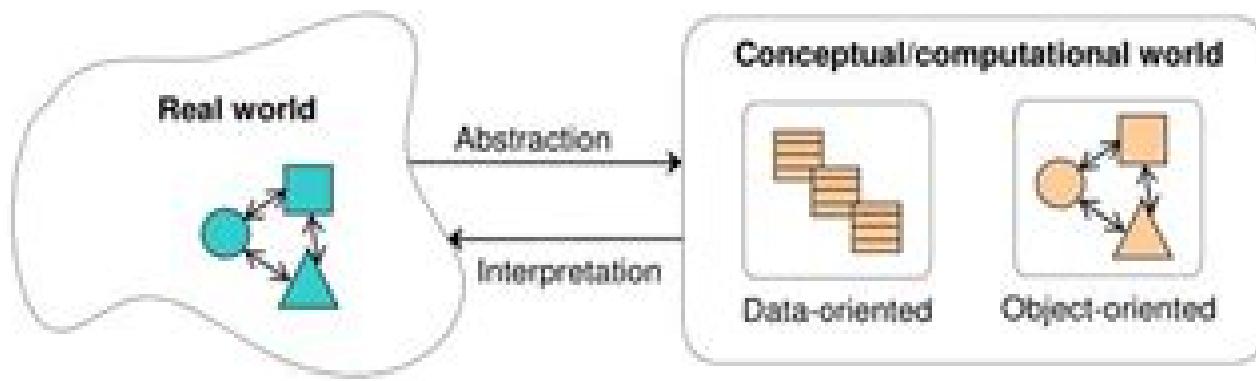


# Object-Oriented Modeling

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- Uses object-orientation as a basis of modeling
- Models a system as a set of objects that interact with each others
- No semantic gap (or impedance mismatch)
- Seamless development process



# Object Oriented Conceptual Modeling

**David W. Embley, Robert C. Goldstein**

## **Object Oriented Conceptual Modeling:**

Object-oriented Conceptual Modeling Tharam S. Dillon, Poh Lee Tan, 1993 This tutorial introduction to object oriented databases examines concepts and implementations from a commercial business viewpoint. Covers systems development and its relationship to conceptual modeling, object oriented programming vs traditional programming, conceptual modeling, object oriented analysis, object oriented expert knowledge based systems and more

*Object Oriented Conceptual Modeling*

Joseph L. Dvorak, 1994 **Language features for object-oriented conceptual modeling** Ralf Jungclaus, Thorsten

Hartmann, Gunter Saake, 1991 **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

**Model-Driven Architecture in Practice** Oscar Pastor, Juan Carlos Molina, 2007-06-14 Formal specification languages, object oriented methods, CASE tools, component based software production, agent oriented, aspect oriented. During the last two decades many techniques have been proposed from both research and industry in order to generate a correct software product from a higher level system specification. Nevertheless, the many failures in achieving this goal have resulted in scepticism when facing any new proposal that offers a 'press the button get all the code' strategy. And now the hype around OMG's MDA has given a new push to these strategies. Oscar Pastor and Juan Carlos Molina combine a sound theoretical approach based on more than 10 years research with industrial strength and practical software development experience. They present a software process based on model transformation technology, thus making the statement 'the model is the code' instead of the common 'the code is the model' finally come true. They clearly explain which conceptual primitives should be present in a system specification, how to use UML to properly represent this subset of basic conceptual constructs, how to identify just those diagrams and modeling constructs that are actually required to create a meaningful conceptual schema, and finally how to accomplish the transformation process between the problem space and the solution space. Their approach is fully supported by commercially available tools and the subsequent software production process is dramatically more efficient than today's conventional software development processes, saving many man days of work. For software developers and architects, project managers and people responsible for quality assurance, this book introduces all the relevant information required to understand and put MDA into industrial practice.

