

Contents

Keynote Speech

- Process Improvement: The Way Forward 1
M. M. Lehman

Behaviour Modelling

- A Method for Explaining the Behaviour of Conceptual Models 12
A. Olivé, M.-R. Sancho
- COLOR-X: Linguistically-based Event Modeling: A General Approach to 26
Dynamic Modeling
J. F. M. Burg, R. P. van de Riet
- Supporting Transaction Design in Conceptual Modelling of Information 40
Systems
J. A. Pastor-Collado, A. Olivé

Requirements Engineering

- Facet Models for Problem Analysis 54
A. L. Opdahl, G. Sindre
- A Framework for Requirements Analysis Using Automated Reasoning 68
D. Duffy, C. MacNish, J. McDermid, P. Morris
- Towards a Deeper Understanding of Quality in Requirements Engineering 82
J. Krogstie, O. I. Lindland, G. Sindre

OO Concepts and Applications

- Modelling inheritance, composition and relationship links between objects, 96
object versions and class versions
E. Andonoff, G. Hubert, A. Le Parc, G. Zurfluh
- Hypertext Version Management in an Actor-based Framework 112
A. Dattolo, V. Loia

Work and Communication Modelling

- Modelling Ways-of-Working 126
V. Plihon, C. Rolland
- Modelling Communication between Cooperative Systems 140
F. Dignum, H. Weigand

Invited Speech

- Challenges in Applying Objects Large Systems 154
J.-M. Aalto

Metamodelling

Feasibility of Flexible Information Modelling Support <i>T. F. Verhoef, A.H.M. ter Hofstede</i>	168
A Meta-Model for Business Rules in Systems Analysis <i>H. Herbst</i>	186
Metrics in Method Engineering <i>M. Rossi, S. Brinkkemper</i>	200

User Interface Issues

InfoHarness: Use of Automatically Generated Metadata for Search and Retrieval of Heterogeneous Information <i>L. Shklar, A. Sheth, V. Kashyap, K. Shah</i>	217
Designing the User Interface on Top of a Conceptual Model <i>M. Pettersson</i>	231
Graphical Representation and Manipulation of Complex Structures Based on a Formal Model <i>G. Viehstaedt, M. Minas</i>	243

CASE Integration

Providing Integrated Support for Multiple Development Notations <i>J. C. Grundy, J. R. Venable</i>	255
A Federated Approach to Tool Integration <i>M. Bounab, C. Godart</i>	269

Reuse

Domain Knowledge Reuse During Requirements Engineering <i>M. D. Gibson, K. Conheaney</i>	283
Strategies and Techniques: Reusable Artifacts for the Construction of Database Management Systems <i>A. Geppert, K. R. Dittrich</i>	297

Keynote Speech

The Impact of New Information Architectures on Industry and Government Transformation <i>G. Bracchi</i>	311
--	-----

Conceptual Modelling Issues

- Standard Transformations for the Normalization of ER Schemata 313
O. Rauh, E. Stickel
- The Rapid Application and Database Development (RADD) Workbench -- 327
 A Comfortable Database Design Tool
M. Albrecht, E. Buchholz, A. Düsterhöft, M. Altus, B. Thalheim
- A Psychological Study on the Use of Relationship Concept -- 341
 Some Preliminary Findings
K. Siau, Y. Wand, I. Benbasat

Software Development Issues

- Alignment of Software Quality and Service Quality 355
P. Parmakson
- A Guide for Software Maintenance Evaluation: Experience Report 366
V. Narat, A. Vila
- Natural Naming in Software Development: Feedback from Practitioners 375
K. Laitinen