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   Disciplina   005.1

   Soggetti   Database management
                         Information storage and retrieval
                         Application software
                         Artificial intelligence
                         Computers and civilization
                         Database Management
                         Science, Humanities and Social Sciences, multidisciplinary
                         Information Storage and Retrieval
                         Information Systems Applications (incl. Internet)
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   Nota di bibliografia Includes bibliographical references at the end of each chapters and
                         index.

   Nota di contenuto   Invited Talk -- Towards Self-Managing Large Scale Information Systems
                         -- Autonomous Semantic Web Services -- Managing an XML Warehouse
                         in a P2P Context -- Regular Papers -- Multivalued Dependencies and a
                         4NF for XML -- Query Processing and Optimization for Regular Path
                         Expressions -- An Adaptive Document Version Management Scheme --
                         Integrating Security and Systems Engineering: Towards the Modelling of
                         Secure Information Systems -- IBIS: Semantic Data Integration at Work
                         -- Towards a Generic Model for Situational Method Engineering --
                         Modeling Organizational Architectural Styles in UML -- No-redundant
                         Metrics for UML Class Diagram Structural Complexity -- Implementing

UML Association, Aggregation, and Composition. A Particular Interpretation Based on a Multidimensional Framework -- Exploring Web-Based Information System Design: A Discrete-Stage Methodology and the Corresponding Model -- Analysing the Impact of Adding Integrity Constraints to Information Systems -- Introducing Custom Language Extensions to SQL:1999 -- Aligning Application Architecture to the Business Context -- A Three-Tier View-Based Methodology for Adapting Human-Agent Collaboration Systems -- Deliberation in a Modeling and Simulation Environment for Inter-organizational Networks -- Information Integration in Schema-Based Peer-To-Peer Networks -- Processing Queries in a Large Peer-to-Peer System -- Consistent Process Execution in Peer-to-Peer Information Systems -- Translating and Searching Service Descriptions Using Ontologies -- On the Query Refinement in the Ontology-Based Searching for Information -- An Ontology-Driven Framework for the Management of Semantic Metadata Describing Audiovisual Information -- Designing a Federated Multimedia Information System on the Semantic Web -- Embedding Metrics into Information Systems Development Methods: An Application of Method Engineering Technique -- A Value-Oriented Approach to E-business Process Design -- Derivation Rules in Object-Oriented Conceptual Modeling Languages -- Issues of Information Semantics and Granularity in Cross-Media Publishing -- Ranking Web Documents with Dynamic Evaluation by Expert Groups -- Conceptual Modeling of Web Service Conversations -- Management Applications of the Web Service Offerings Language (WSOL) -- Leveraging Web-Services and Peer-to-Peer Networks -- View Materialization vs. Indexing: Balancing Space Constraints in Data Warehouse Design -- A Framework for the Design of ETL Scenarios -- Context Comparison for Object Fusion -- A Methodology for e-Service Substitutability in a Virtual District Environment -- Coordinating Web-Service Enabled Business Transactions with Contracts -- Pro-active Monitoring of Electronic Contracts -- Goal-Oriented Requirements Engineering: A Case Study in E-government -- Organizational Patterns for Early Requirements Analysis -- Evolving Requirements through Coordination Contracts -- Fitting Business Models to System Functionality Exploring the Fitness Relationship -- Selection of Materialized Views: A Cost-Based Approach -- Quality Prediction and Assessment for Product Lines -- User Agents in E-commerce Environments: Industry vs. Consumer Perspectives on Data Exchange -- Pattern-Driven Design of Agent Systems: Approach and Case Study -- Sharing Mobile Databases in Dynamically Configurable Environments.

Sommario/riassunto	This book constitutes the refereed proceedings of the 15th International Conference on Advanced Information Systems Engineering, CaiSE 2003, held in Klagenfurt, Austria in June 2003. The 45 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 219 submissions. The papers are organized in topical sections on XML, methods and models for information systems, UML, Internet business and social modeling, peer-to-peer systems, ontology-based methods, advanced design of information systems, knowledge, knowledge management, Web services, data warehouses, electronic agreements and workflow, requirements engineering, metrics and method engineering, and agent technologies and advanced environments.