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SeCoGIS 2010 – Fourth International Workshop on Semantic and Conceptual Issues in Geographic Information Systems -- 4th International Workshop on Semantic and Conceptual Issues in GIS (SeCoGIS 2010) -- Semantical Aspects -- W-Ray: A Strategy to Publish Deep Web Geographic Data -- G-Map Semantic Mapping Approach to Improve Semantic Interoperability of Distributed Geospatial Web Services -- MGsP: Extending the GsP to Support Semantic Interoperability of Geospatial Datacubes -- Implementation Aspects -- Range Queries over a Compact Representation of Minimum Bounding Rectangles -- A Sensor Observation Service Based on OGC Specifications for a Meteorological SDI in Galicia -- CMLSA 2010 – Third International Workshop on Conceptual Modeling for Life Sciences Applications -- Third International Workshop on Conceptual Modelling for Life Sciences Applications (CMLSA 2010) -- Conceptual Modelling for Bio-, Eco- and Agriinformatics -- Provenance Management in BioSciences -- Ontology-Based Agri-Environmental Planning for Whole Farm Plans -- CMS 2010 – First International Workshop on Conceptual Modeling of Service -- First International Workshop on Conceptual Modelling of Service (CMS 2010) -- Modeling Support for Service Integration -- A Formal Model for Service Mediators -- Reusing Legacy Systems in a Service-Oriented Architecture: A Model-Based Analysis -- Intelligent Author Identification -- Modeling Techniques for Services -- Abstraction, Restriction, and Co-creation: Three Perspectives on Services -- The Resource-Service-System Model for Service Science -- ACM-L 2010 The 3rd International Workshop on Active Conceptual Modeling of Learning, ACM-L -- Third International Workshop on Active Conceptual Modeling of Learning (ACM-L 2010) -- Advances in Active Conceptual Modeling of Learning -- Towards a Framework for Emergent Modeling -- When Entities Are Types: Effectively Modeling Type-Instantiation Relationships -- KBB: A Knowledge-Bundle Builder for Research Studies -- WISM 2010 – The 7th International Workshop on Web Information Systems Modeling -- 7th International Workshop on Web Information Systems Modeling (WISM 2010) -- Web Information Systems Development and Analysis Models -- Integration of Dialogue Patterns into the Conceptual Model of Storyboard Design -- Model-Driven Development of Multidimensional Models from Web Log Files -- Web Technologies and Applications -- Integrity Assurance for RESTful XML -- Collaboration Recommendation on Academic Social Networks -- Mining Economic Sentiment Using Argumentation Structures -- DE@ER 2010 – Domain Engineering -- Third Workshop on Domain Engineering (DE@ER 2010) -- Methods and Tools in Domain Engineering -- Evaluating Domain-Specific Modelling Solutions -- Towards a Reusable Unified Basis for Representing Business Domain Knowledge and Development Artifacts in Systems Engineering -- DaProS: A Data Property Specification Tool to Capture Scientific Sensor Data Properties -- FP-UML 2010 – Sixth International Workshop on Foundations and Practices of UML -- 6th International Workshop on Foundations and Practices of UML (FP-UML 2010) -- Semantics and Ontologies in UML -- Incorporating UML Class and Activity Constructs into UEML -- Data Modeling Is Important for SOA -- Representing Collectives and Their Members in UML Conceptual Models: An Ontological Analysis -- Automation and Transformation in UML -- UML Activities at Runtime -- Model-Driven Data Migration.

This book constitutes the refereed proceedings of workshops, held at the 29th International Conference on Conceptual Modeling, ER 2010, in Vancouver, Canada, in November 2010. The 31 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in sections on the workshops Semantic and

Conceptual Issues in GIS (SeCoGIS); Conceptual Modeling of Life Sciences Applications (CMLSA); Conceptual Modelling of Services (CMS); Active Conceptual Modeling of Learning (ACM-L); Web Information Systems Modeling (WISM); Domain Engineering (DE@ER); and Foundations and Practices of UML (FP-UML).

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