

Table of Contents

Invited Presentation

QoS for Multimedia – What's Going to Make It Pay?	1
<i>Derek McAuley</i>	

Short Papers

New Resource Control Issues in Shared Clusters	2
<i>Timothy Roscoe, Prashant Shenoy</i>	
Transport-Level Protocol Coordination in Cluster-to-Cluster Applications	10
<i>David E. Ott, Ketan Mayer-Patel</i>	
Data to the People – It's a Matter of Control	23
<i>Mauricio Cortes, J. Robert Ensor</i>	
An Access Control Architecture for Metropolitan Area Wireless Networks	29
<i>Stefan Schmid, Joe Finney, Maomao Wu, Adrian Friday, Andrew Scott, and Doug Shepherd</i>	

Media Distribution

Design and Implementation of a QoS-Aware Replication Mechanism for a Distributed Multimedia System	38
<i>Giwon On, Jens B. Schmitt, and Ralf Steinmetz</i>	
Distribution of Video-on-Demand in Residential Networks	50
<i>Juan Segarra, Vicent Cholvi</i>	
A QoS Negotiation Scheme for Efficient Failure Recovery in Multi-resolution Video Servers	62
<i>Minseok Song, Heonshik Shin, and Naehyuck Chang</i>	

QoS Issues in Multimedia

Tolerance of Highly Degraded Network Conditions for an H.323-Based VoIP Service	74
<i>Peter Holmes, Lars Aarhus, and Eirik Maus</i>	

Conception, Implementation, and Evaluation of a QoS-Based Architecture for an IP Environment Supporting Differentiated Services.....	86
<i>Fabien Garcia, Christophe Chassot, Andre Lozes, Michel Diaz, Pascal Anelli, and Emmanuel Lochin</i>	

A Service Differentiation Scheme for the End-System	99
<i>Domenico Cotroneo, Massimo Ficco, and Giorgio Ventre</i>	

Invited Presentation

Enabling the Internet to Provide Multimedia Services.....	110
<i>Markus Hofmann</i>	

Multimedia Middleware

Design and Application of TOAST: An Adaptive Distributed Multimedia Middleware Platform	111
<i>Tom Fitzpatrick, Julian Gallop, Gordon Blair, Christopher Cooper, Geoff Coulson, David Duce, and Ian Johnson</i>	

QoS Management Middleware: A Separable, Reusable Solution	124
<i>Denise Ecklund, Vera Goebel, Thomas Plagemann, Earl F. Ecklund Jr., Carsten Griwodz, Jan Øyvind Aagedal, Ketil Lund, and Arne-Jørgen Berre</i>	

State Transmission Mechanisms for a Collaborative Virtual Environment Middleware Platform	138
<i>João Orvalho, Pedro Ferreira, and Fernando Boavida</i>	

Congestion Control and Adaptation

A Stable and Flexible TCP-Friendly Congestion Control Protocol for Layered Multicast Transmission	154
<i>Ibtissam El Khayat, Guy Leduc</i>	

Content-Aware Quality Adaptation for IP Sessions with Multiple Streams.....	168
<i>Dimitrios Miras, Richard J. Jacobs, and Vicky Hardman</i>	

The Minimal Buffering Requirements of Congestion Controlled Interactive Multimedia Applications.....	181
<i>Kang Li, Charles Krasic, Jonathan Walpole, Molly H. Shor, and Calton Pu</i>	

Short Papers

Video Content Management Using Logical Content	193
<i>Nozomu Takahashi, Yuki Wakita, Shigeki Ouchi, and Takayuki Kunieda</i>	
Adaptive Clustering Using Mobile Agents in Wireless Ad-Hoc Networks	199
<i>Robert Sugar, Sandor Imre</i>	
Mobile 4-in-6: A Novel Mechanism for IPv4/v6 Transitioning.....	205
<i>Joe Finney, Greg O'Shea</i>	
The Case for Streaming Multimedia with TCP	213
<i>Charles Krasic, Kang Li, and Jonathan Walpole</i>	

Invited Presentation

The MPEG-21 Standard: Why an Open Multimedia Framework?	219
<i>Fernando Pereira</i>	

Control of Multimedia Networks

Selecting the QoS Parameters for Multicast Applications Based on User Profile and Device Capability	221
<i>Khalil El-Khatib, Gregor v. Bochmann, and Yu Zhong</i>	
A Novel Group Integrity Concept for Multimedia Multicasting	233
<i>Andreas Meissner, Lars Wolf, and Ralf Steinmetz</i>	
Constraint-Based Configuration of Proxylets for Programmable Networks	245
<i>Krish T. Krishnakumar, Morris Sloman</i>	

Author Index	257
---------------------------	-----

Interactive Distributed Multimedia Systems

8th International Workshop, IDMS 2001, Lancaster, UK,

September 4-7, 2001. Proceedings

Shepherd, D.; Finney, J.; Mathy, L.; Race, N. (Eds.)

2001, XIV, 262 p., Softcover

ISBN: 978-3-540-42530-4