

# Table of Contents

## Management Architecture

Requirements on Quality Specification Posed by Service Orientation . . . . .	1
<i>Markus Garschhammer, Harald Roelle</i>	

Automating the Provisioning of Application Services with the BPEL4WS Workflow Language . . . . .	15
<i>Alexander Keller, Remi Badonnel</i>	

HiFi+: A Monitoring Virtual Machine for Autonomic Distributed Management . . . . .	28
<i>Ehab Al-Shaer, Bin Zhang</i>	

## SLA Based Management

Defining Reusable Business-Level QoS Policies for DiffServ . . . . .	40
<i>André Beller, Edgard Jamhour, Marcelo Pellenz</i>	

Policy Driven Business Performance Management . . . . .	52
<i>Jun-Jang Jeng, Henry Chang, Kumar Bhaskaran</i>	

Business Driven Prioritization of Service Incidents . . . . .	64
<i>Claudio Bartolini, Mathias Sallé</i>	

## Policy Based Management

A Case-Based Reasoning Approach for Automated Management in Policy-Based Networks . . . . .	76
<i>Nancy Samaan, Ahmed Karmouch</i>	

An Analysis Method for the Improvement of Reliability and Performance in Policy-Based Management Systems . . . . .	88
<i>Naoto Maeda, Toshio Tonouchi</i>	

Policy-Based Resource Assignment in Utility Computing Environments . . . . .	100
<i>Cipriano A. Santos, Akhil Sahai, Xiaoyun Zhu, Dirk Beyer, Vijay Machiraju, Sharad Singhal</i>	

## Automated Management

Failure Recovery in Distributed Environments with Advance Reservation Management Systems . . . . .	112
<i>Lars-Olof Burchard, Barry Linnert</i>	

Autonomous Management of Clustered Server Systems Using JINI . . . . .	124
<i>Chul Lee, Seung Ho Lim, Sang Soek Lim, Kyu Ho Park</i>	

Event-Driven Management Automation in the ALBM Cluster System . . .	135
<i>Dugki Min, Eunmi Choi</i>	

## Analysis and Reasoning

A Formal Validation Model for the Netconf Protocol . . . . .	147
<i>Sylvain Hallé, Rudy Deca, Omar Cherkaoui, Roger Villemaire, Daniel Puche</i>	

Using Object-Oriented Constraint Satisfaction for Automated Configuration Generation . . . . .	159
<i>Tim Hinrichs, Nathaniel Love, Charles Petrie, Lyle Ramshaw, Akhil Sahai, Sharad Singhal</i>	

Problem Determination Using Dependency Graphs and Run-Time Behavior Models . . . . .	171
<i>Manoj K. Agarwal, Karen Appleby, Manish Gupta, Gautam Kar, Anindya Neogi, Anca Sailer</i>	

## Trust and Security

Role-Based Access Control for XML Enabled Management Gateways . . .	183
<i>V. Cridlig, O. Festor, R. State</i>	

Spotting Intrusion Scenarios from Firewall Logs Through a Case-Based Reasoning Approach . . . . .	196
<i>Fábio Elias Locatelli, Luciano Paschoal Gaspary, Cristina Melchior, Samir Lohmann, Fabiane Dillenburg</i>	

A Reputation Management and Selection Advisor Schemes for Peer-to-Peer Systems . . . . .	208
<i>Loubna Mekouar, Youssef Iraqi, Raouf Boutaba</i>	

## Implementation, Instrumentation, Experience

Using Process Restarts to Improve Dynamic Provisioning . . . . .	220
<i>Raquel V. Lopes, Walfredo Cirne, Francisco V. Brasileiro</i>	

Server Support Approach to Zero Configuration In-Home Networking . . .	232
<i>Kiyohito Yoshihara, Takeshi Kouyama, Masayuki Nishikawa, Hiroki Horiuchi</i>	

Rule-Based CIM Query Facility for Dependency Resolution . . . . .	245
<i>Shinji Nakadai, Masato Kudo, Koichi Konishi</i>	

## Short Papers

Work in Progress: Availability-Aware Self-Configuration in Autonomic Systems .....	257
<i>David M. Chess, Vibhore Kumar, Alla Segal, Ian Whalley</i>	
ABHA: A Framework for Autonomic Job Recovery .....	259
<i>Charles Earl, Emilio Remolina, Jim Ong, John Brown, Chris Kuszmaul, Brad Stone</i>	
Can ISPs and Overlay Networks Form a Synergistic Co-existence? .....	263
<i>Ram Keralapura, Nina Taft, Gianluca Iannaccone, Chen-Nee Chuah</i>	
Simplifying Correlation Rule Creation for Effective Systems Monitoring .....	266
<i>C. Araujo, A. Biazetti, A. Bussani, J. Dinger, M. Feridun, A. Tanner</i>	
<b>Author Index</b> .....	269

Utility Computing

15th IFIP/IEEE International Workshop on Distributed  
Systems: Operations and Management, DSOM 2004,  
Davis, CA, USA, November 15-17, 2004. Proceedings  
Sahai, A.; Felix, W. (Eds.)  
2004, XII, 276 p., Softcover  
ISBN: 978-3-540-23631-3