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# Autonomic Management of Mobile Multimedia Services

9th IFIP/IEEE International Conference on Management  
of Multimedia and Mobile Networks and Services, MMNS 2006  
Dublin, Ireland, October 25-27, 2006  
Proceedings

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## Preface

This volume presents the proceedings of the 9<sup>th</sup> IFIP/IEEE International Conference on *Management of Multimedia and Mobile Networks and Services (MMNS 2006)*, which was held from October 25<sup>th</sup> to 27<sup>th</sup> as part of Manweek 2006 in Dublin, Ireland. In line with its reputation as one of the pre-eminent fora for the discussion and debate of advances in management of multimedia networks and services, the 2006 iteration of MMNS brought together an international audience of researchers and practitioners from both industry and academia.

One of the most significant trends of recent years has been the development and considerable market penetration of multimedia-capable mobile handsets. Nevertheless, significant research challenges remain in the area of management of mobile networks supporting multimedia *services*; challenges which must be addressed by the research community if the vision of ubiquitous availability of advanced multimedia services is to be realised. The MMNS Steering Committee, noting the growing interest within the research community on solving issues relating specifically to the transport of multimedia traffic over various mobile access technologies, made the significant decision to change the long name of the MMNS conference to reflect this change in focus. For 2006 and subsequent years, it will be called “Management of Multimedia *and Mobile Networks and Services*”.

In response to the broadening of the conference scope, the MMNS 2006 Technical Programme Committee issued a call for papers reflecting critical research issues in the area of management of multimedia and mobile networks. These issues included “traditional” MMNS topics such as: distributed multimedia service management, deployment of multimedia services, and protocols for multimedia services; together with new MMNS topics such as: seamless mobility of multimedia services, adaptive multimedia services, and management of wireless ad-hoc networks. Furthermore, the Technical Programme Committee decided that MMNS 2006 should have an overall theme of “Autonomic Management of Mobile Multimedia Services”. This theme was chosen partially to reflect the broader Manweek 2006 theme of “Autonomic Component and System Management”, but also due to the observation that one of the most promising avenues for advances in network and service management research is the application of concepts such as self-governance and self-organisation – concepts that are central to the autonomic management vision.

In response to the call for papers, a total of 71 paper submissions were received from the worldwide research community. Of these, 61 were full papers and 10 were short papers. A comprehensive review process was carried out by the Technical Programme Committee and additional subject area experts, with all papers receiving at least three, and more commonly four, detailed reviews. Subsequently, all submissions were ranked based on review scores as well as the wider Technical Programme Committee’s view of their contribution and relevance to the conference scope. After lengthy discussion, it was decided to accept 18 of the 61 submitted full

papers (29.5% acceptance rate) and 6 short papers (3 of which were initially submitted as full papers, and 3 that were selected from the 10 submitted short papers). These papers present novel and interesting contributions in topics ranging from video streaming to energy consumption models for ad-hoc networks, and from autonomic handover decision management to multimedia caching. We believe that, taken together, they provide a unique insight into the current state of the art in the management of multimedia and mobile networks and services.

There are many people whose hard work and commitment were essential to the success of MMNS 2006. Foremost amongst these are the researchers who submitted papers to the conference. The overall quality of submissions this year was high, and we regret that many high quality papers had to be rejected. We would like to express our gratitude to both the MMNS Steering Committee and the Technical Programme Committee, for their advice and support through all the stages of the conference preparation. We thank all paper reviewers, in particular those outside the Technical Programme Committee, for their uniformly thorough, fair and helpful reviews. We thank both IFIP and IEEE for their continued support and sponsorship of MMNS.

Most of the more time-consuming practical and logistical organisation tasks for the conference were handled by the members of the Manweek Organisation Committee – this made our jobs significantly easier, and for that we are very grateful. Finally, we wish to acknowledge the financial support of both Science Foundation Ireland and the Manweek corporate sponsors, whose contributions were hugely instrumental in helping us run what we hope was a stimulating, rewarding and, most importantly, an enjoy-able conference for all its participants.

