Net.ObjectDays 2002

Tagungsband
Evaluierter Beiträge
Hauptkonferenz

3rd International Symposium on Multi-Agent Systems, Large Complex Systems, and E-Businesses

07. - 10. Oktober 2002
Kongresszentrum Messe Erfurt
## 1. Net.ObjectDays Hauptkonferenz

### 1.1 Embedded and Distributed Systems

**Thomas Friese, Bernd Freisleben, Steffen Rusitschka, Alan Southall**

A Framework for Resource Management in Peer-to-Peer Networks

**Michael Engel, Bernd Freisleben**

A Lightweight Communication Infrastructure for Spontaneously Networked Devices With Limited

**Danny Weyns, Eddy Truyen, Pierre Verbaeten**

Papers reviewed and accepted by the NODe PC Serialization of a Distributed Execution-state in Java

### 1.2 Components and MDA

**Peter Fettke, Peter Loos**

Specification of Business Components

**Alexander Christoph**

Graph Rewrite Systems for Software Design Transformation

**Johannes Mayer, Ingo Melzer, Franz Schweiggert**

Lightweight Plug-In-Based Application Development

**Ross Gardler, Nikolay Mehandjiev**

Supporting Component-Based Software-Evolution

### 1.3 Java Technology

**Dominik Gruntz, René Müller**

Java Smart Ticket Demo Application Scrutinized

**Stefan Paal, Reiner Kammler, Bernd Freisleben**

Java Class Deployment Using Class Collections

**Stefan Böttcher, Robert Hoeppe**

Integrating the Java 2 Enterprise Environment with Java Data Objects

### 1.4 Web-Services

**Daniel Dui, Wolfgang Emmerich, Christian Nentwich, Bryan Thal**

Consistency Checking of Financial Derivatives Transactions

**Stefan Kuhlins, Ross Tredwell**

Toolkits for Generating Wrappers

**Philipp Thun, Michael Robstock**

Generische Konzeption eines Verhandlungsprozesses in ebXML

### 1.5 AOSD

**Robert Hirschfeld**

Aspect-Oriented Programming with AspectJ

**Awais Rashid, Neil Loughran**

- Relational Database Support for Aspect-Oriented Programming

### 1.6 Agents and Mobility

**Stefan Kirn**

Ubiquitous Healthcare: The OnkoNet Mobile Agents

**Hubert Baumeister, Nora Koch, Piotr Kosiučzenko, Martin Wirsing**

Extending Activity Diagrams to Model Mobile Systems

### 1.7 Product Lines

**Michalis Anastasopoulos, Colin Atkinson, Dirk Muthig**

A Concrete Method for Developing and Applying Product Line Architectures

**Dirk Muthig, Thomas Patzke**

Generic Implementation of Product Line Components

### 1.8 Synchronization

**J. Leslie Keedy, Gisela Menger, Christian Heinlein, Frans Henskens**

Qualifying Types Illustrated by Synchronisation Examples

**Christian Heinlein**

Advanced Thread Synchronization in Java

### 1.9 Testen, Refactoring, CASE Tools

**Marko Boger, Thorsten Sturm, Per Fragemann**

Refactoring Browser for UML

**Jens Uwe Pipka**

Test-Driven Web Application Development in Java

**Matthias Riebisch, Ilka Philippow, Marco Götze**

UML-Based Statistical Test Case Generation

**Udo Kelter, Marc Monecke, Markus Schild**

Do we need 'agile' Software Development Tools?
2. 3rd International Symposium on Multi-Agent Systems, Large Complex Systems, and E-Businesses MALCEB'2002

**Hans Czap**

Multi-Agents Systems (MAS) between Hierarchy and Market: Organizational Issues to Determine Scope and Status of MAS-Applications