**Conceptual Models** Jeff Johnson, Austin

Henderson, 2024-04-27 This book presents readers with an exploration of the concept of Conceptual Models and argues that they are core to achieving good design of interactive applications that are easy, effective and enjoyable to use. The authors

years of experience helping companies create interactive software applications revealed that interactive applications built without Conceptual Models generally result in fraught production processes and designs that are confusing and difficult to learn remember and use Instead the book shows that Conceptual Models can be a central link between the elements involved in the use of interactive applications people's tasks domains their plans for performing those tasks the use of applications in the plans the conceptual structure of applications the presentation of the conceptual model i.e. the user interface the terms used to describe it its implementation and the learning that people must do to use the application Readers will learn how putting a Conceptual Model at the core of the design and development process can pay rich dividends designs are simpler more coherent and better aligned with users tasks unnecessary features are avoided documentation is easier development is faster and cheaper customer uptake is improved and the need for training and customer support is reduced To support its use in instruction this second edition has been revised to explain the history and theoretical context of conceptual modeling using a consistent vocabulary describe the structure of conceptual models provide more current and more complete examples explain how conceptual models fit into design and development and further summarize the benefits of conceptual modeling

**Conceptual Modeling - ER 2008** Qing Li,2008-10-07 This book constitutes the refereed proceedings of the 27th International Conference on Conceptual Modeling ER 2008 held in Barcelona Spain in October 2008 The 33 revised full papers presented together with 18 demo papers were carefully reviewed and selected from 178 submissions The papers are organized in topical sections on novel semantics ontology patterns privacy compliance location process management and design process models queries similarity and coherence space and time system design translation transformation and search

**Conceptual Modeling - ER 2002** Stefano Spaccapietra, Salvatore March, Yahiko Kambayashi,2003-06-30 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 refined 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

**An Object-oriented Conceptual Model for the Design and Evolution of Object-oriented Information Systems** David Paul Tegarden, 1991

**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

**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

**A Requirements Engineering Approach for Object-Oriented Conceptual Modeling** César Emilio Insfrán Pelozo, Óscar Pastor López, 2003

**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

**Advances in Object-oriented Data Modeling** M. Papazoglou, S. Spaccapietra, Zahir Tari, 2000 This book focuses on recent developments in representational

and processing aspects of complex data intensive applications Until recently information systems have been designed around different business functions such as accounts payable and inventory control Object oriented modeling in contrast structures systems around the data the objects that make up the various business functions Because information about a particular function is limited to one place to the object the system is shielded from the effects of change Object oriented modeling also promotes better understanding of requirements clear designs and more easily maintainable systems This book focuses on recent developments in representational and processing aspects of complex data intensive applications The chapters cover hot topics such as application behavior and consistency reverse engineering interoperability and collaboration between objects and work flow modeling Each chapter contains a review of its subject followed by object oriented modeling techniques and methodologies that can be applied to real life applications Contributors F Casati S Ceri R Cicchetti L M L Delcambre E F Ecklund D W Embley G Engels J M Gagnon R Godin M Gogolla L Groenewegen G S Jensen G Kappel B J Krmer S W Liddle R Missaoui M Norrie M P Papazoglou C Parent B Pernie P Poncelet G Pozzi M Schreft R T Snodgrass S Spaccapietra M Stumptner M Teisseire W J van den Heuvel S N Woodfield *Advances in Conceptual Modeling* Peter P. Chen, David W. Embley, Jacques Kouloumdjian, Stephen W. Liddle, John F. Roddick, 2007-07-16 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 han dling 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 Modehng WWWCM 99 which ana lyzes the mutual contribution of WWW resources and techniques with con ceptual modeling ER 99 has been organized so that there is no overlap between conference ses sions 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 ECDM 99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management ECDM 99 which was held in conjunction with the 18th International Conference on Conceptual Modehng ER 99 in Paris France November 15 18 1999 Using Conceptual Modelling and an Object-oriented Environment to Support Building Cost Control During Early Design Jin-Yeu Tsou, 1992 Conceptual Modeling - ER '97 David W. Embley, Robert C. Goldstein, 2014-10-08 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 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 specifically 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.

*Building Object-oriented Conceptual Models Using Natural Language Processing Techniques* H. M. Harman, 2000

**Conceptual Modeling, Databases, and Case** Pericles Loucopoulos, Roberto Zicari, 1992-10-16 Conceptual Modeling is used to create databases appropriate across numerous applications areas while still retaining custom qualities of the individual database. Contains original chapters written by leading international researchers in order to integrate Conceptual Modeling Computer Aided Software Engineering CASE and database systems and present their combined impact on the development of new information systems. Features papers on Extensible Systems Deductive Databases and Object Oriented DBMS.

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