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Oscar Pastor (Eds.)

Conceptual Modeling – ER 2005

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Preface

Conceptual modeling is fundamental to any domain where one must cope with complex real-world situations and systems because it fosters communication between technology experts and those who would benefit from the application of those technologies. Conceptual modeling is the key mechanism for understanding and representing the domains of information system and database engineering but also increasingly for other domains including the new “virtual” e-environments and the information systems that support them. The importance of conceptual modeling in software engineering is evidenced by recent interest in “model-driven architecture” and “extreme non-programming”. Conceptual modeling also plays a prominent role in various technical disciplines and in the social sciences.

The Annual International Conference on Conceptual Modeling (referred to as the ER Conference) provides a central forum for presenting and discussing current research and applications in which conceptual modeling is the major emphasis. In keeping with this tradition, ER 2005, the 24th ER Conference, spanned the spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling, methods and tools for developing and communicating conceptual models, and techniques for transforming conceptual models into effective (information) system implementations. Moreover, new areas of conceptual modeling including Semantic Web services and the interdependencies of conceptual modeling with knowledge-based, logical and linguistic theories and approaches were also addressed.

The Call for Papers attracted 169 research papers from 37 different nations; 31 papers from 22 nations, i.e., 21.9%, were selected for presentation at the conference and publication in these proceedings based on a stringent review process in which each paper was assessed by at least three reviewers. These accepted papers, together with three invited keynote speeches, a demo and poster session, and a concluding panel discussion, were featured in 14 technical conference sessions. ER 2005 also featured five workshops organized in 15 technical sessions and 7 tutorials presented by outstanding experts in their fields. We were enthusiastic about the quality of this year’s program in all its particulars.

Many individuals contributed to making ER 2005 a success. First, we thank the authors for their valuable contributions. Second, we thank the members of the Program Committee and the additional reviewers for their detailed reviews and discussion. Special appreciation is due to our last-minute reviewers, i.e., the “Swat Team,” who provided additional reviews for papers, nearly around the clock, in parallel with the PC chairs meeting. Similarly, we thank the chairs of the various tracks for their effectiveness. And we offer special thanks to our keynote speakers for their insightful contributions.

We are very grateful to Peter Jelitsch, our student who composed these proceedings and painstakingly adapted nearly every paper to the LNCS layout. Likewise we acknowledge the engagement and enthusiasm of all members of the organizational team, who gave their best to make ER 2005 an unforgettable event. Last but not least we thank our sponsors and supporters, in particular the University of Klagenfurt, the Governor of Carinthia and the Mayor of Klagenfurt, for their financial support.

Klagenfurt, October 2005

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Specific Approaches

Conceptual Modeling of Structure and Behavior with UML – The Top Level Object-Oriented Framework (TLOOF) Approach <i>Iris Reinhartz-Berger</i>	1
How to Manage Uniformly Software Architecture at Different Abstraction Levels <i>Nassima Sadou, Dalila Tamzalit, Mourad Oussalah</i>	16
Schema Integration Based on Uncertain Semantic Mappings <i>Matteo Magnani, Nikos Rizopoulos, Peter McBrien, Danilo Montesi</i>	31

Process Modeling and Views

Combining Intention-Oriented and State-Based Process Modeling <i>Pnina Soffer, Colette Rolland</i>	47
Pattern-Based Analysis of the Control-Flow Perspective of UML Activity Diagrams <i>Petia Wohed, Wil M.P. van der Aalst, Marlon Dumas, Arthur H.M. ter Hofstede, Nick Russell</i>	63
A Three-Layered XML View Model: A Practical Approach <i>Rajagan R., Elizabeth Chang, Tharam S. Dillon, Ling Feng</i>	79

Conceptual Modeling in eLearning

Modeling Group-Based Education <i>Manuel Caeiro-Rodríguez, Martín Llamas-Nistal, Luis Anido-Rifón</i>	96
Learning Process Models as Mediators Between Didactical Practice and Web Support <i>Renate Motschnig-Pitrik, Michael Derntl</i>	112