**Huaglory Tianfield**

Toward the Essence of E-Businesses

**Mao Xinjun, Wang Huaiming, Wu Gang, Zhao Jianming**

Formal Model of Joint Maintenance Intention

**Bora I. Kumova**

CEVOP: A Co-evolutionary Planning Methodology

**Madhu Goyal**

An Agent's Perspective of a Team in a Dynamic World

**Andrew Potter, Gordon Streeter**

Work-Centered Services for the Semantic Web

**Mahmoud Tchikou, Eric Gouardères**

Multi Agent Model to Control Production System: a Reactive and Emergent Approach by Cooperation and Competition Between Agents

**Javier Soriano, Fernando Alonso, Genoveva López**

Social Commitment Policies for Formally Specifying the Organisation and Behavior of Open Agent Societies

**Thomas Wagner**

An Agent-Oriented Approach to Industrial Automation Systems

**Ralf König**

State-Based Modeling Method for Multiagent Conversation Protocols and Decision Activities

**Ismail Dagli, Michael Brosi, Dr. Gabi Breuel**

Action Recognition And Prediction For Driver Assistance Systems Using Dynamic Belief Networks

**Dr. Dayou Li, Dr. Jie Zhang**

Collaborative Agent System Using Fuzzy Logic

**Karl Kurbel, Iouri Loutchko**

Multi-agent Negotiation under Time Constraints on an Agent-based Marketplace for Personnel Acquisition

**Peter Henderson, Stephen Crouch, Robert J. Walters, Qinglai Ni**

Comparison of some Negotiation Algorithms using a Tournament-Based Approach

**Laurent Magnin, Hicham Snoussi, Viet Thang Pham, Arnaud Dury, Jian-Yun Nie**

Agents Need to Become Welcome

**Małgorzata Pankowska, Henryk Sroka**

Business Process Reengineering and Software Agents Development

**Matteo Bonifacio, Roberta Cuel, Gianluca Mameli, Michele Nori**

A Peer-to-Peer Architecture for Distributed Knowledge Management

---

3. Appendix

**Sponsoren**

**Träger**

**Unternehmenskurzprofile**
4. Workshops

4.1 4th European GCSE Young Researchers Workshop (GCSE/YRW)

Roland Laqua
Concepts for a Product Line Knowledge Base & Variability 15

Kopanitsanos Antonis
Dynamic Attribute Addition through the use of Metaclasses 25

Harald Wehr
Integrating Heterogeneous Data Sources into Federated Information Systems 34

Marco Castaldi, Nathan D. Ryan
Supporting Component-based Development by Enriching the Traditional API 44

4.2 Agent Technology and Software Engineering (AGES)

G. Rimassa
Perspectives for Agent Middleware 49

M. Cossentino
Different Perspectives in Designing Multi Agent Systems 61

J. Soriano, G. Lopez, F. Alonso
Policy Infrastructure as an Extension to the FIPA Abstract Architecture for Open Agent Platform Design 74

W. Chen, K. Decker
Component-based Approach for Multiagent Coordination 88

P. Bresciani, F. Sannicolo
Requirements Analysis in Trapos: A Self Referencing Example 100

P. Moraitis, E. Petreki, N. Spanoudakis
Engineering Jade Agents with the GAIA Methodology 115

M. Cossentino, P. Burrufato, S. Lombardo, L. Sabatucci
Introducing Pattern Reuse in the Design of Multi-Agent Systems 129

J. Bryson
The Behavior-Oriented Design of Modular Agent Intelligence 142

S. Fonseca
An Agent Architecture Composed from Reusable Subsystems: Decomposition Framework and High-Level Design 157

X. Fan, B. Li, R.-J. Back
Building Software Agents by Stepwise Feature Introduction - A Case Study 170

K. Bertels, M. Boman
Component-based Development in Multi Agent Systems 185

R. Abbasi, F. Mitchell, S. Greenwood
A Framework for Inter Society Communication in Agents 194

V. Holderfield, M. Huhs
A Foundational Analysis of Software Robustness Using Redundant Agent Collaboration 206

4.3 Agent Technologies for e-Services (ATES)

Zakaria Maamor
Agent Technologies for M-Services 340

Luís Nogueira, Eugénio Oliveira
A Multi-Agent System for E-Insurance Brokering 354

