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Auditor: Analyzing Data Quality Using Pattern Tableaux -- Schema AND Data: A Holistic Approach to Mapping, Resolution and Fusion in Information Integration -- Conceptual Modeling -- A Generic Set Theory-Based Pattern Matching Approach for the Analysis of Conceptual Models -- An Empirical Study of Enterprise Conceptual Modeling -- Formalizing Linguistic Conventions for Conceptual Models -- Requirements Engineering -- Monitoring and Diagnosing Malicious Attacks with Autonomic Software -- A Modeling Ontology for Integrating Vulnerabilities into Security Requirements Conceptual Foundations -- Modeling Domain Variability in Requirements Engineering with Contexts -- Foundational Aspects -- Information Networking Model -- Towards an Ontological Modeling with Dependent Types: Application to Part-Whole Relations -- Inducing Metaassociations and Induced Relationships -- Query Approaches -- Tractable Query Answering over Conceptual Schemata -- Query-By-Keywords (QBK): Query Formulation Using Semantics and Feedback -- Cluster-Based Exploration for Effective Keyword Search over Semantic Datasets -- Space and Time Modeling -- Geometrically Enhanced Conceptual Modelling -- Anchor Modeling -- Evaluating Exceptions on Time Slices -- Schema Matching and Integration -- A Strategy to Revise the Constraints of the Mediated Schema -- Schema Normalization for Improving Schema Matching -- Extensible User-Based XML Grammar Matching -- Ontology-Based Approaches -- Modeling Associations through Intensional Attributes -- Modeling Concept Evolution: A Historical Perspective -- FOCIH: Form-Based Ontology Creation and Information Harvesting -- Specifying Valid Compound Terms in Interrelated Faceted Taxonomies -- Application Contexts -- Conceptual Modeling in Disaster Planning Using Agent Constructs -- Modelling Safe Interface Interactions in Web Applications -- A Conceptual Modeling Approach for OLAP Personalization -- Creating User Profiles Using Wikipedia -- Process and Service Modeling -- Hosted Universal Composition: Models, Languages and Infrastructure in mashArt -- From Static Methods to Role-Driven Service Invocation – A Metamodel for Active Content in Object Databases -- Business Process Modeling: Perceived Benefits -- Industrial Session -- Designing Law-Compliant Software Requirements -- A Knowledge-Based and Model-Driven Requirements Engineering Approach to Conceptual Satellite Design -- Virtual Business Operating Environment in the Cloud: Conceptual Architecture and Challenges.

Sommario/riassunto

This book constitutes the refereed proceedings of the 28th International Conference on Conceptual Modeling, ER 2009, held in Gramado, Brazil, in November 2009. The 31 revised full papers presented together with 18 demo papers were carefully reviewed and selected from 162 submissions. The papers are organized in topical sections on conceptual modeling, requirements engineering, query approaches, space and time modeling, schema matching and integration, application contexts, process and service modeling, and industrial session.
