

Conceptual Modeling - ER 2002

21st International Conference on Conceptual Modeling Tampere, Finland, October 7-11, 2002 Proceedings

Bearbeitet von
Stefano Spaccapietra, Salvatore March, Yahiko Kambayashi

1. Auflage 2002. Taschenbuch. xx, 484 S. Paperback
ISBN 978 3 540 44277 6
Format (B x L): 15,5 x 23,5 cm
Gewicht: 754 g

Wirtschaft > Betriebswirtschaft: Theorie & Allgemeines > Wirtschaftsinformatik, SAP,
IT-Management

Zu Leseprobe

schnell und portofrei erhältlich bei

The logo for beck-shop.de features the text 'beck-shop.de' in a bold, red, sans-serif font. Above the 'i' in 'shop' are three red dots of increasing size. Below the main text, 'DIE FACHBUCHHANDLUNG' is written in a smaller, red, all-caps, sans-serif font.

beck-shop.de
DIE FACHBUCHHANDLUNG

Die Online-Fachbuchhandlung beck-shop.de ist spezialisiert auf Fachbücher, insbesondere Recht, Steuern und Wirtschaft. Im Sortiment finden Sie alle Medien (Bücher, Zeitschriften, CDs, eBooks, etc.) aller Verlage. Ergänzt wird das Programm durch Services wie Neuerscheinungsdienst oder Zusammenstellungen von Büchern zu Sonderpreisen. Der Shop führt mehr als 8 Millionen Produkte.

Table of Contents

Keynote Addresses

Conceptual Modelling and Ontology: Possibilities and Pitfalls	1
<i>Ron Weber</i>	
An Ontology for m-Business Models	3
<i>Yves Pigneur</i>	

Pre-Conference Tutorials

Modeling Dynamics of Business Processes: Key for Building Next Generation of Business Information Systems	7
<i>Ilia Bider and Paul Johannesson</i>	
Ontology-Driven Conceptual Modelling	10
<i>Nicola Guarino and Luc Schneider</i>	

Conference Tutorials

Advanced OO Modelling: Metamodels and Notations for the New Millennium	11
<i>Brian Henderson-Sellers</i>	
Ontology-Driven Conceptual Modelling: Advanced Concepts	12
<i>Nicola Guarino and Luc Schneider</i>	
Workflow Management in Electronic Commerce	13
<i>Paul Grefen</i>	

Panel

Do We Need an Ontology of Ontologies?	15
<i>Heinrich C. Mayr</i>	

Demonstrations and Posters

Development of a Conceptual Data Model for Digital Spatio-Temporal Geographical Information, with Application to Several Themes and GIS	16
<i>Nico Van de Weghe</i>	

XVIII Table of Contents

Using Semantic Rules Database
to Dynamically Set up the ICSpace Virtual Building 17
Ozifrankly Silva, Tatiana Tavares, Márcia Lucena, and Guido Souza Filho

On the Transformation
of Object Oriented Conceptual Models to Logical Theories:
From EROOS to ID-Logic 18
Pieter Bekaert and Bert Van Nuffelen

Session 1: Semantics and Meta-models

Component Construction of Database Schemes 20
Bernhard Thalheim

Multirelational Semantics for Extended Entity-Relationship Schemata
with Applications 35
Sebastiano Vigna

A Meta-model for e-Contract Template
Variable Dependencies Facilitating e-Negotiation 50
S.C. Cheung, Patrick C.K. Hung, and Dickson K.W. Chiu

Session 2: Principles of Ontology

On the General Ontological Foundations of Conceptual Modeling 65
Giancarlo Guizzardi, Heinrich Herre, and Gerd Wagner

Finding and Characterizing Changes in Ontologies 79
Michel Klein, Atanas Kiryakov, Damyan Ognyanov, and Dieter Fensel

Superimposed Schematics: Introducing E-R Structure
for *In-Situ* Information Selections 90
Shawn Bowers, Lois Delcambre, and David Maier

