

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

Yijin Wang



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

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

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 Oliv 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

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 Juan C.

Trujillo, Karen C. Davis, Xiaoyong Du, Zhanhuai Li, Tok Wang Ling, Guoliang Li, Mong Li Lee, 2018-09-25 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. Conceptual Modeling - ER 2011 Manfred Jeusfeld, Lois Delcambre, Tok Wang Ling, 2011-10-12

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 2001* Hideko S. Kunii, Sushil Jajodia, 2001-11-14 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 Peter P. Chen, Jacky Akoka, Hannu Kangassalu, Bernhard Thalheim, 2003-05-21 This volume contains a collection of selected papers presented at the Symposium on Conceptual Modeling which was held in Los Angeles, California on December 2nd 1997 immediately before the 16th 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

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