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Conceptual Modeling for New Information Systems Technologies

ER 2001 Workshops – HUMACS, DASWIS, ECOMO, and DAMA
Yokohama, Japan, November 2001
Revised Papers



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Conceptual Modeling For New Information Systems Technologies

Siau, Keng



Conceptual Modeling For New Information Systems Technologies:

Conceptual Modeling for New Information Systems Technologies Hiroshi Arisawa, Yahiko Kambayashi, 2003-08-06 The objective of the workshops associated with ER 2001 the 20th International Conference on Conceptual Modeling was to give participants the opportunity to present and discuss emerging hot topics thus adding new perspectives to conceptual modeling This the 20th ER conference the first of the 21st century was also the first one in Japan The conference was held on November 27-30 2001 at Yokohama National University with 192 participants from 31 countries ER 2001 encompasses the entire spectrum of conceptual modeling from theoretical aspects to implementations including fundamentals applications and software engineering In particular ER 2001 emphasized e business and reengineering To meet this objective we selected the following four topics and planned four international workshops International Workshop on Conceptual Modeling of Human Organizational Social Aspects of Manufacturing Activities HUMACS 2001 Manufacturing enterprises have to confront a host of demands The competitive climate enhanced by communication and knowledge sharing will require increasingly rapid responses to market forces Customer demands for higher quality better services and lower cost will force manufacturers to reach new levels of exhibility and adaptability Sophisticated customers will demand products customized to meet their needs Industries have so far sought to cope with these challenges primarily through advances in traditional capital by installing more powerful hardware and software technology Attention to the role of humans combined with organizational and social schemes in manufacturing has only been marginal The workshop HUMACS 2001 aimed to challenge the relevance of this last point

Conceptual Modeling for New Information Systems Technologies Hiroshi Arisawa, 2002-09-18 This book constitutes the thoroughly refereed joint post proceedings of four international workshops held in conjunction with the 20th International Conference on Conceptual Modeling ER 2001 held in Yokohama Japan in November 2001 The 37 revised full papers presented were carefully selected and improved during two rounds of reviewing and revision In accordance with the respective workshops the papers are organized in topical sections on conceptual modeling and human organizational and social aspects data semantics in web information systems conceptual modeling approaches for e business and global data modeling

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 lvyberg 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 Advanced Conceptual Modeling Techniques Antoni Olivé, Masatoshi Yoshikawa, 2003-10-13 This book constitutes the thoroughly refereed joint post proceedings of four international workshops held in conjunction with the 21st International Conference on Conceptual Modeling ER 2002 in Tampere Finland in October 2002 The 38 revised full papers presented were carefully selected and improved during two rounds of reviewing and revision The papers are organized in topical sections on management of time and changes in information systems architectures models and tools for systems evolution conceptual modeling approaches to mobile information systems development quality of conceptual models requirements and entity relationship models class models and architectures Web and interactive models processes models and Web services e business methods and technologies and success factors for conceptual modeling in e business , Conceptual Modeling Peter P. Chen, Jacky Akoka, Hannu Kangassalu, Bernhard Thalheim, 2003-05-21 This volume contains a collection of selected papers presented at the Symposium on Conceptual Modeling which was held in Los Angeles California on December 2th 1997 immediately before the 16 International Conference on Conceptual Modeling ER 97 which was held at UCLA A total of eighteen papers were selected for inclusion in this volume These papers are written by experts in the conceptual modeling area and represent the most current thinking of these experts This volume also contains the summaries of three workshops that were held on 6-7 December 1997 immediately after the ER 97 conference at UCLA The topics of these three workshops are Behavioral Modeling Conceptual Modeling in Multimedia Information Seeking What Is the Role of Cognition in Conceptual Modeling Since these topics are not only very important but also very timely we think it is appropriate to include the summary of these three workshops in this volume Those readers interested in further investigating topics related to the three workshops can either look up the individual paper published on the Web or contact the authors directly The summary paper by Chen at the beginning of this volume also includes the summary of several interesting speeches at the Symposium

Conceptual Modeling - ER '98 Tok Wang Ling, Sudha Ram, 2004-06-04 This volume constitutes the refereed proceedings of the 17th International Conference on Conceptual Modeling ER 98 held in Singapore in November 1998 The 32 revised full papers presented were carefully reviewed and selected from a total of 95 submissions The book is divided into chapters on conceptual modeling and design user interface modeling information retrieval on the Web semantics and constraints conceptual modeling tools quality and reliability metrics industrial experience in conceptual modeling object oriented database management systems data warehousing industrial case studies object oriented approaches 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.

