

Advances In Conceptual Modeling Er 2012 Workshops Cms Ecdm Nocoda Modic More Bi Rigim Secogis Wism Florence Italy October 15 18 2012 Proceedings Lecture Notes In Computer Science

Conceptual Modeling - ER 2009 Conceptual Modeling - ER '96 Conceptual Modeling - ER 2000 Conceptual Modeling - ER '97 Conceptual Modeling - ER 2005 Conceptual Modeling - ER 2001 Conceptual Modeling ER'99 Conceptual Modeling - ER 2004 Conceptual Modeling - ER 2006 Conceptual Modeling Conceptual Modeling Conceptual Modeling Advances in Conceptual Modeling - Challenging Perspectives Conceptual Modeling Conceptual Modeling - ER 2007 Conceptual Modeling Conceptual Modeling - ER 2011 Advances in Conceptual Modeling - Applications and Challenges Perspectives in Conceptual Modeling Advances in Conceptual Modeling - Challenges and Opportunities Advances in Conceptual Modeling Advances in Conceptual Modeling Conceptual Modeling Advances in Conceptual Modeling Conceptual Modeling - ER '96 Advances in Conceptual Modeling Conceptual Modeling - ER '98 Conceptual Modeling Conceptual Modeling - ER '98 Advances in Conceptual Modeling Conceptual Modeling - ER 2000 Conceptual Modeling - ER 2008 Conceptual Modeling - ER 2002 Conceptual Modeling - ER 2010 Conceptual Modeling ER'99 Conceptual Modeling - ER 2005 Conceptual Data Modeling and Database Design: A Fully Algorithmic Approach, Volume 1 Conceptual Modeling - ER 2002 Conceptual Modeling -- ER 2003 Conceptual Modeling for E-Business and the Web

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Conceptual Modeling - ER '96 Oct 04 2020 This volume constitutes the refereed proceedings of the 15th International Conference on Conceptual Modeling, ER '96, held in Cottbus, Germany, in October 1996. The volume presents three invited contributions together with 29 revised full papers selected from 110 submissions. The papers cover all current aspects of the entity-relationship approach and conceptual modeling; they are organized in sections on advanced schema design, processes, query languages, representation, integration, principles of database design, transformation, enhanced modelling, capturing design information, and evolution.

Conceptual Modeling - ER 2006 Feb 20 2022 This book constitutes the refereed proceedings of the 25th International Conference on Conceptual Modeling, ER 2006, held in Tucson, AZ, USA in November 2006. The 37 revised full papers presented together with two keynote talks, two panel session papers, six industrial papers, and five demo/posters papers were carefully reviewed and selected from 158 submissions.

Advances in Conceptual Modeling - Challenges and Opportunities Mar 09 2021 We would like to welcome you to the proceedings of the workshops held in conjunction with the 27th International Conference on Conceptual Modeling (ER 2008). While the ER main conference covers a wide spectrum of conceptual modeling research, increasingly complex real-world problems demand new perspectives and active research in new applications. The ER workshops attempt to provide researchers, students, and industry professionals with a forum to present and discuss emerging hot topics related to conceptual modeling. We received 13 excellent proposals for workshops to be held with ER 2008. We accepted the following seven based on peer reviews: 1. The Second International Workshop on Conceptual Modeling for Life Sciences Applications (CMLSA 2008), organized by Yi-Ping Phoebe Chen and Sven Hartmann. 2. The 5th International Workshop on Evolution and Change in Data Management (ECDM 2008), organized by Fabio Grandi. 3. The 4th International Workshop on Foundations and Practices of UML (FP-UML 2008), organized by Juan Trujillo and Andreas L. Opdahl. 4. The First International Workshop on Modeling Mobile Applications and Services (M2AS 2008), organized by Fernando Ferri, Patrizia Grifoni, and Maria Chiara Caschera. 5. The Second International Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM 2008), organized by Colette Rolland, C-son Woo, and Camille Salinesi. 6. The Second International Workshop on Semantic and Conceptual Issues in Geographic Information Systems (SeCoGIS 2008), organized by Esteban Zimanyi and Christophe Claramunt. 7. The 5th International Workshop on Web Information Systems Modeling (WISM 2008), organized by Flavius Frasinca, Geert-Jan Houben, and Philippe Thiran.

Conceptual Modeling - ER 2000 Mar 29 2020 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 2000 Aug 26 2022 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 2005 Oct 24 2019 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 non-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.

