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Titolo	Conceptual Modeling for Novel Application Domains : ER 2003 Workshops ECOMO, IWCMQ, AOIS, and XSDM, Chicago, IL, USA, October 13, 2003, Proceedings / / edited by Manfred A. Jeusfeld, Oscar Pastor
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Conceptual Modeling Approaches for E-Business at ER 2003 (eCOMO 2003) -- Preface to eCOMO 2003 -- Managing Evolving Business Workflows through the Capture of Descriptive Information -- The Benefits of Rapid Modelling for E-business System Development -- Prediction of Consumer Preference through Bayesian Classification and Generating Profile -- Developing Web Applications from Conceptual Models. A Web Services Approach -- A Framework for Business Rule Driven Web Service Composition -- Virtual Integration of the Tile Industry (VITI) -- Second International Workshop on Conceptual

Modeling Quality at ER 2003 (IWCMQ 2003) -- Preface to IWCMQ 2003  
-- Multiperspective Evaluation of Reference Models – Towards a Framework -- On the Acceptability of Conceptual Design Models for Web Applications -- Consistency by Construction: The Case of MERODE -- Defining Metrics for UML Statechart Diagrams in a Methodological Way -- Visual SQL – High-Quality ER-Based Query Treatment -- Multidimensional Schemas Quality: Assessing and Balancing Analyzability and Simplicity -- Conceptual Modeling of Accounting Information Systems: A Comparative Study of REA and ER Diagrams -- Agent-Oriented Information Systems at ER 2003 (AOIS 2003) -- Preface to AOIS 2003 -- Bringing Multi-agent Systems into Human Organizations: Application to a Multi-agent Information System -- Reconciling Physical, Communicative, and Social/Institutional Domains in Agent Oriented Information Systems – A Unified Framework -- An Agent-Based Active Portal Framework -- Agent-Oriented Modeling and Agent-Based Simulation -- REF: A Practical Agent-Based Requirement Engineering Framework -- Patterns for Motivating an Agent-Based Approach -- Using Scenarios for Contextual Design in Agent-Oriented Information Systems -- Dynamic Matchmaking between Messages and Services in Multi-agent Information Systems -- International Workshop on XSDM at ER 2003 (XSDM 2003) -- Preface to XSDM 2003 -- A Sufficient and Necessary Condition for the Consistency of XML DTDs -- Index Selection for Efficient XML Path Expression Processing -- CX-DIFF: A Change Detection Algorithm for XML Content and Change Presentation Issues for WebVigiL -- Storing and Querying XML Documents Using a Path Table in Relational Databases -- Improving Query Performance Using Materialized XML Views: A Learning-Based Approach -- A Framework for Management of Concurrent XML Markup -- Object Oriented XML Query by Example -- Automatic Generation of XML from Relations: The Nested Relation Approach -- Toward the Automatic Derivation of XML Transformations -- VACXENE: A User-Friendly Visual Synthetic XML Generator -- A New Inlining Algorithm for Mapping XML DTDs to Relational Schemas -- From XML DTDs to Entity-Relationship Schemas -- Extracting Relations from XML Documents -- Extending XML Schema with Nonmonotonic Inheritance.

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### Sommario/riassunto

ER2003, the 22nd International Conference on Conceptual Modeling in Chicago, Illinois, hosted four workshops on emerging and maturing aspects of conceptual modeling. While the entity-relationship approach is used to address data (base) modeling, the increasingly connected information infrastructure demands - swers that can handle complexity and can develop models about systems that are maintainable. We received seven excellent proposals for workshops to be held at ER 2003, out of which we selected the following four based on peer reviews: - Conceptual Modeling Approaches for E-Business (eCOMO 2003) brought together researchers and practitioners interested in conceptual modeling techniques for e-business. - The International Workshop on Conceptual Modeling Quality (IWCMQ 2003) concentrated on approaches to quality assurance in the modeling process. - The International Bi-Conference Workshop on Agent-Oriented Information Systems (AOIS 2003) was devoted to investigating the agent paradigm for information systems development. - Finally, the International Workshop on XML Schema and Data Management (XSDM 2003) addressed the impact of XML on topics like data integration, change management, and the Semantic Web. All four workshops highlighted relatively new viewpoints on conceptual - deling. Conceptual modeling as such has been greatly influenced and shaped by the entity-relationship model of Peter Chen. However, new

developments like object-orientation and the World-Wide Web require adaptions and new techniques. No longer can developers assume that they can completely understand or model the information system. The new developments create challenges in various directions; some of these were discussed in detail in the four ER 2003 workshops: E-Business and E-Commerce. The rise of the Internet has created new opportunities for defining and enacting business relations between partners. The question is how information systems can help in finding business partners, creating new services, and enacting those new services.

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