Managing Models and Modeling

A Fundamental View on the Process of Conceptual Modeling
*S.J.B.A. Hoppenbrouwers, H.A. (Erik) Proper,
Th.P. van der Weide* 128

How to Tame a Very Large ER Diagram (Using Link Analysis and
Force-Directed Drawing Algorithms)
Yannis Tzitzikas, Jean-Luc Hainaut 144

A Multilevel Dictionary for Model Management
Paolo Atzeni, Paolo Cappellari, Philip A. Bernstein 160

A MOF-Compliant Approach to Software Quality Modeling
Xavier Burgués, Xavier Franch, Josep M. Ribó 176

Requirements and Software Engineering

Conceptual Modeling Based on Transformation Linguistic Patterns
Isabel Díaz, Juan Sánchez, Alfredo Matteo 192

Applying Modular Method Engineering to Validate and Extend the
RESCUE Requirements Process
Jolita Ralyté, Neil Maiden, Colette Rolland, Rébecca Deneckère 209

Security Patterns Meet Agent Oriented Software Engineering:
A Complementary Solution for Developing Secure Information
Systems
Haralambos Mouratidis, Michael Weiss, Paolo Giorgini 225

Ontologies

Kuaba Ontology: Design Rationale Representation and Reuse in
Model-Based Designs
Adriana Pereira de Medeiros, Daniel Schwabe, Bruno Feijó 241

Ontology Creation: Extraction of Domain Knowledge from Web
Documents
Veda C. Storey, Roger Chiang, G. Lily Chen 256

Choosing Appropriate Method Guidelines for Web-Ontology Building
*Sari Hakkarainen, Darijus Strasunskas, Lillian Hella,
Stine Tuxen* 270

Web Services and Navigational Models

Conceptual Model Based Semantic Web Services

- Muhammed Al-Muhammed, David W. Embley,
Stephen W. Liddle* 288

Automatically Grounding Semantically-Enriched Conceptual Models to Concrete Web Services

- Eran Toch, Avigdor Gal, Dov Dori* 304

Transforming Web Requirements into Navigational Models: AN MDA Based Approach

- Pedro Valderas, Joan Fons, Vicente Pelechano* 320

Aspects of Workflow Modeling

Accelerating Workflows with Fixed Date Constraints

- Martin Bierbaumer, Johann Eder, Horst Pichler* 337

Workflow Data Patterns: Identification, Representation and Tool Support

- Nick Russell, Arthur H.M. ter Hofstede, David Edmond,
Wil M.P. van der Aalst* 353

Actor-Oriented Design of Scientific Workflows

- Shawn Bowers, Bertram Ludäscher* 369

Blueprints and Measures for ETL Workflows

- Panos Vassiliadis, Alkis Simitsis, Manolis Terrovitis,
Spiros Skiadopoulos* 385

Queries and OLAP Summaries

Vague Sets or Intuitionistic Fuzzy Sets for Handling Vague Data: Which One Is Better?

- An Lu, Wilfred Ng* 401

A Semantic Approach to Query Rewriting for Integrated XML Data

- Xia Yang, Mong Li Lee, Tok Wang Ling, Gillian Dobbie* 417

A Taxonomy of Inaccurate Summaries and Their Management in OLAP Systems

- John Horner, Il-Yeol Song* 433

Temporal and Spatial Modeling

XCM: Conceptual Modeling for Dynamic Domains
 Luis González Jiménez 449

Precise Modeling and Verification of Topological Integrity Constraints
in Spatial Databases: From an Expressive Power Study to Code
Generation Principles
 Magali Duboisset, François Pinet, Myoung-Ah Kang,
 Michel Schneider 465

Topological Relationships Between Complex Lines and Complex Regions
 Markus Schneider, Thomas Behr 483

Author Index 497