October 2006

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# Table of Contents

## Multimedia over Wireless (1)

Enhanced Multimedia and Real-Time Stream Throughput in Wireless Ad-Hoc LAN Using Distributed Virtual Channel Based MAC .....	1
<i>Md. Mustafizur Rahman, Choong Seon Hong</i>	
Adaptive Streaming of Combined Audio/Video Content over Wireless Networks .....	13
<i>Jeffrey Kang, Marek Burza, Peter van der Stok</i>	
Management of IEEE 802.11e Wireless LAN for Realtime QoS-Guaranteed Teleconference Service with Differentiated H.264 Video Transmission .....	25
<i>Soo-Yong Koo, Byung-Kil Kim, Young-Tak Kim</i>	

## Mobile Ad-Hoc Networks

Link Available Bandwidth Monitoring for QoS Routing with AODV in Ad Hoc Networks .....	37
<i>Stephane Lohier, Yacine Ghamri Doudane, Guy Pujolle</i>	
An Efficient and Robust Service Discovery Protocol for Dynamic MANETs .....	49
<i>Mohammad Nazeeruddin, Gerard P. Parr, Bryan W. Scotney</i>	
Modeling Energy Consumption in Error-Prone IEEE 802.11-Based Wireless Ad-Hoc Networks .....	61
<i>Tsung-Han Lee, Alan Marshall, Bosheng Zhou</i>	

## Video Streaming

MaVIS: Media-aware Video Streaming Mechanism .....	74
<i>Sunhun Lee, Kwangsue Chung</i>	
On the Power of Cooperation in Multimedia Caching .....	85
<i>Itai Dabran, Danny Raz</i>	
Delay Constrained Spatio-temporal Video Rate Control for Time-Varying Rate Channels .....	98
<i>Myeong-jin Lee, Dong-jun Lee</i>	

## Short Papers

A Scalable Framework for Content Replication in Multicast-Based Content Distribution Networks . . . . .	110
<i>Yannis Matalas, Nikolaos D. Dragios, George T. Karetzos</i>	
VidShare: A Management Platform for Peer-to-Peer Multimedia Asset Distribution Across Heterogeneous Access Networks with Intellectual Property Management . . . . .	116
<i>Tom Pfeifer, Paul Savage, Jonathan Brazil, Barry Downes</i>	
A Service-Oriented Framework to Promote Interoperability Among DRM Systems . . . . .	124
<i>Fernando Marques Figueira Filho, João Porto de Albuquerque, Paulo Lício de Geus</i>	
A Distributed Hierarchical Structure for Object Networks Supporting Human Activity Recognition . . . . .	128
<i>Venet Osmani, Sasitharan Balasubramaniam, Tao Gu</i>	
A Bandwidth-Broker Based Inter-domain SLA Negotiation . . . . .	134
<i>Haci A. Mantar, Ibrahim T. Okumus, Junseok Hwang, Steve Chapin</i>	
Efficiency of Loss Differentiation Algorithms in 802.11 Wireless Networks . . . . .	141
<i>Stephane Lohier, Yacine Ghamri Doudane</i>	

## Seamless Mobility

Towards Autonomic Handover Decision Management in 4G Networks . . . . .	145
<i>Joon-Myung Kang, Hong-Taek Ju, James Won-Ki Hong</i>	
Evaluation of an Intelligent Utility-Based Strategy for Dynamic Wireless Network Selection . . . . .	158
<i>Olga Ormond, Gabriel Miro-Muntean, John Murphy</i>	
Overlays on Wireless Mesh Networks: Implementation and Cross-Layer Searching . . . . .	171
<i>Gang Ding, John Vicente, Sanjay Rungta, Dilip Krishnaswamy, Winson Chan, Kai Miao</i>	

## Bandwidth Provisioning and Control

Adaptive Quality of Service Management for Next Generation Residential Gateways . . . . .	183
<i>Iván Vidal, Jaime García, Francisco Valera, Ignacio Soto, Arturo Azcorra</i>	

On the Location-Awareness of Bandwidth Allocation and Admission Control for the Support of Real-Time Traffic in Class-Based IP Networks . . . . .	195
<i>Stylianos Georgoulas, Panos Trimintzios, George Pavlou, Kin-Hon Ho</i>	

An Integrated Network Management Framework for Inter-domain Outbound Traffic Engineering . . . . .	208
<i>Mina Amin, Kin-Hon Ho, Michael Howarth, George Pavlou</i>	

## Multimedia over Wireless (2)

RTS/CTS Based Endpoint Admission Control for VoIP over 802.11e . . . . .	223
<i>John Fitzpatrick, Seán Murphy, John Murphy</i>	

Improving Multicast Stability in Mobile Multicast Scheme Using Motion Prediction . . . . .	235
<i>Qian Wu, Jianping Wu, Mingwei Xu</i>	

End-to-End QoS Issues of MPEG4-FGS Video Streaming Traffic Delivery in an IP/UMTS Network . . . . .	247
<i>Thomas Pliakas, George Kormentzas, Charalabos Skianis</i>	

<b>Author Index</b> . . . . .	257
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