

Table of Contents

Invited Presentation

Energy-Efficient Hand-Held Multimedia Systems.....	1
<i>Gerard J.M. Smit</i>	

Efficient Audio/Video Coding and Delivery

Realisation of an Adaptive Audio Tool.....	3
<i>Arnaud Meylan and Catherina Boutremans</i>	
A Robust JPEG Coder for a Partially Reliable Transport Service.....	14
<i>Johan Garcia and Anna Brunstrom</i>	
A Dynamic RAM Cache for High Quality Distributed Video.....	26
<i>Nicolas J.P. Race, Daniel G. Waddington, and Doug Shepherd</i>	

Multimedia Conferencing, Synchronization and Multicast

Fast and Optimal Multicast-Server Selection Based on Receivers' Preference	40
<i>Akihito Hiromori, Hirozumi Yamaguchi, Keiichi Yasumoto, Teruo Higashino, and Kenichi Taniguchi</i>	
Mcast: A Multicast Multimedia Communication Software Development Platform.....	53
<i>Chung-Ming Huang and Hsu-Yang Kung</i>	
Enforcing Multipoint Multimedia Synchronisation in Videoconferencing Applications	65
<i>Philippe Owezarski</i>	

Communication, Control and Telephony over IP Networks

Utility-Based Inter-stream Adaptation of Layered Streams in a Multiple-Flow IP Session	77
<i>Dimitros Miras, Richard Jacobs, and Vicky Hardman</i>	
An Interaction Control Architecture for Large Chairperson-Controlled Conferences over the Internet.....	89
<i>Lukas Ruf, Thomas Walter, and Bernhard Plattner</i>	
Using DMIF for Abstracting from IP-Telephony Signaling Protocols.....	104
<i>R. Ackermann, V. Darlagiannis, U. Roedig, and Ralf Steinmetz</i>	

Invited Presentation

Short-Range Connectivity with Bluetooth.....	116
<i>Jaap C. Haartsen</i>	

QoS Models and Architectures

A QoS-Control Architecture for Object Middleware	117
<i>L. Bergmans, Aart van Halteren, L. Ferreira Pires, Marten J. van Sinderen, and M. Aksit</i>	
An Architecture for a Scalable Video-on-Demand Server Network with Quality-of-Service Guarantees	132
<i>L.-O. Burchard and R. Lüling</i>	
Augmented Reliable Multicast CORBA Event Service (ARMS): A QoS-Adaptive Middleware	144
<i>João Orvalho and Fernando Boavida</i>	
Middleware Support for Media Streaming Establishment Driven by User-Oriented QoS Requirements	158
<i>Cristian Hesselman, Ing Widya, Aart van Halteren, and Bart Nieuwenhuis</i>	

Multimedia Applications and User Aspects

Interaction of Video on Demand Systems with Human-Like Avatars and Hypermedia.....	172
<i>Norbert Braun and Matthias Finke</i>	
How to Make a Digital Whiteboard Secure – Using Java-Cards for Multimedia Applications	187
<i>Rüdiger Weis, Jürgen Vogel, Wolfgang Effelsberg, Werner Geyer, and Stefan Lucks</i>	
How to Keep a Dead Man from Shooting	199
<i>Martin Mauve</i>	
Building Web Resources for Natural Scientists.....	205
<i>Paul van der Vet</i>	

Invited Presentation

On the Failure of Middleware to Support Multimedia Applications	211
<i>Gordon S. Blair</i>	

Design and Implementation Approaches

JASMINE: Java Application Sharing in Multiuser Interactive Environments	214
<i>Abdulmotaleb El Saddik, Shervin Shirmohammadi, Nicolas D. Georganas, and Ralf Steinmetz</i>	
Design and Implementation of a Framework for Monitoring Distributed Component Interactions.....	227
<i>Nikolay K. Diakov, Harold J. Batteram, Hans Zandbelt, and Marten J. van Sinderen</i>	
Specification and Implementation of an Extensible Multimedia System	241
<i>Jürgen Hauser and Kurt Rothermel</i>	

Communication Protocol Implementation in Java.....	254
<i>Gyula Csopaki, Gábor András Horváth, and Gábor Kovács</i>	
Mobile Multimedia and Ubiquitous Computing Systems	
Active Component Driven Network Handoff for Mobile Multimedia Systems	266
<i>Stefan Schmid, Joe Finney, Andrew Scott, and Doug Shepherd</i>	
"Mix and Match" Media Servers	279
<i>Mauricio Cortes and J. Robert Ensor</i>	
Spatially Aware Local Communication in the RAUM System	285
<i>Felix Hupfeld and Michael Beigl</i>	
The UbiCampus Project: Applying Ubiquitous Computing Technologies in a University Environment.....	297
<i>C. Müller-Schloer and P. Mähönen</i>	
Author Index	305

Interactive Distributed Multimedia Systems and
Telecommunication Services

7th International Workshop, IDMS 2000 Enschede, The
Netherlands, October 17-20, 2000 Proceedings

Scholten, H.; Sinderen, M.J. van (Eds.)

2000, XII, 312 p., Softcover

ISBN: 978-3-540-41130-7