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in Goal Models: An Interactive Backward Reasoning Approach -- The Model Role Level – A Vision -- Requirements Engineering and Modeling 2 -- Establishing Regulatory Compliance for Information System Requirements: An Experience Report from the Health Care Domain -- Decision-Making Ontology for Information System Engineering -- Reasoning with Optional and Preferred Requirements -- Data Evolution and Adaptation -- A Conceptual Approach to Database Applications Evolution -- Automated Co-evolution of Conceptual Models, Physical Databases, and Mappings -- A SchemaGuide for Accelerating the View Adaptation Process -- Operations on Spatio-temporal Data -- Complexity of Reasoning over Temporal Data Models -- Using Preaggregation to Speed Up Scaling Operations on Massive Spatio-temporal Data -- Situation Prediction Nets -- Model Abstraction, Feature Modeling, and Filtering -- Granularity in Conceptual Modelling: Application to Metamodels -- Feature Assembly: A New Feature Modeling Technique -- A Method for Filtering Large Conceptual Schemas -- Integration and Composition -- Measuring the Quality of an Integrated Schema -- Contextual Factors in Database Integration — A Delphi Study -- Building Dynamic Models of Service Compositions with Simulation of Provision Resources -- Consistency, Satisfiability and Compliance Checking -- Maintaining Consistency of Probabilistic Databases: A Linear Programming Approach -- Full Satisfiability of UML Class Diagrams -- On Enabling Data-Aware Compliance Checking of Business Process Models -- Using Ontologies for Query Answering -- Query Answering under Expressive Entity-Relationship Schemata -- SQOWL: Type Inference in an RDBMS -- Querying Databases with Taxonomies -- Document and Query Processing -- What Is Wrong with Digital Documents? A Conceptual Model for Structural Cross-Media Content Composition and Reuse -- Classification of Index Partitions to Boost XML Query Performance -- Specifying Aggregation Functions in Multidimensional Models with OCL -- Demos and Posters -- The CARD System -- AuRUS: Automated Reasoning on UML/OCL Schemas -- How the Structuring of Domain Knowledge Helps Casual Process Modelers -- SPEED: A Semantics-Based Pipeline for Economic Event Detection -- Prediction of Business Process Model Quality Based on Structural Metrics -- Modelling Functional Requirements in Spatial Design -- Business Processes Contextualisation via Context Analysis -- A Generic Perspective Model for the Generation of Business Process Views -- Extending Organizational Modeling with Business Services Concepts: An Overview of the Proposed Architecture.

Sommario/riassunto

th This publication comprises the proceedings of the 29 International Conference on Conceptual Modeling (ER 2010), which was held this year in Vancouver, British Columbia, Canada. Conceptual modeling can be considered as lying at the confluence of the three main aspects of information technology applications — the world of the stakeholders and users, the world of the developers, and the technologies available to them. C- ceptual models provide abstractions of various aspects related to the development of systems, such as the application domain, user needs, database design, and software specifications. These models are used to analyze and define user needs and system requirements, to support communications between stakeholders and developers, to provide the basis for systems design, and to document the requirements for and the design rationale of developed systems. Because of their role at the junction of usage, development, and technology, c- ceptual models can be very important to the successful development and deployment of IT applications. Therefore, the research and development of methods, techniques, tools and languages that can be used in the process of creating, maintaining, and

using conceptual models is of great practical and theoretical importance. Such work is c- ducted in academia, research institutions, and industry. Conceptual modeling is now applied in virtually all areas of IT applications, and spans varied domains such as organizational information systems, systems that include specialized data for spatial, temporal, and multimedia applications, and biomedical applications.