Session 3: Web Environments

Web Extensions to UML: Using the MVC Triad 105
David Lowe, Brian Henderson-Sellers, and Alice Gu

Wiccap Data Model: Mapping Physical Websites to Logical Views 120
Zehua Liu, Feifei Li, and Wee Keong Ng

Representing and Querying Semistructured Web Data
Using Nested Tables with Structural Variants 135
*Altigran S. da Silva, Irna M. R. Evangelista Filha, Alberto H. F. Laender,
and David W. Embley*

Session 4: Theory and Methods

On the Transformation of Object-Oriented Conceptual Models to Logical Theories	152
<i>Pieter Bekaert, Bert Van Nuffelen, Maurice Bruynooghe, David Gilis, and Marc Denecker</i>	
Reasoning with Goal Models	167
<i>Paolo Giorgini, John Mylopoulos, Eleonora Nicchiarelli, and Roberto Sebastiani</i>	
Registering Scientific Information Sources for Semantic Mediation	182
<i>Amarnath Gupta, Bertram Ludäscher, and Maryann E. Martone</i>	

Session 5: Methods and Tools

Multidimensional Modeling with UML Package Diagrams	199
<i>Sergio Luján-Mora, Juan Trujillo, and Il-Yeol Song</i>	
Comparative Evaluation of Large Data Model Representation Methods: The Analyst's Perspective	214
<i>Daniel L. Moody</i>	
Extracting Conceptual Relationships from Specialized Documents	232
<i>Bowen Hui and Eric Yu</i>	

Session 6: Applications for Practice

A Transactional Model for Data Warehouse Maintenance	247
<i>Jun Chen, Songting Chen, and Elke A. Rundensteiner</i>	
The Account Data Model	263
<i>Andrew Pletch, Chih-yang Tsai, and Charles Matula</i>	
A Semantic Model for Hypertext Data Caching	276
<i>Kai Cheng and Yahiko Kambayashi</i>	

Session 7: Applying Ontology in Conceptual Modeling

Understanding and Simulating Narratives in the Context of Information Systems	291
<i>Angelo E. M. Ciarlini and Antonio L. Furtado</i>	
Global Schema Generation Using Formal Ontologies	307
<i>Farshad Hakimpour and Andreas Geppert</i>	
Automatically Extracting Ontologically Specified Data from HTML Tables of Unknown Structure	322
<i>David W. Embley, Cui Tao, and Stephen W. Liddle</i>	

Session 8: System and Data Integration

On the Expressive Power of Data Integration Systems 338
*Andrea Calì, Diego Calvanese, Giuseppe De Giacomo,
and Maurizio Lenzerini*

Property-Based Semantic Reconciliation
of Heterogeneous Information Sources 351
Jeffrey Parsons and Yair Wand

Conceptual Integration of Multiple Partial Geometric Models 365
Simone Santini and Amarnath Gupta

Session 9: Quality Assessment

Evaluating the Quality of Process Models: Empirical Testing
of a Quality Framework 380
Daniel L. Moody, Guttorm Sindre, Terje Brasethvik, and Arne Sølberg

Data Quality in Web Information Systems 397
Barbara Pernici and Monica Scannapieco

Session 10: XML & Object Systems

Conceptual Modeling Quality –
From EER to UML Schemas Evaluation 414
Samira Si-Said Cherfi, Jacky Akoka, and Isabelle Comyn-Wattiau

Conceptual Modeling for Customized XML Schemas 429
Ramez Elmasri, Yu-Chi Wu, Babak Hojabri, Charley Li, and Jack Fu

A Flexible Cost Model for Abstract Object-Oriented Database Schemas ... 444
Joachim Biskup and Ralf Menzel

Designing Valid XML Views 463
Ya Bing Chen, Tok Wang Ling, and Mong Li Lee

Author Index 479