<<Conceptual Modeling>>

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This book constitutes the refereed joint proceedings of six internationl workshops held in conjunction with the 23rd International Conference on Conceptual Modeling, ER 2004, in Shanghai, China in November 2004.　The 56 revised full papers presented were carefully reviewed and selected from 163 submissions. The papers are organized in topical sections on geographical conceptual modeling; spatial storage, indexing, and data consistency; spatial representation and spatial services; spatial queries and retrieval, Web information integration; Web information mining; conceptual models for Web information; Web information systems and Webservices; systems evolution support in conceptual modeling; temporal and evolution aspects in Internat-based information systems; schema evolution and versioning in data management; conceptual modeling of agents; agents applications; digital government systems; digital government technologies; e-business systems requirements engineering; and e-business processes and infrastructure.

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First International Workshop on Conceptual Modeling　for GIS (CoMoGIS 2004)　Preface to CoMoGIS 2004Geographical Conceptual Modeling　A Conceptual Model for Supporting Multiple Representations　and Topology Management　Modeling Geospatial Databases with Plug-Ins for Visual Languages:　A Pragmatic Approach and the Impacts of 16 Years of Research　and Experimentations on Perceptory　Representing Ecological Niches in a Conceptual Model　A CASE Tool for Geographic Database Design　Supporting Analysis PatternsSpatial Storage, Indexing and Data Consistency　CML Storage: A Spatial Database Approach　　TPKDB-Tree: An Index Structure for Efficient Retrieval　of Future Positions of Moving Objects　Moving Point Indexing for Future Location Query　Topological Consistency for Collapse Operation in Multi-scale DatabasesSpatial Representation and Spatial Services　Symbolization of Mobile Object Trajectories　with the Support to Motion Data Mining　Representing and Reasoning About Spatial Knowledge　Based on Spatial Relevant Logic　Towards System Architecture of Spatial Information Grid　and Service-Based Collaboration　　Geo Web Services Based on SemanticSpatial Querying and Retrieval　A Scaleless Data Model for Direct　and Progressive SpatiM Query Processing　Querying Heterogeneous Spatial Databases:　Combining an Ontology with Similarity Functions　Retrieval of Heterogeneous Geographical Information　Using Concept Brokering and Upper Level Ontology　A New Quick Point Location AlgorithmFirst International Workshop on Conceptual　Model-Directed Web Information Integration　and Mining (CoMWIM 2004)　Preface to CoMWIM 2004Web Information Integration　Checking Semantic Integrity Constraints on Integrated Web Documents　　X2S: Translating XPath into Efficient SQL Queries……Third International Workshop on Evolution and Change in Data Management(ECDM2004)First International Worshop on Conceptual Modeling for Agents(CoMoA2004)First International Workshop on Digital Government:Systems and Technologies(DGOV2004)Fifth International Workshop on Conceptual Modeling Approaches for E-Business(eCOM2004)Author Index

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