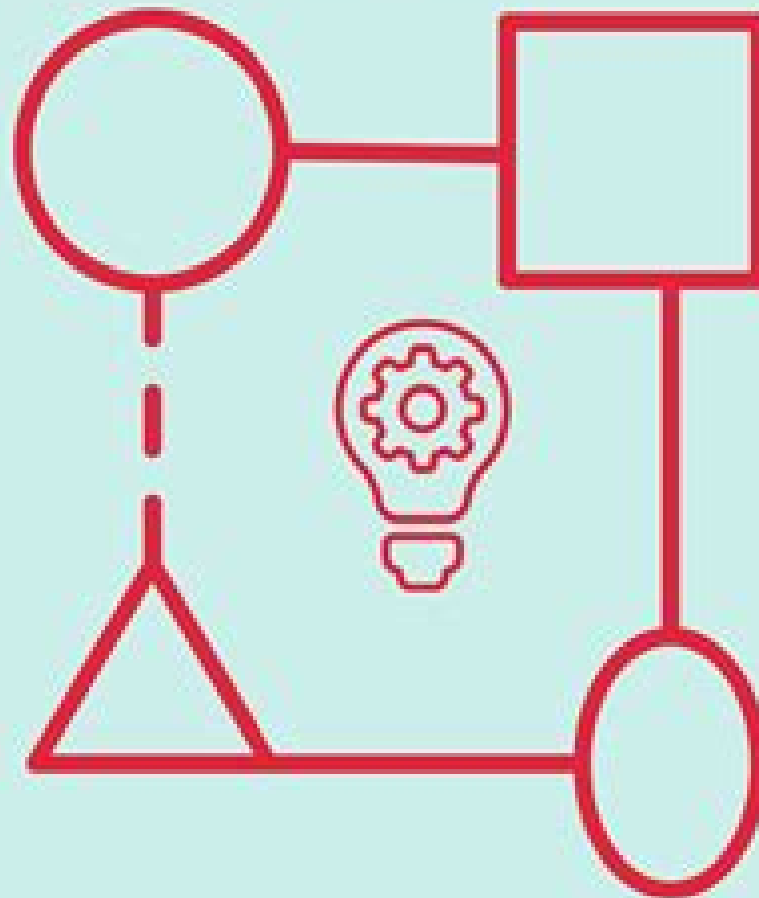


# Conceptual Modeling In A Nutshell

Conceptual modeling is the process of developing an abstract model or graphical representation using real-world concepts or ideas. During conceptual modeling, various assumptions are made regarding how the system functions. Conceptual models also illustrate the dominant processes in a system and how they are linked. These processes may include factors known to drive change in the system, or they may encompass the consequences of change in the factors themselves.



# Conceptual Modeling

**David W. Embley, Bernhard Thalheim**



## **Conceptual Modeling:**

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

**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 345th 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 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

**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* Eric Yu, Gillian Dobbie, Matthias Jarke, Sandeep Purao, 2014-10-10 This book constitutes the refereed proceedings of the 32nd International Conference on Conceptual Modeling ER 2014 held in Atlanta GA USA The 23 full and 15 short papers presented were carefully reviewed and selected from 80 submissions Topics of interest presented and discussed in the conference span the entire spectrum of conceptual modeling including research and practice in areas such as data on the web unstructured data uncertain and incomplete data big data graphs and networks privacy and safety database design new modeling languages and applications software concepts and strategies patterns and narratives data management for enterprise architecture city and urban applications

Conceptual Modeling - ER 2004 Paolo Atzeni, Wesley Chu, Hongjun Lu, Shuigeng Zhou, Tok Wang Ling, 2005-01-17 On behalf of the Organizing Committee we would like to welcome you to the proceedings of the 23rd International Conference on Conceptual Modeling ER 2004 This conference provided an international forum for technical discussion on conceptual modeling of information systems among researchers developers and users This was the third time that this conference was held in Asia the first time was in Singapore in 1998 and the second time was in Yokohama Japan in 2001 China is the third largest nation with the largest population in the world Shanghai the largest city in China and a great metropolis famous in Asia and throughout the world is therefore a most appropriate location to host this conference This volume contains papers selected for presentation and includes the two keynote talks by Prof Hector Garcia Molina and Prof Gerhard Weikum and an invited talk by Dr Xiao Ji This volume also contains industrial papers and demo poster papers An additional volume contains papers from 6 workshops The conference also featured three tutorials 1 Web Change Management and Delta Mining Opportunities and Solutions by Sanjay Madria 2 A Survey of Data Quality Issues in Cooperative Information Systems by Carlo Batini and 3 Visual SQL An ER Based Introduction to Database Programming by Bernhard

Thalheim     The Evolution of Conceptual Modeling Roland Kaschek,Lois M.L. Delcambre,2011-01-19 Conceptual modeling represents a recent approach to creating knowledge It has emerged in response to the computer revolution which started in the middle of the 20th century Computers in the meantime have become a major knowledge media Conceptual modeling provides an answer to the difficulties experienced throughout the development of computer applications and aims at creating effective reasonably priced and sharable knowledge about using computers in business Moreover it has become evident that conceptual modeling has the potential to exceed the boundaries of business and computer usage This state of the art survey originates from the International Seminar on the Evolution of Conceptual Modeling held in Dagstuhl Castle Germany in April 2008 The major objective of this seminar was to look into conceptual modeling from a historical perspective with a view towards the future of conceptual modeling and to achieve a better understanding of conceptual modeling issues in several different domains of discourse going beyond individual modeling projects The book contains 14 chapters These were carefully selected during two rounds of reviewing and improvement from 26 presentations at the seminar and are preceded by a detailed preface providing general insights into the field of conceptual modeling that are not necessarily discussed in any of the chapters but nevertheless aid in conceptualizing the inner structure and coherence of the field The chapters are grouped into the following three thematic sections the evolution of conceptual modeling techniques the extension of conceptual modeling to a service oriented peer to peer or Web context and new directions for conceptual modeling

