling languages activity modeling applied modeling object oriented modeling theoretical issues in modeling experience and applications distributed systems integration and tools **Conceptual Modeling** Isabelle Comyn-Wattiau,Katsumi Tanaka,Il-Yeol Song,Shuichiro Yamamoto,Motoshi Saeki,2016-11-07 This book constitutes the refereed proceedings of the 345h International Conference on Conceptual Modeling ER 2016 held in Gifu Japan in November 2016 The 23 full and 18 short papers presented together with 3 keynotes were carefully reviewed and selected from 113 submissions The papers are organized in topical sections on Analytics and Conceptual Modeling Conceptual Modeling and Ontologies Requirements Engineering Advanced Conceptual

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