

Table of Contents

Invited Talks

Agent Oriented Software Development	1
<i>John Mylopoulos</i>	
Model Driven Architecture: The Evolution of Object-Oriented Systems?	2
<i>Richard Mark Soley</i>	
Once Upon a Time a DTD Evolved into Another DTD	3
<i>Lina Al-Jadir, Fatmé El-Moukaddem</i>	

Evolution of OOIS

Evolution of Collective Object Behavior in Presence of Simultaneous Client-Specific Views	18
<i>Bo Nørregaard Jørgensen, Eddy Truyen</i>	
Evolving Derived Entity Types in Conceptual Schemas in the UML	33
<i>Cristina Gómez, Antoni Olivé</i>	
Object-Oriented Graceful Evolution Monitors	46
<i>Vic Page, Maurice Dixon, Peter Bielkowicz</i>	
Stepwise and Rigorous Development of Evolving Concurrent Information Systems: From Semi-formal Objects to Sound Evolving Components	60
<i>Nasreddine Aoumeur, Gunter Saake</i>	
Compliance Gaps: A Requirements Elicitation Approach in the Context of System Evolution	71
<i>Camille Salinesi, Anne Etien</i>	
UML-Based Metamodeling for Information System Engineering and Evolution	83
<i>Marie-Noëlle Terrasse, Marinette Savonnet, George Becker, Eric Leclercq</i>	

OOIS Frameworks

Building a Wizard for Framework Instantiation Based on a Pattern Language	95
<i>Rosana T.V. Braga, Paulo Cesar Masiero</i>	

Event-Based Software Architectures	107
<i>Monique Snoeck, Wilfried Lemahieu, Cindy Michiels, Guido Dedene</i>	

Aided Domain Frameworks Construction and Evolution	118
<i>Félix Prieto, Yania Crespo, José M. Marqués, Miguel A. Laguna</i>	

Patterns and Components

A Contract-Based Approach of Resource Management in Information Systems	130
<i>Nicolas Le Sommer</i>	

Representing User-Interface Patterns in UML	142
<i>Nuno Jardim Nunes</i>	

Accommodating Changing Requirements with EJB	152
<i>Bart Du Bois, Serge Demeyer</i>	

A Framework for Supporting Views in Component Oriented Information Systems	164
<i>O. Caron, B. Carré, A. Muller, G. Vanwormhoudt</i>	

Enabling Design Evolution in Software through Pattern Oriented Approach	179
<i>D. Janaki Ram, M.S. Rajasree</i>	

Extracting Domain-Specific and Domain-Neutral Patterns Using Software Stability Concepts	191
<i>Haitham Hamza, Ahmed Mahdy, Mohamed E. Fayad, Marshall Cline</i>	

Object Oriented Data Bases

Designing Storage Structures for Management of Materialised Methods in Object-Oriented Databases	202
<i>Juliusz Jezierski, Mariusz Masewicz, Robert Wrembel, Bogdan Czejdo</i>	

Overcoming the Complexity of Object-Oriented DBMS Metadata Management	214
<i>Piotr Habela, Kazimierz Subieta</i>	

Primitive Operations for Schema Evolution in ODMG Databases	226
<i>Cecilia Delgado, José Samos, Manuel Torres</i>	

XML and Web

Models and Guidelines for the Design of Progressive Access in Web-Based Information Systems	238
<i>Marlène Villanova-Oliver, Jérôme Gensel, Hervé Martin</i>	

Mediaviews: A Layered View Mechanism for Integrating Multimedia Data	250
<i>Hyon Hee Kim and Seung Soo Park</i>	

An Efficient Object Hierarchy Construction for Viewing Internet Products on Mobile Phones	262
<i>Sangho Ha, Jungik Choi, In-Gook Chun</i>	

Evolution

A Conceptualization of OO Evolution	274
<i>Dalila Tamzalit, Mourad Oussalah</i>	

Workflow Evolution: Generation of Hybrid Flows	279
<i>Johann Eder, Michael Saringer</i>	

Supporting Database Evolution: Using Ontologies Matching	284
<i>Nadira Lammari, Jacky Akoka, Isabelle Comyn-Wattiau</i>	

Designing Evolvable Location Models for Ubiquitous Applications	289
<i>Silvia Gordillo, Javier Bazzocco, Gustavo Rossi, Robert Laurini</i>	

Refactoring the Scenario Specification: A Message Sequence Chart Approach	294
<i>Shengbing Ren, Kexing Rui, Greg Butler</i>	

OO Design and Architecture

Model Driven Architecture for Agile Web Information System Engineering	299
<i>William El Kaim, Philippe Studer, Pierre-Alain Muller</i>	

DSL-DIA – An Environment for Domain-Specific Languages for Database-Intensive Applications	304
<i>Jernej Kouse, Theo Härder</i>	

An Object-Oriented Framework for Managing Cooperating Legacy Databases	311
<i>H. Balsters, E.O de Brock</i>	

Object-Oriented Component Identification Method Using the Affinity Analysis Technique	317
<i>Yoon-Jung Jang, Eun-Young Kim, Kyung-Whan Lee</i>	

Distributed Information System Design Based on Integrity Constraints Optimization: The FKDO Algorithm	322
<i>Snene Mehdi, Pardellas Jorge</i>	

Object-Oriented Design of RTI Using Design Patterns	329
<i>Tae-Dong Lee, Jung-Hun Jin, Chang-Sung Jeong</i>	

Modelling of IS

Functional Size Measurement of Multi-layer Object-Oriented Conceptual Models	334
<i>Geert Poels</i>	
RISA: Object-Oriented Modeling and Simulation of Real-Time Distributed System for Air Defense	346
<i>Tae-Dong Lee, Bom-Jae Jeon, Chang-Sung Jeong, Sang-Yong Choi</i>	
Software Process and Reuse: A Required Unification	356
<i>Miguel A. Laguna, Bruno González-Baixauli, Oscar López, Francisco J. García</i>	
Distributed Systems Development: Can We Enhance Evolution by Using AspectJ?	368
<i>Cormac Driver, Siobhán Clarke</i>	
Conciliating User Interface and Business Domain Analysis and Design . . .	383
<i>Isabelle Mirbel, Violaine de Rivières</i>	
Atomic Use Case: A Concept for Precise Modelling of Object-Oriented Information Systems	400
<i>Kinh Nguyen, Tharam Dillon</i>	
An Approach of Model Transformation Based on Attribute Grammars . . .	412
<i>May Dehayni, Louis Féraud</i>	
Author Index	425

Object-Oriented Information Systems

9th International Conference, OOIS 2003, Geneva,
Switzerland, September 2-5, 2003, Proceedings

Konstantas, D.; Leonard, M.; Pigneur, Y.; Patel, S. (Eds.)

2003, XII, 432 p., Softcover

ISBN: 978-3-540-40860-4