

Antoni Olivé Joan Antoni Pastor (Eds.)

Advanced Information Systems Engineering

9th International Conference, CAiSE'97
Barcelona, Catalonia, Spain, June 16-20, 1997
Proceedings



Springer

Table of Contents

Invited Speech

- The Story of the IDEA Methodology 1
Stefano Ceri, Piero Fraternali

Requirements Engineering I

- Integrating Semi-formal and Formal Requirements 19
Roel Wieringa, Eric Dubois, Sander Huyts
- Stimuli and Business Policies as Modelling Constructs: Their Definition and Validation Through the Event Calculus 33
Oscar Diaz, Norman W. Paton
- Using Scenarios to Validate Requirements in a Plausibility-Centred Approach 47
Despina Filippidou, Pericles Loucopoulos

Information Systems Design

- Behaviour Specification in Database Interoperation 61
Mark W.W. Vermeer, Peter M.G. Apers
- Implementing Semantic-Based Decomposition of Transactions 75
Sushil Jajodia, Indrakshi Ray, Paul Ammann
- Negotiation Transactions: An Approach to Increase the Automation of Workflows 89
Juha Puustjärvi

Requirements Engineering II

- Towards Method-Driven Trace Capture 103
Klaus Pohl, Ralf Dönges, Matthias Jarke
- A Multi-perspective Framework for the Analysis of Legacy Information Systems 117
Silvana Castano, Valeria De Antonellis
- Facilitating Analysis and Diagnosis in Organisations 131
Luis Carriço, Nuno Guimarães

Methods, Environments and Tools I

OO-METHOD: An OO Software Production Environment Combining Conventional and Formal Methods <i>Oscar Pastor, Emilio Insfrán, Vicente Pelechano, José Romero, José Merseguer</i>	145
Application of a Generator-Based Software Development Method Supporting Model Reuse <i>Joachim Altmeyer, Jan Peter Riegel, Bernd Schuermann, Martin Schuetze, Gerhard Zimmermann</i>	159
A Toolkit for Reuse in Conceptual Modelling <i>Raul Ruggia, Ana Paula Ambrosio</i>	173

Methods, Environments and Tools II

Performance Engineering of Human and Computerised Workflows <i>Gunnar Brataas, Peter H. Hughes, Arne Sølvberg</i>	187
Meta-CASE in Practice: A Case for KOGGE <i>Jürgen Ebert, Roger Süttenbach, Ingar Uhe</i>	203
Augmenting CASE Tools with Hypertext: Desired Functionality and Implementation Issues <i>Janne Kaipala</i>	217

Conceptual Modelling I

Interval-Based Representation of Spatio-Temporal Concepts <i>Toshimi Tagashira, Toshiyuki Amagasa, Masayoshi Aritsugi, Yoshinari Kanamori</i>	231
Temporal Object Role Modelling <i>Andreas Steiner, Moira C. Norrie</i>	245
Complex Object Versioning <i>Chabane Oussalah, Christelle Urtado</i>	259

Distributed Information Systems I

A Methodology for the Design of Distributed Web Systems <i>Guido Poncia, Barbara Pernici</i>	273
Digital Neighbourhoods: Partitioning the Web for Information Indexing and Searching <i>Pedro Falcão Gonçalves, Ana Carolina Salgado, Silvio Lemos Meira</i>	289
Intranet Facilitated Knowledge Management: A Theory and Tool for Defining Situational Methods <i>Marnix Klooster, Sjaak Brinkkemper, Frank Harmsen, Gerard Wijers</i>	303

Conceptual Modelling II

A Conceptual Approach to Meta-Modelling <i>E. Dominguez, M.A. Zapata, J. Rubio</i>	319
Preserving Behaviour: Why and How <i>Fabienne Cathala, Pascal Poncelet</i>	333
Modeling Behavior of Geographic Objects: An Experience with the Object Modeling Technique <i>Nectaria Tryfona, Dieter Pfoser, Thanasis Hadzilacos</i>	347

Distributed Information Systems II

Design of Distributed Applications Based on the OSI Model <i>Peter McBrien</i>	361
DELOS - A Repository Based Environment for Developing Network Centric Applications <i>P. Klimathianakis, Pericles Loucopoulos</i>	375
TDE: Supporting Geographically Distributed Software Design with Shared, Collaborative Workspaces <i>Antero Taivalsaari, Sami Vaaraniemi</i>	389

Workflow Systems

Semantics of Reactive Components in Event-Driven Workflow Execution <i>Dimitrios Tombros, Andreas Geppert, Klaus R. Dittrich</i>	409
Workflow Transparency <i>Peter Bichler, Günter Preuner, Michael Schrefl</i>	423
Towards Real-Scale Business Transaction Workflow Modelling <i>A.P. Barros, A.H.M. ter Hofstede, H.A. Proper</i>	437

Author Index

451