

Contents

Evolution

Consistent Structural Updates for Object Database Design <i>P. Poncelet, L. Lakhal</i>	1
A Procedural Approach to Schema Evolution <i>C.A. Ewald, M.E. Orlowska</i>	22
An Active Meta-Model for Knowledge Evolution in an Object-Oriented Database <i>Z. Bellahsene</i>	39

Schema Integration

Schema Integration in Object-Oriented Databases <i>C. Thieme, A. Siebes</i>	54
Schema Transformations as an Aid in View Integration <i>P. Johannesson</i>	71
Towards a Model for Persistent Data Integration <i>O. Perrin, N. Boudjlida</i>	93

Validation

Using Explanations to Improve the Validation of Executable Models <i>J.A. Gulla, G. Willumsen</i>	118
Visualisation for Validation <i>V. Lalioti, P. Loucopoulos</i>	143
Validating Conceptual Models by Transformational Prototyping <i>O.I. Lindland, J. Krogstie</i>	165

Experiences

Partial Evaluation and Symbolic Computation for the Understanding of Fortran Programs <i>S. Blazy, P. Facon</i>	184
A Multi-Model Approach for Deriving Requirements Specifications for a Mega-Project <i>C.B. Piprani, R.B. Morris</i>	199

The BOS-Method Architecture: An Improved Structured Approach for the Development of Distributed Information Systems	221
<i>M. Breu, G. Leonardi, B. Percie du Sert, L. Barengo, M. Pfeiffer, J.-C. Utter</i>	

Requirements Engineering

Dealing with Security Requirements During the Development of Information Systems	234
<i>L. Chung</i>	
Eliciting and Formalising Requirements for C.I.M. Information Systems	252
<i>E. Dubois, P. Du Bois, M. Petit</i>	
The Three Dimensions of Requirements Engineering	275
<i>K. Pohl</i>	

Conceptual Modeling I

Object-Oriented Analysis in Practice	293
<i>J. Brunet, C. Cauvet, D. Meddahi, F. Semmak</i>	
Concepts for Real-World Modelling	309
<i>A.L. Opdahl, G. Sindre</i>	
An Abstraction-Based Rule Approach to Large-Scale Information Systems Development	328
<i>A.H. Seltveit</i>	

Conceptual Modeling II

The Semantics of Parts Versus Aggregates in Data/Knowledge Modelling	352
<i>R. Motschnig-Pitrik</i>	
Object Interaction in Object-Oriented Deductive Conceptual Models	374
<i>C. Quer, A. Olivé</i>	
An Object-Oriented Temporal Model	397
<i>N. Edelweiss, J.P.M de Oliveira, B. Pernici</i>	

Schema Transformation

From Object-Oriented Design Towards Object-Oriented Programming	416
<i>N. Kraïem, F. Gargouri, F. Boufarès</i>	
Automated Mapping of Conceptual Schemas to Relational Schemas	432
<i>J.I. McCormack, T.A. Halpin, P.R. Ritson</i>	

Normalization of Object-Oriented Conceptual Schemes <i>E. Andonoff</i>	449
---	-----

Reuse and Reliability

Towards Reliable Information Systems: The KorSo Approach <i>N. Vlachantonis, R. Herzig, M. Gogolla, G. Denker, S. Conrad, H.-D. Ehrich</i>	463
Similarity for Analogical Software Reuse: A Conceptual Modelling Approach <i>G. Spanoudakis, P. Constantopoulos</i>	483
Temporal Aspects in Reuse of Requirement Specifications <i>V. De Antonellis, L. Vandoni</i>	504

Animation and Verification

Computer-Aided Verification of Software Process Model Properties <i>A. Bröckers, V. Gruhn</i>	521
An Animation Facility to Simulate an Information and Communication System <i>R. Croshere, R. Van de Riet, A. Blom</i>	547
Design of User-Driven Interfaces Using Petri Nets and Objects <i>P.A. Palanque, R. Bastide, L. Dourte, C. Sibertin-Blanc</i>	569

Development Environments

Perspectives on Software Development Environments <i>V. Prevelakis, D. Tsichritzis</i>	586
An Object-Oriented Database Approach for Supporting Hypertext <i>B. Wang, P. Hitchcock, T. Holden</i>	601
Estimation Process of Performance Constraints During the Design of Real-Time and Embedded Systems <i>R. Puigjaner, A. Benzekri, S. Ayache et al.</i>	629

Panel Statement

Will IS Development Methods be Completely Incorporated in CASE Tools in the Future? <i>M. Breu, S. Brinkkemper, M. Franckson, H. Habrias, T. Halpin, P. Loucopoulos</i>	649
--	-----