*Conceptual Modeling - ER 2009* Alberto H. F. Laender,Silvana Castano,Umeshwar Dayal,Fabio Casati,José Palazzo M. de Oliverira,2009-10-26 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     **Conceptual Modeling - ER 2011** Manfred

Jeusfeld,Lois Delcambre,Tok Wang Ling,2011-10-26 This book constitutes the refereed proceedings of the 30th International Conference on Conceptual Modeling ER 2011 held in Brussels Belgium in October November 2011 The 25 revised full papers presented together with 14 short papers and three keynotes were carefully reviewed and selected from 157 submissions The papers are organized in topical sections on modeling goals and compliance human and socio technical factors ontologies data model theory model development and maintainability user interfaces and software classification evolution propagation and refinement UML and requirements modeling views queries and search requirements and business intelligence MDA and ontology based modeling process modeling panels     **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.

**Conceptual Modeling - ER 2007** Christine Parent, 2007-10-15. 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.

**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. 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).

**Conceptual Modeling - ER 2010** Jeffrey Parsons, Motoshi Saeki, Peretz Shoval, Carson Woo, Yair Wand, 2010-10-27. This publication comprises the proceedings of the 29th 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. Conceptual 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, conceptual 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 conducted 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 **Advances in**

**Conceptual Modeling** Claudenir M. Fonseca, Active Conceptual Modeling of Learning Peter P. Chen, Leah Y.

Wong, 2008-01-04 This volume is a collection of papers presented during the first International ACM L Workshop which was held in Tucson Arizona during the 25th International Conference on Conceptual Modeling ER 2006 Included in this state of the art survey are 11 revised full papers carefully reviewed and selected from the workshop presentations These are rounded off with four invited lectures and an introductory overview and represent the current thinking in conceptual modeling research Conceptual Modeling for E-Business and the Web Stephen W. Liddle, Heinrich C. Mayr, Bernhard

Thalheim, 2003-06-29 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 for Traditional and*

*Spatio-Temporal Applications* Christine Parent, Stefano Spaccapietra, Esteban Zimányi, 2006-09-02 From environmental management to land planning and geo marketing the number of application domains that may greatly benefit from using data enriched with spatio temporal features is expanding very rapidly Unfortunately development of new spatio temporal applications is hampered by the lack of conceptual design methods suited to cope with the additional complexity of spatio temporal data This complexity is obviously due to the particular semantics of space and time but also to the need for multiple representations of the same reality to address the diversity of requirements from highly heterogeneous user communities Conceptual design methods are also needed to facilitate the exchange and reuse of existing data sets a must in geographical

data management due to the high collection costs of the data Yet current practice in areas like geographical information systems or moving objects databases does not include conceptual design methods very well if at all This book shows that a conceptual design approach for spatio temporal databases is both feasible and easy to apprehend While providing a firm basis through extensive discussion of traditional data modeling concepts the major focus of the book is on modeling spatial and temporal information Parent Spaccapietra and Zim nyi provide a detailed and comprehensive description of an approach that fills the gap between application conceptual requirements and system capabilities covering both data modeling and data manipulation features The ideas presented summarize several years of research on the characteristics and description of space time and perception In addition to the authors own data modeling approach MADS Modeling of Application Data with Spatio temporal features the book also surveys alternative data models and approaches from industry and academia that target support of spatio temporal modeling The reader will acquire intimate knowledge of both the traditional and innovative features that form a consistent data modeling approach Visual notations and examples are employed extensively to illustrate the use of the various constructs Therefore this book is of major importance and interest to advanced professionals researchers and graduate or post graduate students in the areas of spatio temporal databases and geographical information systems For anyone thinking of doing research in this field or who is developing a system based on spatio temporal data this text is essential reading Mike Worboys U Maine Orono ME USA The high level semantic model presented and validated in this book provides essential guidance to researchers and implementers when improving the capabilities of data systems to serve the actual needs of applications and their users in the temporal and spatial domains that are so prevalent today Gio Wiederhold Stanford U CA USA

**Advances in Conceptual Modeling - Applications and Challenges** Juan Trujillo, Gillian Dobbie, Hannu Kangassalo, Sven Hartmann, Markus Kirchberg, Matti Rossi, Iris Reinhartz-Berger, Esteban Zimányi, Flavius Frasincar, 2010-10-25 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

*Advances in Conceptual Modeling - Challenging Perspectives* Carlos A. Heuser, Günther Pernul, 2009-11-14 This book constitutes the refereed joint proceedings of eight international workshops held in conjunction with the 28th International Conference on Conceptual Modeling ER 2009 in Gramado Brazil in November 2009 The 33 revised full papers presented were carefully reviewed and selected from 100 submissions Topics addressed by the workshops are active conceptual modeling of learning ACM L conceptual modeling in the large CoMoL evolving theories of conceptual modeling ETheCoM workshop on foundations and practices of UML FP

UML joint international workshop on metamodels ontologies semantic technologies and information systems for the semantic web MOST ONISW quality of information systems QoIS requirements Intentions and goals in conceptual modeling RIGiM and semantic and conceptual issues in geographic information systems SeCoGIS      **Advances in Conceptual Modeling. Recent Developments and New Directions** Olga De Troyer, Claudia Bauzer Medeiros, Roland Billen, Pierre Hallot, Alkis Simitsis, Hans Van Mingroot, 2011-10-26 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

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