Encyclopedia of Microcomputers Allen Kent, James G. Williams, 1999-10-29 This encyclopaedia covers Characterization Hierarchy Containing Augmented Characterizations to Video Compression *Resources in Education*, 1996

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.

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 Advances in Conceptual Modeling. Recent Developments and New Directions Olga De Troyer, Claudia Bauzer Medeiros, Roland Billen, Pierre Hallot, Alkis Simitsis, Hans Van Mingroot, 2011-10-12 This book constitutes the refereed proceedings of workshops held at the 30th International Conference on Conceptual Modeling ER 2011 in Brussels Belgium in October November 2011 The 31 revised full papers presented together with 9 posters and demonstrations out of 88 submissions for the workshops and the 6 papers out of 11 submissions for the industrial track were carefully reviewed and selected The papers are organized in sections on the workshops Web Information Systems Modeling WISM Modeling and Reasoning for Business Intelligence MORE BI Software Variability Management Variability ER Ontologies and Conceptual Modeling Onto Com Semantic and Conceptual Issues in GIS SeCoGIS and Foundations and Practices of UML FP UML *Software Engineering and Algorithms in Intelligent Systems* Radek Silhavy, 2018-05-16 This book presents new software engineering approaches and methods discussing real world problems and exploratory research that describes novel approaches modern design techniques hybrid algorithms and empirical methods This book constitutes part of the refereed proceedings of the Software Engineering and Algorithms in Intelligent Systems Section of the 7th Computer Science On line Conference 2018 CSOC 2018 held in April 2018 **Software Engineering Methods in Systems and Network Systems** Radek Silhavy, Petr Silhavy, 2024-02-27 This book presents cutting edge research and methodologies in software engineering specifically focusing on systems and network systems It showcases novel development approaches and network system optimizations highlighting the field s dynamic evolution The book is designed for experts scholars and professionals offering insights and tools crucial for advancing the software engineering landscape Its diverse content makes it an invaluable resource for seasoned professionals and those new to the field inspiring and enriching readers understanding of software engineering s future directions **Advances in Conceptual Modeling** Georg Grossmann, Sudha Ram, 2020-12-21 This book constitutes the refereed proceedings of five workshops symposia held at the 39th International Conference on Conceptual Modeling ER 2020 which were supposed to be held in Vienna Austria in November 2020 but were held virtually due to the COVID 19 pandemic instead The 20 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 First Workshop on Conceptual Modeling Meets Artificial Intelligence and Data Driven Decision Making CMAI First International Workshop on Conceptual Modeling for Life Sciences CMLS Second Workshop on Conceptual Modeling Ontologies and Meta data Management for Findable Accessible Interoperable and Reusable FAIR Data CMOMM4FAIR First Workshop on Conceptual Modeling for NoSQL Data Stores CoMoNoS and Third International Workshop on Empirical Methods in Conceptual Modeling EmpER **Information Systems And Technologies For Network Society:**

Proceedings Of The Ipsj International Symposium Yahiko Kambayashi, Yoshifumi Masunaga, Makoto Takizawa, Yuichiro Anzai, 1997-09-09 This volume contains technical papers and panel position papers selected from the proceedings of the International Symposium on Information Systems and Technologies for Network Society held together with the IPSJ information processing society of Japan National Convention in September 1997 Papers were submitted from all over the world especially from Japan Korea and China Since these countries are believed to form one of the major computer manufacturing centers in the world a panel on Computer Science Education for the 21st Century was set up A special session on the Japanese project on Software Engineering invited representative researchers from the project which is supported by the Ministry of Education Japan

Conceptual Modeling - ER 2009 Alberto H. F. Laender, Silvana Castano, Umeshwar Dayal, Fabio Casati, José Palazzo M. de Oliverira, 2009-11-09 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 Recently ontologies added an important tool to conceptualize and formalize system specification The International Conference on Conceptual Modeling ER provides the premiere forum for presenting and discussing current research and applications in which the major emphasis is centered 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 2009 features several activities running in parallel

Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches Siau, Keng, 2011-12-31 Within a given enterprise database management involves the monitoring administration and maintenance of the databases which constantly change with new technologies and new forms of data Cross Disciplinary Models and Applications of Database Management Advancing Approaches is an updated look at the latest tools and technology within the burgeoning field of database management Perfect for the network administrator technician information technology specialist or consultant or for academics and students this volume presents the latest the field has to offer by way of cases and new research As database languages models and systems change it s vital for practitioners within the field to stay abreast of the latest research and methods being used around the world and this book offers the most current advances available

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

The Enigmatic Realm of **Conceptual Modeling For New Information Systems Technologies**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Conceptual Modeling For New Information Systems Technologies** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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