# Table of Contents

## Workflows I

A Data Warehouse for Workflow Logs .............................. 1  
*J. Eder, G. Olivatto, W. Gruber*

Workflow and Knowledge Management: Approaching an Integration ............. 16  
*J. Lai, Y. Fan*

Linear Temporal Inference of Workflow Management Systems Based on Timed Petri Net Models ......................................................... 30  
*Y. Qu, C. Lin, J. Wang*

## Workflows II

Discovering Workflow Performance Models from Timed Logs ......................... 45  
*W.M.P. van der Aalst, B.F. van Dongen*

Performance Equivalent Analysis of Workflow Systems Based on Stochastic Petri Net Models ................................................................. 64  
*C. Lin, Y. Qu, F. Ren, D.C. Marinescu*

An Agent Enhanced Framework to Support Pre-dispatching of Tasks in Workflow Management Systems .......................................................... 80  
*J. Liu, S. Zhang, J. Cao, J. Hu*

## Ontologies

TEMPPLET: A New Method for Domain-Specific Ontology Design .................. 90  
*Y. Dong, M. Li*

An Environment for Multi-domain Ontology Development and Knowledge Acquisition ..................................................................................... 104  
*J. Si, C. Cao, H. Wang, F. Gu, Q. Feng, C. Zhang, Q. Zeng, W. Tian, Y. Zheng*

Applying Information Retrieval Technology to Incremental Knowledge Management ......................................................................................... 117  
*Z. Yang, Y. Liu, S. Li*

## Semantic Web

Visualizing a Dynamic Knowledge Map Using a Semantic Web Technology .... 130  
*H.-G. Kim, C. Fillies, B. Smith, D. Wikarski*
Table of Contents

Indexing and Retrieval of XML-Encoded Structured Documents in Dynamic Environment. ................................................................. 141
  S. Kim, J. Lee, H. Lim

Knowledge Management: System Architectures, Main Functions, and Implementing Techniques................................................................. 155
  J. Ma, M. Hemmje

Enterprise Application Integration

A Dynamic Matching and Binding Mechanism for Business Service Integration................................................................................ 168
  F. Wang, Z. Zhao, Y. Han

A Uniform Model for Authorization and Access Control in Enterprise Information Platform. ................................................................. 180
  D. Li, S. Hu, S. Bai

Constraints-Preserving Mapping Algorithm from XML-Schema to Relational Schema. ................................................................. 193
  H. Sun, S. Zhang, J. Zhou, J. Wang

Mobile Agents

Study on SOAP-Based Mobile Agent Techniques. ......................................................... 208
  D. Wang, G. Yu, B. Song, D. Shen, G. Wang

Securing Agent Based Architectures. ...................................................................... 220
  M. Maxim, A. Venugopal

Service and Network Management Middleware for Cooperative Information Systems through Policies and Mobile Agents............................. 232
  K. Yang, A. Galis, T. Mota, X. Guo, C. Todd

Enterprise Modeling

Research on Enterprise Modeling of Agile Manufacturing .................................. 247
  H. Xu, L. Zhang, B. Zhou

HCM – A Model Describing Cooperation of Virtual Enterprises ...................... 257
  Y. Zhang, M. Shi

A Description for Service Supporting Cooperations............................................. 267
  M. Wiedeler
Distributed Systems Analysis

Analysis of an Election Problem for CSCW in Asynchronous Distributed Systems
S.-H. Park

A Linear-Order Based Access Method for Efficient Network Computations
S.-H. Woo, S-B Yang

A Petri-Net Model for Session Services
J. Shen, Y. Yang, J. Luo

Software Engineering

Software Processes for Electronic Commerce Portal Systems
V. Gruhn, L. Schoepe

Architecture Support for System-of-Systems Evolution
J. Han, P. Chen

Expressing Graphical User’s Input for Test Specifications
J. Chen

Architectures

An Intelligent Decision Support System in Construction Management by Data Warehousing Technique
Y. Cao, K. Chau, M. Anson, J. Zhang

Distributed Heterogeneous Inspecting System and Its Implementation
L. Huang, Z. Wu

Architecture for Distributed Embedded Systems Based on Workflow and Distributed Resource Management
Y. Lin, X. Zhou, X. Shi

Knowledge Management and the Control of Duplication
D. Cook, L. Mellor, G. Frost, R. Creutzburg

Transactions

An Execution and Transaction Model for Active, Rule-Based Component Integration Middleware
Y. Jin, S. Urban, A. Sundermier, S. Dietrich
Implementation of CovaTM. ................................................................. 418
J. Jiang, M. Shi

Resource-Based Scripting to Stitch Distributed Components. ............... 429
J.-M. Andreoli, D. Arregui, F. Pacull, J. Willamowski

Coordination I

Multi-agent Coordination Mechanism in Distributed Environment .......... 444
M. Xu, Y. Zhuang

Coordination among Multi-agents Using Process Calculus and ECA Rule. .. 456
Y. Wei, S. Zhang, J. Cao

An RBAC-Based Policy Enforcement Coordination Model in Internet
Environment. ............................................................................................. 466
Y. Zhang, J. You

Coordination II

A CORBA-Based Negotiation Strategy in E-Commerce. ......................... 478
Y. Zhao, G. Wang

Negotiation Framework for the Next Generation Mobile Middleware Service
Environment. ............................................................................................ 487
M. Sihvonen, J. Holappa

Groupware I

An Internet-Based Conference System for Real-Time Distributed Design
Evaluation. .................................................................................................. 499
K. Dai, Y. Wang, X. Xu

Intention Preservation by Multi-versioning in Distributed Real-Time Group
Editors. ........................................................................................................ 510
L. Xue, M. Orgun, K. Zhang

Supporting Group Awareness in Web-Based Learning Environments .......... 525
B. Hu, A. Kuhlenkamp, R. Reinema

Groupware II

Raison d’Etre Object: A Cyber-Hearth That Catalyzes Face-to-Face Informal
Communication. ....................................................................................... 537
T. Matsubara, K. Sugiyama, K. Nishimoto
Engineering and Deployment of Cooperative Information Systems
Han, Y.; Tai, S.; Wikarski, D. (Eds.)
2002, XIV, 570 p., Softcover
ISBN: 978-3-540-44222-6