

2

An Introduction to Conceptual Modeling of Information Systems

Antoni Olivé

2.1 The Functions of an Information System

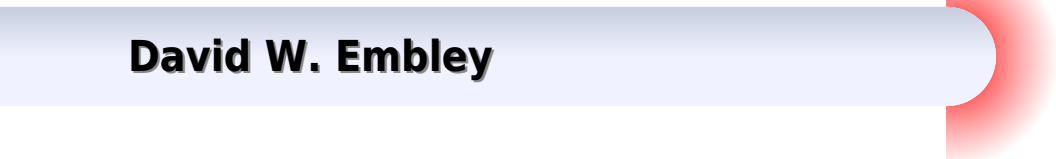
The concept *information system* began to emerge around 1960. Even though it may be considered an old concept, it is still difficult to define what an IS is. Part of that difficulty is because ISs can be analyzed in at least three distinct and complementary perspectives [1]:

- The contribution they provide;
- Their structure and behavior;
- The functions they perform.

From the first perspective, ISs are defined as means for wider systems to achieve their objectives. That kind of definition emphasizes that ISs are sub-systems of wider systems, to which they contribute. An IS does not exist for itself. Examples of that kind of definition would be: "An IS is a system designed to support operations, management, and decision-making in an organization" or "An IS is a system that facilitates communication among its users."

Conceptual Modeling Of Information Systems

David W. Embley



Conceptual Modeling Of Information Systems:

Conceptual Modeling of Information Systems Antoni Olivé, 2007-08-28 This brilliant textbook explains in detail the principles of conceptual modeling independently from particular methods and languages and shows how to apply them in real world projects The author covers all aspects of the engineering process from structural modeling over behavioral modeling to meta modeling and completes the presentation with an extensive case study based on the osCommerce system Written for computer science students in classes on information systems modeling as well as for professionals feeling the need to formalize their experiences or to update their knowledge Oliv delivers here a comprehensive treatment of all aspects of the modeling process His book is complemented by lots of exercises and additional online teaching material **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 lvsberg s 67th birthday Many friends of this information systems modeling pioneer happily contributed their latest research results from fields like data modeling goal oriented modeling agent oriented modeling and process oriented modeling Overall the contributions reflect the most important developments and application areas of conceptual modeling in recent years and they also pinpoint trends in conceptual modeling for the next decade This wide selection corresponds to the broad spectrum of Arne s activities and long term responsibilities with the VLDB Endowment IFIP and ERCIM Arne was presented with this book at CAiSE 2007 when the event which he cofounded in 1989 returned to his hometown of Trondheim **Conceptual**

Modeling 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 flexibility 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.

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 Perspectives Jordi Cabot, Cristina Gómez, Oscar Pastor, Maria Ribera Sancho, Ernest Teniente, 2017-10-12 Conceptual modeling has always been one of the main issues in information systems engineering as it aims to describe the general knowledge of the system at an abstract level that facilitates user understanding and software development. This collection of selected papers provides a comprehensive and extremely readable overview of what conceptual modeling is and perspectives on making it more and more relevant in our society. It covers topics like modeling the human genome, blockchain technology, model-driven software development, data integration, and wiki-like repositories and demonstrates the general applicability of conceptual modeling to various problems in diverse domains. Overall, this book is a source of inspiration for everybody in academia working on the vision of creating a strong, fruitful, and creative community of conceptual modelers. With this book, the editors and authors want to honor Prof. Antoni Olivé for his enormous and ongoing contributions to the conceptual modeling discipline. It was presented to him on the occasion of his keynote at ER 2017 in Valencia, a conference that he has contributed to and supported for over 20 years. Thank you very much to Antoni for so many years of cooperation and friendship.

Model-Based Development and Evolution of Information Systems John Krogstie, 2012-05-17 This book introduces and describes in detail the SEQUAL framework for understanding the quality of models and modeling languages, including the numerous specializations of the generic framework and the various ways in which this can be used for different

applications Topics and features contains case studies chapter summaries review questions problems and exercises throughout the text in addition to Appendices on terminology and abbreviations presents a thorough introduction to the most important concepts in conceptual modeling including the underlying philosophical outlook on the quality of models describes the basic tasks and model types in information systems development and evolution and the main methodologies for mixing different phases of information system development provides an overview of the general mechanisms and perspectives used in conceptual modeling predicts future trends in technological development and discusses how the role of modeling can be envisaged in this landscape

Conceptual Modeling - ER 2006 David W. Embley, 2006-10-24 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

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

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field of computer science Conceptual Modeling for New Information Systems Technologies Hiroshi Arisawa, Yahiko Kambayashi, 2002-09-18 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 flexibility 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

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