Conceptual Modeling - ER 2002 Aug 22 2019 For more than 20 years, the series of Conceptual Modeling - ER conferences has provided a forum for research communities and practitioners to present and change research results and practical experiences in the fields of database design and conceptual modeling. Throughout the years, the scope of these conferences has extended from database design and specific topics of that area to more universal or needed conceptual modeling, organizing originally weak or ill-structured information or knowledge in more cultured ways by applying various kinds of principles, abstract models, and theories, for different purposes. At the same time, many technically oriented approaches have been developed which aim to facilitate the implementation of rather advanced conceptual models. Conceptual modeling is based on the process of conceptualization, and it is the core of system structuring as well as justification for information systems development. It supports and facilitates the understanding, explanation, prediction, and reasoning on information and knowledge, and their manipulation in the systems, in addition to understanding and designing the functions of the systems. The conceptualization process aims at constructing concepts relevant for the knowledge and information system in question. Concepts in the

human mind and concept descriptions in computerized information systems are quite different things by nature, but both should be taken into account in conceptual modeling. Usually concept descriptions are properly observed, but concepts in the human mind and their properties are often neglected quite carelessly.

Conceptual Modeling - ER 2002 Jan 27 2020 This book constitutes the refereed proceedings of the 21st International Conference on Conceptual Modeling, ER 2002, held in Tampere, Finland in October 2002. The 30 revised full papers presented with abstracts of various invited contributions were carefully reviewed and selected from close to 130 submissions. The papers are organized in topical sections on semantics and meta-models, principles of ontology, web environments, theory and methods, methods and tools, applications for practice, applying ontology in conceptual modeling, applying ontology in conceptual modeling, systems and data integration, quality assessment, and XML and object systems.

Advances in Conceptual Modeling Jan 07 2021 The objective of the workshops associated with the ER'99 18th International Conference on Conceptual Modeling is to give participants access to high level presentations on specialized, hot, or emerging scientific topics. Three themes have been selected in this respect: - Evolution and Change in Data Management (ECDM'99) dealing with handling the evolution of data and data structure, - Reverse Engineering in Information Systems (REIS'99) aimed at exploring the issues raised by legacy systems, - The World Wide Web and Conceptual Modeling (WWWCM'99) which analyzes the mutual contribution of WWW resources and techniques with conceptual modeling. ER'99 has been organized so that there is no overlap between conference sessions and the workshops. Therefore participants can follow both the conference and the workshop presentations they are interested in. I would like to thank the ER'99 program co-chairs, Jacky Akoka and Mokrane Bouzeghoub for having given me the opportunity to organize these workshops. I would also like to thank Stephen Liddle for his valuable help in managing the evaluation procedure for submitted papers and helping to prepare the workshop proceedings for publication. August 1999 Jacques Kouloumdjian Preface for ECMD'99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management, ECMD'99, which was held in conjunction with the 18th International Conference on Conceptual Modeling (ER'99) in Paris, France, November 15-18, 1999.

Perspectives in Conceptual Modeling Apr 10 2021 This book constitutes the refereed joint proceedings of five international workshops held in conjunction with the 24th International Conference on Conceptual Modeling, ER 2005, in Klagenfurt, Austria, in October 2005. The 40 revised full papers presented together with the abstracts of seven tutorials were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on best practices of UML, experience reports and new applications, model evaluation and requirements modeling, metamodeling and model driven development, positions in engineering agent oriented systems, agent oriented methodologies and conceptual modeling, agent communication and coordination, geographic information systems, spatial and spatio-temporal data representation, spatial relations, spatial queries, analysis and data mining, data modeling and visualisation, conceptual modeling approaches for e-business, information system models quality, and quality driven processes.

Conceptual Modeling - ER 2009 Oct 28 2022 This book constitutes the refereed proceedings of the 28th International Conference on Conceptual Modeling, ER 2009, held in Gramado, Brazil, in November 2009. The 31 revised full papers presented together with 18 demo papers were carefully reviewed and selected from 162 submissions. The papers are organized in topical sections on conceptual modeling, requirements engineering, query approaches, space and time modeling, schema matching and integration, application contexts, process and service modeling, and industrial session.

Advances in Conceptual Modeling Nov 05 2020 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 (COMMAFAIR); First Workshop on Conceptual Modeling for NoSQL Data Stores (CoMoNoS); and Third International Workshop on Empirical Methods in Conceptual Modeling (EmpER).

