

Table of Contents

Architecture

- Using Web Services Architecture in a Grid Infrastructure:
An Early Implementation of Web Services Actors,
Programming a Grid Application to Access Astronomical Databases 1
Serena Pastore
- A Scalable Entry-Level Architecture
for Computational Grids Based on Web Services 15
Mario Jeckle, Ingo Melzer, and Jens Peter
- Enhancing Java Grid Computing Security with Resource Control 30
Jarle Hulaas, Walter Binder, and Giovanna Di Marzo Serugendo

Composition

- An Approach to Flexible Application Composition
in a Diverse Software Landscape 48
Roy Oberhauser
- An Ontology-Based Framework for Semantic Grid Service Composition . . . 63
Claus Pahl
- Towards a Metamodeling Based Method
for Representing and Selecting Grid Services 78
Sergio Andreozzi, Paolo Ciancarini, Danilo Montesi, and Rocco Moretti

Security

- Towards a Flexible Trust Model for Grid Environments 94
Elvis Papalilo and Bernd Freisleben
- Decentralized, Adaptive Services:
The AspectIX Approach for a Flexible and Secure Grid Environment 107
Rüdiger Kapitza, Franz J. Hauck, and Hans Reiser
- A Specification for Security Services on Computational Grids 119
*Franco Arcieri, Fabio Fioravanti, Enrico Nardelli,
and Maurizio Talamo*

Management

Grid Service Management by Using Remote Maintenance Shell 136
*Gordan Jezic, Mario Kusek, Tomislav Marenic, Ignac Lovrek,
Sasa Desic, Krunoslav Trzec, and Bjorn Dellas*

The Grid-Occam Project 151
Peter Tröger, Martin von Löwis, and Andreas Polze

Author Index 165