

Table of Contents

Invited Presentation

Grid Application Design Using Software Components and Web Services . . .	1
<i>Dennis Gannon</i>	

Object Middleware

Design and Implementation of a CORBA Commodity Grid Kit	2
<i>Snigdha Verma, Manish Parashar, Jarek Gawor, Gregor von Laszewski</i>	
Towards High Performance CORBA and MPI Middlewares for Grid Computing	14
<i>Alexandre Denis, Christian Pérez, Thierry Priol</i>	
An Integrated Grid Environment for Component Applications	26
<i>Nathalie Furmento, Anthony Mayer, Stephen McGough, Steven Newhouse, Tony Field, John Darlington</i>	

Resource Discovery and Management

KNOWLEDGE GRID: High Performance Knowledge Discovery on the Grid	38
<i>Mario Cannataro, Domenico Talia, Paolo Trunfio</i>	
On Fully Decentralized Resource Discovery in Grid Environments	51
<i>Adriana Iamnitchi, Ian Foster</i>	
An Adaptive Service Grid Architecture Using Dynamic Replica Management	63
<i>Byoung-Dai Lee, Jon B. Weissman</i>	
Identifying Dynamic Replication Strategies for a High-Performance Data Grid	75
<i>Kavitha Ranganathan, Ian Foster</i>	

Scheduling

Ensemble Scheduling: Resource Co-Allocation on the Computational Grid	87
<i>Jon B. Weissman, Pramod Srinivasan</i>	
JobQueue: A Computational Grid-Wide Queuing System	99
<i>Dimitrios Katramatos, Marty Humphrey, Andrew Grimshaw, Steve Chapin</i>	

A Scheduling Model for Grid Computing Systems 111
Anuraag Sarangi, Alok Shriram, Avinash Shankar

Grid Architecture and Policies

Exposed vs. Encapsulated Approaches to Grid Service Architecture 124
Micah Beck, Terry Moore, James S. Plank

A Methodology for Account Management in Grid Computing
Environments 133
Thomas J. Hacker, Brian D. Athey

Policy Engine: A Framework for Authorization, Accounting Policy
Specification and Evaluation in Grids 145
Babu Sundaram, Barbara M. Chapman

Performance and Practice

Performance Contracts: Predicting and Monitoring Grid Application
Behavior 154
Frederik Vraalsen, Ruth A. Aydt, Celso L. Mendes, Daniel A. Reed

Production-Level Distributed Parametric Study Capabilities for the Grid 166
Maurice Yarrow, Karen M. McCann, Edward Tejnil, Adrian DeVivo

The D0 Experiment Data Grid - SAM 177
*Lee Lueking, Lauri Loebel-Carpenter, Wyatt Merritt, Carmenita Moore,
Ruth Pordes, Igor Terekhov, Sinisa Veseli, Matt Vranicar, Steve White,
Vicky White*

Author Index 185

<http://www.springer.com/978-3-540-42949-4>

Grid Computing - GRID 2001

Second International Workshop, Denver, CO, USA,

November 12, 2001. Proceedings

Lee, C.A. (Ed.)

2001, XII, 188 p., Softcover

ISBN: 978-3-540-42949-4