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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3084
Disciplina	005.1
Soggetti	Data structures (Computer science) Computer science Database management Application software User interfaces (Computer systems) Information storage and retrieval Data Structures and Information Theory Popular Computer Science Database Management Information Systems Applications (incl. Internet) User Interfaces and Human Computer Interaction Information Storage and Retrieval
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talks -- Modelling in Information Systems Engineering When It Works and When It Doesn't -- Aligning Organizational Performance to IT Development and Integration -- Enterprise Modelling I -- Model Driven Architectures for Enterprise Information Systems -- Simple and Minimum-Cost Satisfiability for Goal Models -- Energy Services: A Case Study in Real-World Service Configuration -- Data Integration -- Experimenting Data Integration with DIS@DIS -- Data Integration Using ID-Logic -- AutoMed: A BAV Data Integration System for Heterogeneous Data Sources -- Conceptual Modelling I -- Adding

Agent-Oriented Concepts Derived from Gaia to Agent OPEN -- An Ontologically Well-Founded Profile for UML Conceptual Models -- Measuring Expressiveness in Conceptual Modeling -- Workflows -- Design and Implementation of the YAWL System -- MT-Flow – An Environment for Workflow-Supported Model Transformations in MDA -- Multiple Instantiation in a Dynamic Workflow Environment -- Methodologies for IS Development -- Method Components – Rationale Revealed -- Towards a Meta-tool for Change-Centric Method Engineering: A Typology of Generic Operators -- Two-Hemisphere Model Driven Approach: Engineering Based Software Development -- Databases -- Secure Databases: An Analysis of Clark-Wilson Model in a Database Environment -- Optimizing DOM Programs on XML Views over Existing Relational Databases -- Support for Collaboration between Individuals and Organisations I -- Formulating a General Standards Life Cycle -- Applicability of ERP Systems for Knowledge Management in the Context of Quality Management -- Web-Based Systems -- Model-Driven Web Service Development -- A Combined Runtime Environment and Web-Based Development Environment for Web Application Engineering -- Enabling Personalized Composition and Adaptive Provisioning of Web Services -- Requirements Engineering -- A Systematic Approach to Express IS Evolution Requirements Using Gap Modelling and Similarity Modelling Techniques -- How Requirements Specification Quality Depends on Tools: A Case Study -- Model-Driven Requirements Engineering: Synchronising Models in an Air Traffic Management Case Study -- Ontologies -- Facing Document-Provider Heterogeneity in Knowledge Portals -- Integration of OWL Ontologies in MPEG-7 and TV-Anytime Compliant Semantic Indexing -- Adaptive Web-Based Courseware Development Using Metadata Standards and Ontologies -- Conceptual Modeling II -- Objects Meet Relations: On the Transparent Management of Persistent Objects -- The Data Model and Algebra for Multidimensional Information -- Towards a Framework for Model Migration -- Data Warehousing -- OLAP Hierarchies: A Conceptual Perspective -- Analysing Slices of Data Warehouses to Detect Structural Modifications -- Empirical Validation of Metrics for Conceptual Models of Data Warehouses -- Enterprise Modelling II -- Goal-Driven Analysis of Process Model Validity -- Data Warehouse Methodology: A Process Driven Approach -- Interactive Models for Supporting Networked Organisations -- Support for Collaboration between Individuals and Organisations II -- Cooperation of Processes through Message Level Agreement -- CoDoc: Multi-mode Collaboration over Documents.

Sommario/riassunto

th CAiSE 2004 was the 16 in the series of International Conferences on Advanced Information Systems Engineering. In the year 2004 the conference was hosted by the Faculty of Computer Science and Information Technology, Riga Technical University, Latvia. Since the late 1980s, the CAiSE conferences have provided a forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering. The conference theme of CAiSE 2004 was Knowledge and Model Driven Information Systems Engineering for Networked Organizations. Modern businesses and IT systems are facing an ever more complex environment characterized by openness, variety, and change. Organizations are - coming less self-sufficient and increasingly dependent on business partners and other actors. These trends call for openness of business as well as IT systems, i.e. the ability to connect and interoperate with other systems. Furthermore, organizations are experiencing ever more variety in their business, in all conceivable dimensions. The different competencies required by the workforce are multiplying. In the same

way, the variety in technology is overwhelming with a multitude of languages, platforms, devices, standards, and products. Moreover, organizations need to manage an environment that is constantly changing and where lead times, product life cycles, and partner relationships are shortening.

The demand of having to constantly adapt IT to changing technologies and business practices has resulted in the birth of new ideas which may have a profound impact on the information systems engineering practices in future years, such as autonomic computing, component and services marketplaces and dynamically generated software.
