1. Record Nr. UNISA996465390303316

Titolo	Conceptual Modeling - ER 2002 [[electronic resource]] : 21st International Conference on Conceptual Modeling Tampere, Finland, October 7-11, 2002 Proceedings / / edited by Stefano Spaccapietra, Salvatore March, Yahiko Kambayashi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-45816-6
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XX, 484 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2503
Disciplina	005.75/6
Soggetti	Computer simulation Artificial intelligence Database management Application software Mathematical logic Software engineering Simulation and Modeling Artificial Intelligence Database Management Information Systems Applications (incl. Internet) Mathematical Logic and Formal Languages Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Keynote Addresses -- Conceptual Modelling and Ontology: Possibilities and Pitfalls -- An Ontology for m-Business Models -- Pre-Conference Tutorials -- Modeling Dynamics of Business Processes: Key for Building Next Generation of Business Information Systems -- Ontology-Driven Conceptual Modelling -- Conference Tutorials -- Advanced OO Modelling: Metamodels and Notations for the New Millennium -- Ontology-Driven Conceptual Modelling: Advanced Concepts -- Workflow Management in Electronic Commerce -- Panel -- Do We Need

an Ontology of Ontologies? -- Demonstrations and Posters -- Development of a Conceptual Data Model for Digital Spatio-Temporal Geographical Information, with Application to Several Themes and GIS -- Using Semantic Rules Database to Dynamically Set up the ICSpace Virtual Building -- On the Transformation of Object Oriented Conceptual Models to Logical Theories: From EROOS to ID-Logic -- Semantics and Meta-models -- Component Construction of Database Schemes -- Multirelational Semantics for Extended Entity-Relationship Schemata With Applications -- A Meta-model for e-Contract Template Variable Dependencies Facilitating e-Negotiation -- Principles of Ontology -- On the General Ontological Foundations of Conceptual Modeling -- Finding and Characterizing Changes in Ontologies -- Superimposed Schematics: Introducing E-R Structure for In-Situ Information Selections -- Web Environments -- Web extensions to UML: Using the MVC Triad -- Wiccap Data Model: Mapping Physical Websites to Logical Views -- Representing and Querying Semistructured Web Data Using Nested Tables with Structural Variants -- Theory and Methods -- On the Transformation of Object-Oriented Conceptual Models to Logical Theories -- Reasoning with Goal Models -- Registering Scientific Information Sources for Semantic Mediation -- Methods and Tools -- Multidimensional Modeling with UML Package Diagrams -- Comparative Evaluation of Large Data Model Representation Methods: The Analyst's Perspective -- Extracting Conceptual Relationships from Specialized Documents -- Applications for Practice -- A Transactional Model for Data Warehouse Maintenance -- The Account Data Model -- A Semantic Model for Hypertext Data Caching -- Applying Ontology in Conceptual Modeling -- Understanding and Simulating Narratives in the Context of Information Systems -- Global Schema Generation Using Formal Ontologies -- Automatically Extracting Ontologically Specified Data from HTML Tables of Unknown Structure -- System and Data Integration -- On the Expressive Power of Data Integration Systems -- Property-Based Semantic Reconciliation of Heterogeneous Information Sources -- Conceptual integration of multiple partial geometric models -- Quality Assessment -- Evaluating the Quality of Process Models: Empirical Testing of a Quality Framework -- Data Quality in Web Information Systems -- XML & Object Systems -- Conceptual Modeling Quality - From EER to UML Schemas Evaluation -- Conceptual Modeling for Customized XML Schemas -- A Flexible Cost Model for Abstract Object-Oriented Database Schemas -- Designing Valid XML Views.

Sommario/riassunto

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 ?elds of database design and conceptual modeling. Throughout the years, the scope of these conferences has extended from database design and speci?c topics of that area to more u- versal or re?ned 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 di?erent 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 justi?cation for information systems development. It supports and facilitates the understanding, explanation, pred- tion, 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 di?erent 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.