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Soggetti	Data structures (Computer science) Database management Software engineering Mathematical logic Application software Artificial intelligence Data Structures and Information Theory Database Management Software Engineering Mathematical Logic and Formal Languages Information Systems Applications (incl. Internet) Artificial Intelligence
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talks -- Semantic Web Application Modeling -- Oh, so That Is What You Meant! The Interplay of Data Quality and Data Semantics -- Enterprise Information Integration – XML to the Rescue! -- Workflow Using AUML and Agents -- Systems and Data Integration -- Statistical Analysis as Methodological Framework for Data(base) Integration -- QoM: Qualitative and Quantitative Schema Match Measure -- The Uni-level Description: A Uniform Framework for Representing Information in Multiple Data Models -- Workflows, Patterns, and Ontologies --

Temporal Conceptual Modelling of Workflows -- Towards a Logical Model for Patterns -- Designing Foundational Ontologies -- Metamodeling and Methodology -- An OPM-Based Metamodel of System Development Process -- A Unified Approach for Software Policy Modeling: Incorporating Implementation into a Modeling Methodology -- Deriving Use Cases from Business Process Models -- Views and XQuery Approaches -- Order-Sensitive View Maintenance of Materialized XQuery Views -- Automatic Generation of XQuery View Definitions from ORA-SS Views -- Automaton Meets Query Algebra: Towards a Unified Model for XQuery Evaluation over XML Data Streams -- Querying Heterogeneous XML Sources through a Conceptual Schema -- Web Application Modeling and Development -- Analysis of Web Services Composition Languages: The Case of BPEL4WS -- Extending Conceptual Models for Web Based Applications -- Development of Web Applications from Web Enhanced Conceptual Schemas -- Extending Hypertext Conceptual Models with Process-Oriented Primitives -- Requirements and Evolution -- Requirement Engineering Meets Security: A Case Study on Modelling Secure Electronic Transactions by VISA and Mastercard -- Goal-Based Business Modeling Oriented towards Late Requirements Generation -- Strategy for Database Application Evolution: The DB-MAIN Approach -- Data Warehousing and OLAP -- A UML Based Approach for Modeling ETL Processes in Data Warehouses -- A General Model for Online Analytical Processing of Complex Data -- An Interpolated Volume Model for Databases -- Conceptual Modeling Foundations -- Integrity Constraints Definition in Object-Oriented Conceptual Modeling Languages -- Conceptual Treatment of Multivalued Dependencies -- Entity Types Derived by Symbol-Generating Rules -- Data Mining -- DAISY, an RER Model Based Interface for RDB to ILP -- Context-Based Data Mining Using Ontologies -- Mining Typical Preferences of Collaborative User Groups -- Innovative Approaches to Conceptual Modeling -- Conceptual Modeling of Concurrent Systems through Stepwise Abstraction and Refinement Using Petri Net Morphisms -- Taxonomy-Based Conceptual Modeling for Peer-to-Peer Networks -- EITH – A Unifying Representation for Database Schema and Application Code in Enterprise Knowledge Extraction -- Queries -- A Heuristic-Based Methodology for Semantic Augmentation of User Queries on the Web -- On Analysing Query Ambiguity for Query Refinement: The Librarian Agent Approach -- A Declarative XML-RL Update Language -- Schema and Ontology Integration -- Resolving Structural Conflicts in the Integration of XML Schemas: A Semantic Approach -- Operators and Classification for Data Mapping in Semantic Integration -- Querying and Integrating Ontologies Viewed as Conceptual Schemas -- Industrial Abstracts -- A Comparison of Frameworks for Enterprise Architecture Modeling -- Bless the ODS -- Modeling Reactive Behavior in ORM -- Developing Complex Systems with Object-Process Methodology Using OPCAT -- Conceptual Data Models for Engineering Information Modeling and Formal Transformation of EER and EXPRESS-G -- AXIS: A XML Schema Integration System -- Episode-Based Conceptual Mining of Large Health Collections.

Sommario/riassunto

The 22nd International Conference on Conceptual Modeling (ER 2003) returned to Chicago after an absence of 18 years. Chicago, a city well known for its trendsetting and daring architecture, has met the new century with a renewed commitment to open public spaces and human interaction. Thus it provided a fitting venue for ER 2003, the scope of which was expanded to encompass all aspects of conceptual modeling in order to deal with constantly changing information technology and business practices and to accommodate a new openness in connecting

systems to each other and to human users. The ER 2003 Program Co-chairs, Il-Yeol Song, Stephen Liddle, and Tok Wang Ling, along with an outstanding Program Committee assembled one of the finest technical programs of this conference series. In keeping with the tradition of previous ER conferences, the program for ER 2003 also included four preconference workshops, two preconference tutorials, two conference tutorials, two panels, and a demos and poster session. The Program Co-chairs, as well as Manfred Jeusfeld and Oscar Pastor (Workshop Co-chairs), Ee-Peng Lim and Tobey Teorey (Tutorial Co-chairs), Avigdor Gal and Elisa Bertino (Panel Co-chairs), and Heinrich Mayr (Demos and Poster Chair), deserve our appreciation for an excellent job. It was a pleasure working with all of them.
