

# Table of Contents

## Bandwidth Allocation

Fair Bandwidth Allocation for the Integration of Adaptive and Non-adaptive Applications . . . . .	1
<i>R.M. Salles and J.A. Barria</i>	
A Managed Bandwidth Reservation Protocol for Ad Hoc Networks . . . . .	13
<i>C. Chaudet, O. Festor, I. Guérin Lassous, and R. State</i>	
Predictive Dynamic Bandwidth Allocation Based on Multifractal Traffic Characteristic . . . . .	21
<i>G.R. Bianchi, F.H. Vieira Teles, and L.L. Ling</i>	
Bandwidth Allocation Management Based on Neural Networks Prediction for VoD System Providers . . . . .	31
<i>D.G. Gomes, N. Agoulmine, and J.N. de Souza</i>	

## Policy-Based Operations

Policy-Based Management of Grids and Networks Through an Hierarchical Architecture . . . . .	42
<i>R. Neisse, E.D.V. Pereira, L.Z. Granville, M.J.B. Almeida, and L.M.R. Tarouco</i>	
Policy-Based Service Provisioning for Mobile Users . . . . .	55
<i>M. Ganna and E. Horlait</i>	
Dynamic IP-Grouping Scheme with Reduced Wireless Signaling Cost in the Mobile Internet . . . . .	67
<i>T. Kim, H. Lee, B. Choi, H. Park, and J. Lee</i>	
3G Wireless Networks Provisioning and Monitoring Via Policy-Based Management . . . . .	79
<i>S. Soulhi</i>	

## Service Monitoring

Combined Performance Analysis of Signal Level-Based Dynamic Channel Allocation and Adaptive Antennas . . . . .	92
<i>Y.C.B. Silva, E.B. Silva, T.F. Maciel, F.R.P. Cavalcanti, and L.S. Cardoso</i>	

Exploring Service Reliability for Content Distribution to Partial or Intermittent DVB-S Satellite Receivers . . . . . 104  
*H. Mannaert and P. Adriaenssens*

Priority-Based Recovery Assurance for Double-Link Failure in Optical Mesh Networks with Insufficient Spare Resources . . . . . 110  
*H. Hwang*

Service Model and Its Application to Impact Analysis . . . . . 116  
*R. Lau and R. Khare*

**Intelligent Architectural Systems**

Active Networks and Computational Intelligence . . . . . 128  
*M. Jalili-Kharaajoo and B. Moshiri*

Distributed Artificial Intelligence for Network Management Systems — New Approaches . . . . . 135  
*F. Koch, C.B. Westphall, M.D. de Assuncao, and E. Xavier*

Network Traffic Sensor for Multiprocessor Architectures: Design Improvement Proposals . . . . . 146  
*A. Ferro, F. Liberal, A. Muñoz, and C. Perfecto*

Software Modeling for Open Distributed Network Monitoring Systems . . . 158  
*J.W. Kallman, P. Minnaie, J. Truppi, S.M. Dascalu, and F.C. Harris Jr.*

**Mobility and Wireless**

Analysis and Contrast Between STC and Spatial Diversity Techniques for OFDM WLAN with Channel Estimation . . . . . 170  
*E.R. de Lima, S.J. Flores, V. Almenar, and M.J. Canet*

Cumulative Caching for Reduced User-Perceived Latency for WWW Transfers on Networks with Satellite Links . . . . . 179  
*A. Bhalekar and J. Baras*

Mobility Agent Advertisement Mechanism for Supporting Mobile IP in Ad Hoc Networks . . . . . 187  
*H.-G. Seo and K.-H. Kim*

Agent Selection Strategies in Wireless Networks with Multihomed Mobile IP . . . . . 197  
*C. Åhlund, R. Brännström, and A. Zaslavsky*

**Protocol Mechanisms**

An On-Demand QoS Routing Protocol for Mobile Ad-Hoc Networks . . . . . 207  
*M. Liu, Z. Li, J. Shi, E. Dutkiewicz, and R. Raad*

Point-to-Point Blocking in 3-Stage Switching Networks with Multicast Traffic Streams .....	219
<i>S. Hanczewski and M. Stasiak</i>	
Considerations on Inter-domain QoS and Traffic Engineering Issues Through a Utopian Approach .....	231
<i>P. Levis, A. Asgari, and P. Trimintzios</i>	
Probabilistic Routing in Intermittently Connected Networks .....	239
<i>A. Lindgren, A. Doria, and O. Schelén</i>	
<b>Performance Across Domains</b>	
Communication Protocol for Interdomain Resource Reservation .....	255
<i>M.-M. Tromparent</i>	
Performance Evaluation of Shortest Path Computation for IP and MPLS Multi-service Networks over Open Source Implementation .....	267
<i>H. Abdalla Jr., A.M. Soares, P.H.P. de Cavalho, G. Amvame-Nze, P. Solís Barreto, R. Lambert, E. Pastor, I. Amaral, V. Macedo, and P. Tarchetti</i>	
Design and Evaluation of Redundant IPC Network Adequate for an Edge Router .....	279
<i>Y. Kim, J. Huh, H. Jung, and K.R. Cho</i>	
Leaky Bucket Based Buffer Management Scheme to Support Differentiated Service in Packet-Switched Networks .....	291
<i>K.-W. Kim, S.-T. Lee, D.-I. Kim, and M.M.-O. Lee</i>	
An Improved Service Differentiation Scheme for VBR VoIP in Ad-Hoc Networks Connected to Wired Networks .....	301
<i>M.C. Domingo and D. Remondo</i>	
<b>Author Index</b> .....	311



<http://www.springer.com/978-3-540-22567-6>

Service Assurance with Partial and Intermittent  
Resources

First International Workshop, SAPIR 2004, Fortaleza,  
Brazil, August 1-6, 2004, Proceedings

Dini, P.; Lorenz, P.; Neuman De Souza, J. (Eds.)

2004, XII, 316 p., Softcover

ISBN: 978-3-540-22567-6