Conceptual Modeling ER'99 Nov 24 2019 This book provides a comprehensive state-of-the-art, in conceptual modeling. It grew out of research papers presented at the 18th International Conference on Conceptual Modeling (ER '99) and arranged by the editors. The plan of the conference is to cover the whole spectrum of conceptual modeling as it relates to database and information systems design and to offer a complete coverage of data and process modeling, database technology, and database applications. The aim of the conference and of these proceedings is to present new insights related to each of these topics. This book contains both selected and invited papers. The 33 selected papers are organized in 11 sessions encompassing the major themes of the conference, especially: - schema transformation, evolution, and integration - temporal database design - views and reuse in conceptual modeling - advanced conceptual modeling - business process modeling and workflows - data warehouse design. Besides the selected papers, 3 invited papers present the views of three keynote speakers, internationally known for their contribution to conceptual modeling and database research and for their active role in knowledge dissemination. Peter Chen presents the results of his ongoing research on ER model, XML, and the Web. Georges Gardarin presents the first results of an ESPRIT project federating various data sources with XML and XML-QL. Finally, Matthias Jarke develops a way to capture and evaluate the experiences gained about process designs in so-called process data warehouses.

Conceptual Modeling - ER 2005 Jun 24 2022 Conceptual modeling is fundamental to any domain where one must cope with complex real-world situations and systems because it fosters communication - tween 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" e-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 non-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.

Conceptual Modeling Dec 18 2021 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.

Advances in Conceptual Modeling Sep 03 2020 This book constitutes the refereed proceedings of workshops, held at the 33rd International Conference on Conceptual Modeling, ER 2014, in Atlanta, GA, USA in October 2014. The 24 revised full and 6 short papers were carefully reviewed and selected out of 59 submissions and are presented together with 4 demonstrations. The papers are organized in sections related to the individual workshops: the First International Workshop on Enterprise Modeling, ENMO 2014; the Second International Workshop on Modeling and Management of Big Data, MoBiD 2014; the First International Workshop on Conceptual Modeling in Requirements and Business Analysis, MRBA 2014; the First International Workshop on Quality of Models and Models of Quality, QMMQ 2014; the 8th International Workshop on Semantic and Conceptual Issues in GIS, SeCoGIS 2014; and the 11th International Workshop on Web Information Systems Modeling, WISM 2014. The contributions cover a variety of topics in conceptual modeling, including requirements and enterprise modeling, modeling of big data, spatial conceptual modeling, exploring the quality of models, and issues specific to the design of web information systems.

Conceptual Modeling Sep 15 2021 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 - ER 2001 May 23 2022 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 2008 Feb 26 2020 Conceptual modeling has long been recognized as the primary means to enable so-ware 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 system 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 -veloping 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 Univ- sity for accepting our invitation to present keynotes.

Conceptual Modeling – ER 2010 Dec 26 2019 th This publication comprises the proceedings of the 29 International Conference on Conceptual Modeling (ER 2010), which was held this year in Vancouver, British Columbia, Canada. Conceptual modeling can be considered as lying at the confluence of the three main aspects of information technology applications — the world of the stakeholders and users, the world of the developers, and the technologies available to them. C- eptual models provide abstractions of various aspects related to the development of systems, such as the application domain, user needs, database design, and software specifications. These models are used to analyze and define user needs and system requirements, to support communications between stakeholders and developers, to provide the basis for systems design, and to document the requirements for and the design rationale of developed systems. Because of their role at the junction of usage, development, and technology, c- eptual models can be very important to the successful development and deployment of IT applications. Therefore, the research and development of methods, techniques, tools and languages that can be used in the process of creating, maintaining, and using conceptual models is of great practical and theoretical importance. Such work is c- ducted in academia, research institutions, and industry. Conceptual modeling is now applied in virtually all areas of IT applications, and spans varied domains such as organizational information systems, systems that include specialized data for spatial, temporal, and multimedia applications, and biomedical applications.

Conceptual Modeling - ER '98 May 31 2020 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.

Advances in Conceptual Modeling Apr 29 2020 This book constitutes the refereed proceedings of seven workshops and a symposium, held at the 35th International Conference on Conceptual Modeling, ER 2016, in Gifu, Japan. The 19 revised full and 3 keynote papers were carefully reviewed and selected out of 52 submissions to the following events: Conceptual Modeling for Ambient Assistance and Healthy Ageing, AHA 2016; Modeling and Management of Big Data, MoBiD 2016; Modeling and Reasoning for Business Intelligence, MORE-BI 2016; Conceptual Modeling in Requirements and Business Analysis, MREBA 2016; Quality of Models and Models of Quality, QMMQ 2016; and the Symposium on Conceptual Modeling Education, SCME 2016; and Models and Modeling on Security and Privacy, WM2SP 2016.

