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Individuals of Configurable Products -- Updates and Application Migration Support in an ODMG Temporal Extension -- ODMG Language Extensions for Generalized Schema Versioning Support -- Transposed Storage of an Object Database to Reduce the Cost of Schema Changes -- A Survey of Current Methods for Integrity Constraint Maintenance and View Updating -- Specification and Implementation of Temporal Databases in a Bitemporal Event Calculus -- Schema Versioning for Archives in Database Systems -- Modeling Cyclic Change -- On the Ontological Expressiveness of Temporal Extensions to the Entity-Relationship Model -- Semantic Change Patterns in the Conceptual Schema -- International Workshop on Reverse Engineering in Information Systems (REIS'99) -- The BRIDGE: A Toolkit Approach to Reverse Engineering System Metadata in Support of Migration to Enterprise Software -- Data Structure Extraction in Database Reverse Engineering -- Documenting Legacy Relational Databases -- Relational Database Reverse Engineering -- A Tool to Reengineer Legacy Systems to Object-Oriented Systems -- CAPPLES — A Capacity Planning and Performance Analysis Method for the Migration of Legacy Systems -- Reuse of Database Design Decisions -- International Workshop on the World Wide Web and Conceptual Modeling (WWWCM'99) -- Modeling Interactive Web Sources for Information Mediation -- Web Application Models Are More than Conceptual Models -- E/R Based Scenario Modeling for Rapid Prototyping of Web Information Services -- Models for Superimposed Information -- Formalizing the Specification of Web Applications.-"Modeling-by-Patterns" of Web Applications -- A Unified Framework for Wrapping, Mediating and Restructuring Information from the Web -- Semantically Accessing Documents Using Conceptual Model Descriptions -- Knowledge Discovery for Automatic Query Expansion on the World Wide Web -- KnowCat: A Web Application for Knowledge Organization -- Meta-modeling for Web-Based Teachware Management -- Data Warehouse Design for E-Commerce Environments.

Sommario/riassunto

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.