Anthony Karageorgos, Simon Thompson, Nikolay Mehandjiev
Specifying Reuse Concerns in Agent System Design Using a Role Algebra 373

4.4 Web Databases / Java and Databases: Persistence Options (Web&DB/Java)

J.-P. Arcangeli, A. Hameurlain, F. Migeon, F. Morvan
An Adaptive Hash Join Algorithm using Mobile Agents 389

Karl Kurbel, Andrzej Dabkowski
Dynamic WAP Content Generation with the Use of Java Server Pages 403

Giuseppe Psaila, Davide Brugali
Integrating Relational Databases and XML Technology: the ERX Tool 418

Ho Ngoc Duc, Hendrik Höfer
Mapping Java objects to relational databases with MPFF 430

Bernhard Schiefer, Christian Fecht
Persistence for Large Enterprise Systems in the Java World 439

Julia Gutjahr, Andreas Loew
Scalability and Performance: JDBC Best Practices and Pitfalls 449
4.5 Web Services: Research, Standardization and Deployment
(WS-RSD'02) – separately published by Springer LNCS

Sergio Mergen, Carlos Alberto Heuser, Eduardo Kroth
AXIS - a Java implementation of a data exchange architecture among heterogeneous data sources using XML documents 464

Willem-Jan van den Heuvel, Sergel Artyschew
Developing A Three-Dimensional Transaction Model for Supporting Atomicsity Spheres 474

Zaijun Hu
Using Ontology to bind Web Services to the Data Model of Automation Systems 486

Mario Jeckle, Barbara Zengler
Active UDDI - an Extension to UDDI for Dynamic and Fault-Tolerant Service Invocation 500

Bahman Kalali, Paulo Alencar, Don Cowan
WSNF: Designing a Web Service Notification Framework for Web Services 510

Dr. M. Montebello, C. Abela
DAML enabled Web Services and Agents in the Semantic Web 522

Sven Overhage
On Specifying Web Services Using UDDI Improvements 535

Paula F. Pires, Mário R. F. Benevides, Marta Mattoso
Building Reliable Web Services Composition 551

Silva Robak, Bogdan Franczyk
Modeling Web Services Variability with Feature Diagrams 563

Robert Tolksdorf
A Dependence Markup Language for Web Services 573

Dr. Ulrich Topp, Peter Müller
Web based service for embedded devices 585

Sören Bahls
Anwendung von Web Services in der Automobilindustrie 596

Christian Weber
Aspekte des Einsatz von UDDI in B2B-Systemen 643

Maritta Heisel, Heidi Krömker
Logische Modellierung von Anwendungswelten aus Benutzersicht 649

D.-H. Hoang, D. Reschke
A Scheduling Scheme for QoS Supports in the Heterogeneous Wireless Network Environment 657

T. Vu, D. Reschke, W. Horn
Dynamic Packet Size Mechanism (DPSM) for Multimedia in Wireless Networks 667

Prof. Dr. Ralf Böse
3D-Produktpräsentationen im Internet 675

Alexander Eichhorn, Winfried Kühnhauser
Datenströme in multimediaalen Systemen - Merkmale und Auswirkungen 687

Dr. Olaf Götz
Media-Streaming Technologien und Konzepte 696

Thorsten Strufe
Effizientes Peer-to-Peer-Distributionssystem für multimediale Inhalte 704

4.6 Multimediale Informations- und Kommunikationssysteme (MIK)

Eckhardt Schön
Vorschlag für ein einfaches XML-Management-System 603

Thomas Heimrich, Günther Specht
Erweiterte ECA-Regeln für verteilte aktive Datenbanksysteme 610

Marcus Popp, Gerold Körber
Modellierung und Generierung eines Produkthandbuches in XML zur Wiederverwendung für unterschiedliche Ausgabemedien - Praxisbericht 618

Jörg Benze
Ansätze zum automatischen Fehlermanagement in Netzenwerken 625

Ralf Döring
SConfi: Ein flexibles Architekturmodell für das Konfigurationsmanagement 631

Jörg Deutschmann
Verzeichnisstrukturen im Rechenzentrum einer Hochschule 637