Conceptual Modeling Jan 19 2022 This volume contains a collection of selected papers presented at the Symposium on Conceptual Modeling, which was held in Los Angeles, California, on December 2, th 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 Data Modeling and Database Design: A Fully Algorithmic Approach, Volume 1 Sep 22 2019 This new book aims to provide both beginners and experts with a completely algorithmic approach to data analysis and conceptual modeling, database design, implementation, and tuning, starting from vague and incomplete customer requests and ending with IBM DB/2, Oracle, MySQL, MS SQL Server, or Access based software applications. A rich panoply of solutions to actual useful data sub-universes (e.g. business, university, public and home library, geography, history, etc.) is provided, constituting a powerful library of examples. Four data models are presented and used: the graphical Entity-Relationship, the mathematical EMDM, the physical Relational, and the logical deterministic deductive Datalog ones. For each one of them, best practice rules, algorithms, and the theory beneath are clearly separated. Four case studies, from a simple public library example, to a complex geographical study are fully presented, on all needed levels. Several dozens of real-life exercises are proposed, out of which at least one per chapter is completely solved. Both major historical and up-to-date references are provided for each of the four data models considered. The book provides a library of useful solutions to real-life problems and provides valuable knowledge on data analysis and modeling, database design, implementation, and fine tuning.

Conceptual Modeling ER'99 Apr 22 2022 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 Dec 06 2020 This book constitutes the refereed proceedings of the 34th 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 Modeling; Semantic Annotations; Modeling and Executing Business Processes; Business Process Management and Modeling; Applications and Experiments of Conceptual Modeling; Schema Mapping; Conceptual Modeling Guidance; and Goal Modeling.

Conceptual Modeling - ER '96 Sep 27 2022 This volume constitutes the refereed proceedings of the 15th International Conference on Conceptual Modeling, ER '96, held in Cottbus, Germany, in October 1996. The volume presents three invited contributions together with 29 revised full papers selected from 110 submissions. The papers cover all current aspects of the entity-relationship approach and conceptual modeling; they are organized in sections on advanced schema design, processes, query languages, representation, integration, principles of database design, transformation, enhanced modelling, capturing design information, and evolution.

Conceptual Modeling – ER 2011 Jun 12 2021 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 2007 Aug 14 2021 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.

Conceptual Modeling Jul 13 2021 This book constitutes the refereed proceedings of the 39th International Conference on Conceptual Modeling, ER 2020, which was supposed to be held in Vienna, Austria, in November 2020, but the conference was held virtually due to the COVID-19 pandemic. The 28 full and 16 short papers were carefully reviewed and selected from 143 submissions. This events covers a wide range of topics, and the papers are organized in the following sessions: foundations of conceptual modeling; process mining and conceptual modeling; conceptual modeling of business rules and processes; modeling chatbots, narratives and natural language; ontology and conceptual

modeling; applications of conceptual modeling; schema design, evolution, NoSQL; empirical studies of conceptual modeling; networks, graphs and conceptual modeling; and conceptual modeling of complex and data-rich systems.

Conceptual Modeling for E-Business and the Web Jun 19 2019 The objective of the workshops associated with the ER2000 19th 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 attracts communities which have begun to or which have already recognized the importance of conceptual modeling for solving their problems. To meet this objective, we selected the following two topics: { Conceptual Modeling Approaches for E-Business (eCOMO2000) aimed at studying the application of conceptual modeling techniques specially to e-business. { The World Wide Web and Conceptual Modeling (WCM2000) which analyzes how conceptual modeling can help address the challenges of Web development, management, and use. eCOMO2000 is the first international workshop on Conceptual Modeling - approaches for E-Business. It was intended to work out and to discuss the actual state of research on conceptual modeling aspects and methods within the realm of the network economy, which is driven by both traditionally organized enterprises and dynamic networks. Following the philosophy of the ER workshops, the selection of eCOMO contributions was done very carefully and restrictively (six accepted papers out of thirteen submissions) in order to guarantee an excellent workshop program. We are deeply indebted to the authors and to the members of the program committee, whose work resulted in this outstanding program.

Conceptual Modeling Nov 17 2021 This book constitutes the refereed proceedings of the 40th International Conference on Conceptual Modeling, ER 2021, which will be held as virtual event, in October 2021. The 14 full and 18 short papers were carefully reviewed and selected from 85 submissions. The conference presents topics on conceptual modeling, its foundations and applications. Celebrating its 40th anniversary this year, the overall theme of ER 2021 is: Conceptual Modeling in an Age of Uncertainty.

Conceptual Modeling - ER '97 Jul 25 2022 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.

