# Table of Contents

Fifth IEEE International Enterprise Distributed Object Computing Conference

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>vii</td>
</tr>
<tr>
<td>Organisers</td>
<td>viii</td>
</tr>
</tbody>
</table>

## Distributed Applications and Services

- An Information Infrastructure and E-Services for Supporting Internet-Based Scalable E-Business Enterprises
  - S. Su, H. Lam, M. Lee, S. Bai, and M. Shen
- A Web-Based Material Requirements Planning Integrated Application
  - L. Qiang, T. Khong, W. San, W. Jianguo, and C. Choy
- A CORBA-Based Architecture for Service Change Notification
  - T. Senivongse and P. Suriyentrakorn
- A Network-Based Platform for Multi-Application Smart Cards
  - R. Toji, Y. Wada, S. Hirata, and K. Suzuki

## Enterprise Modelling

- Establishing Enterprise Communities
  - C. Serban, X. Ao, and N. Minsky
- Towards Formal Modeling of e-Contracts
  - O. Marjanovic and Z. Milosevic
- A Framework for Modeling Strategy, Business Processes and Information Systems
  - A. Vasconcelos, A. Caetano, J. Neves, P. Sinogas, R. Mendes, and J. Tribolet

## Workflows, Transactions and Coordination

- Flexible Workflow Management in the OPENflow System
  - J. Halliday, S. Shrivastava, and S. Wheater
- Addressing Scalability Issues Using the CLF Middleware
  - D. Arregui, F. Pacull, and J. Willamowski
- Dependency-Spheres: A Global Transaction Context for Distributed Objects and Messages

## Systems Development and Testing

- Web-Application Development Using the Model/View/Controller Design Pattern
  - A. Leff and J. Rayfield
- A Scaleable Approach to Automated Service Dependency Modeling in Heterogeneous Environments
  - C. Ensel
- Distributed End-to-End Testing Management
  - X. Bai, W. Tsai, R. Paul, T. Shen, and B. Li
- A Test Framework for CORBA Interoperability
  - M. Li, A. Puder, and I. Schieferdecker

## Work in Progress and New Perspectives

- A Method to Reduce Risks in Building Distributed Enterprise Systems
  - G. Wang and G. Cone
- Mapping Service Components to EJB Business Objects
  - G. Piccinelli, W. Emmerich, and A. Finkelstein
Layered Queuing Models for Enterprise JavaBean Applications .............................................. 174
T.-K. Liu, S. Kumaran, and Z. Luo

Process-Centered Model Engineering......................................................................................... 179
E. Breton and J. Bézivin

Business Component Identification – A Formal Approach ......................................................... 183
H. Jain, N. Chalimeda, and N. Ivaturi

Applying ODP Enterprise Viewpoint Language to Hospital Information System......................... 188
A. Tanaka, Y. Nagase, Y. Kiryu, and K. Nakai

Dynamic Policy Model for Large Evolving Enterprises................................................................. 193
N. Dunlop, J. Indulska, and K. Raymond

Systems Modelling and Patterns

Conceptual Modeling of Complex Systems Using an RM-ODP Based Ontology ......................... 200
A. Wegmann and A. Naumenko

Developing and Applying Component-Based Model-Driven Architectures in KobrA............... 212
C. Atkinson, B. Paech, J. Reinhold, and T. Sander

Architectural Integration Styles for Large-Scale Enterprise Software Systems.............................. 224
J. Andersson and P. Johnson

Tool Support for Development Using Patterns ............................................................................ 237
S. Neal and P. Linington

Using the Meta-Object Facility

Generating Human-Usable Textual Notations for Information Models........................................ 250
J. Steel and K. Raymond

Manufacturing Software Components from Object-Oriented Design Models.............................. 262
E. Holz, O. Kath, and M. Born

A Cooperative Workflow Management System with the Meta-Object Facility.......................... 273
X. Le Pallec and T. Vantroys

Author Index........................................................................................................................................... 281