Advances in Conceptual Modeling – Applications and Challenges May 11 2021 This book constitutes the refereed proceedings of workshops, held at the 29th International Conference on Conceptual Modeling, ER 2010, in Vancouver, Canada, in November 2010. The 31 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in sections on the workshops Semantic and Conceptual Issues in GIS (SeCoGIS); Conceptual Modeling of Life Sciences Applications (CMLSA); Conceptual Modelling of Services (CMS); Active Conceptual Modeling of Learning (ACM-L); Web Information Systems Modeling (WISM); Domain Engineering (DE@ER); and Foundations and Practices of UML (FP-UML).

Conceptual Modeling Jul 01 2020 This book constitutes the refereed proceedings of the 38th International Conference on Conceptual Modeling, ER 2019, held in Salvador, Brazil, in November 2019. The 22 full and 22 short papers presented together with 4 keynotes were carefully reviewed and selected from 142 submissions. This event covers a wide range of topics, covered in the following sessions: conceptual modeling, big data technology I, process modeling and analysis, query approaches, big data technology II, domain specific models I, domain specific models II, decision making, complex systems modeling, model unification, big data technology III, and requirements modeling.

Advances in Conceptual Modeling Feb 08 2021 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 (MoBI2019), and 7th International Workshop on Ontologies and Conceptual Modelling (OntoCom).

Conceptual Modeling -- ER 2003 Jul 21 2019 The 22nd International Conference on Conceptual Modeling (ER 2003) returned to Chicago after an absence of 18 years. Chicago, a city well known for its trendsetting and daring architecture, has met the new century with a renewed commitment to open public spaces and human interaction. Thus it provided a fitting venue for ER 2003, the scope of which was expanded to encompass all aspects of conceptual modeling in order to deal with constantly changing information technology and business practices and to accommodate a new openness in connecting systems to each other and to human users. The ER 2003 Program Co-chairs, Il-Yeol Song, Stephen Liddle, and Tok Wang Ling, along with an outstanding Program Committee assembled one of the finest technical programs of this conference series. In keeping with the tradition of previous ER conferences, the program for ER 2003 also included four preconference workshops, two preconference tutorials, two conference tutorials, two panels, and a demos and poster session. The Program Co-chairs, as well as Manfred Jeusfeld and Oscar Pastor (Workshop Co-chairs), Ee-Peng Lim and Tobey Teorey (Tutorial Co-chairs), Avigdor Gal and Elisa Bertino (Panel Co-chairs), and Heinrich Mayr (Demos and Poster Chair), deserve our appreciation for an excellent job. It was a pleasure working with all of them.

Conceptual Modeling - ER '98 Aug 02 2020 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 2004 Mar 21 2022 This book constitutes the refereed proceedings of the 23rd International Conference on Conceptual Modeling, ER 2004, held in Shanghai, China, in November 2004. The 57 revised full papers presented together with three invited contributions and 8 demonstration and poster papers were carefully reviewed and selected from 295 submissions. The papers are organized in topical sections on conceptual modeling, datawarehouses, schema integration, data classification and mining, web-based information systems, query processing, web services, schema evolution, conceptual modeling applications, UML, XML modeling, and industrial presentations.

Advances in Conceptual Modeling - Challenging Perspectives Oct 16 2021 This book contains the papers accepted for presentation and publication in the workshop proceedings of the 28th edition of the International Conference on Conceptual Modeling (ER Conference), held during November 9–12, 2009, in Gramado, Brazil. The ER workshops complement the main ER conference and are intended to serve as an intensive collaborative forum for exchanging late-breaking ideas and theories in an evolutionary stage and related to conceptual modeling. For the 2009 edition the workshop committee received 14 excellent proposals from which the following were selected: • ACM-L: Active Conceptual Modeling of Learning • CoMol: Conceptual Modeling in the Large • ETheCoM: Evolving Theories of Conceptual Modeling • FP-UML: Workshop on Foundations and Practices of UML • MOST-ONISW: Joint International Workshop on Metamodels, Ontologies, Semantic Technologies, and Information Systems for the Semantic Web • QoIS: Quality of Information Systems • RIGiM: Requirements, Intentions and Goals in Conceptual Modeling • SeCoGIS: Semantic and Conceptual Issues in Geographic Information Systems These workshops attracted 100 submissions from which the workshop program committee selected 33 papers, maintaining a highly competitive acceptance rate of 30%. The workshop co-chairs are highly indebted to the workshop organizers and program committees for their work. July 2009 Carlos A. Heuser Günther Pernul