

2010 Second International Conference on Advances in Multimedia

(MMEDIA 2010)

**Athens, Greece
13 - 19 Lwpg'4232**



**IEEE Catalog Number: CFP1023H-PRT
ISBN: 978-1-4244-7277-2**

2010 Second International Conferences on Advances in Multimedia

MMEDIA 2010

Table of Contents

Preface.....	viii
Organizing Committee.....	x
Reviewers.....	xiii

MMEDIA 1: Fundamentals in Multimedia

An Architecture for Distributing Scalable Content over Peer-to-Peer Networks	1
<i>Nicola Capovilla, Michael Eberhard, Silvano Mignanti, Riccardo Petrocco, and Janne Vehkaperä</i>	
Fast Mode Decision for H.264/AVC Encoding of Tunnel Surveillance Video	7
<i>Tong Gan and Patrice Rondao Alface</i>	
Image Segmentation with Clustering K-Means and Watershed Transform	13
<i>Adelina-Iulia Sarpe</i>	
Towards an Improved SVC-to-AVC Rewriter	18
<i>Michael Sablatschan, Michael Ransburg, and Hermann Hellwagner</i>	

MMEDIA 2: Perception and Cognition for Multimedia Users

Playing Interactivity in Public Space	22
<i>Jiun-Jhy Her</i>	
Multimodal User Guide for Experience Sharing Based on Activity Modeling	29
<i>Hyounghyun Kim and Ji-Hyung Park</i>	
Measuring Quality of Experience on a Commercial Mobile TV Platform	33
<i>Vlado Menkovski, Georgios Exarchakos, Antonio Liotta, and Antonio Cuadra Sánchez</i>	

MMEDIA 3: Multimedia Applications I

Featured Media: Nonlinear, Clickable Multimedia Content for an Interactive Video Experience	39
<i>Christian Räck, Robert Seeliger, and Stefan Arbanowski</i>	
Web-Based Visualization of Media Data for Driver Assistance	44
<i>Bin Wang, Sathiamoorthy Manoharan, and Reinhard Klette</i>	
Remote Fruition of Architectures: R&D and Training Experiences	49
<i>Antonella Lerario, Nicola Maiellaro, and Marina Zonno</i>	

MMEDIA 4: Multimedia Applications II

Applying Prediction Techniques to Reduce Uplink Transmission and Energy Requirements in Mobile Free-Viewpoint Video Applications	55
<i>Clifford De Raffaele and Carl James Debono</i>	
Approach to Identity Card-Based Voice-over-IP Authentication	61
<i>Andreas Plies, Michael Massoth, and Ronald Marx</i>	
Literature Survey on Image Watermarking Tools, Watermark Attacks and Benchmarking Tools	67
<i>Thi Hoang Ngan Le, Kim Hung Nguyen, and Hoai Bac Le</i>	
An Adaptive Live Media Streaming Architecture	74
<i>Lambros Lambrinos and Ellie Demetriou</i>	

MMEDIA 5: Multimedia Content-Based Retrieval and Analysis I

Recognizing Landmarks Using Automated Classification Techniques: Evaluation of Various Visual Features	78
<i>Giuseppe Amato, Fabrizio Falchi, and Paolo Bolettieri</i>	
A Unified Approach for Image Segmentation and Annotation to Storage and Retrieval Based on Content	84
<i>Eugen Ganea</i>	
Inductive User Preference Manipulation for Multimedia Retrieval	90
<i>David Zellhöfer</i>	
An Embedded Filesystem for Mobile and Ubiquitous Multimedia	96
<i>Nicola Corriero and Eustrat Zhupa</i>	

MMEDIA 6: Self-Organizing Multimedia Architectures

Feedback-Based Performance Tuning for Self-Organizing Multimedia Retrieval Systems	102
<i>Jan Sedmidubsky, Vlastislav Dohnal, and Pavel Zezula</i>	
QoSILAN - A Heterogeneous Approach to Quality of Service in Local Area Networks	109
<i>Christopher Köhnen, Christian Überall, Veselin Rakočević, Muttukrishnan Rajarajan, and Rudolf Jäger</i>	

Video Scene Detection Based on Recurring Motion Patterns	113
<i>Manfred del Fabro and Laszlo Böszörmenyi</i>	
Flocks: Interest-Based Construction of Overlay Networks	119
<i>Stefan Wieser and Laszlo Böszörmenyi</i>	

MMEDIA 7: Multimedia Content-Based Retrieval and Analysis II

Volume Content Indexing Using a Fractal Coding Algorithm	125
<i>Mihai Popescu, Mihai Sorin Tudorache, and Razvan Tudor Tanasie</i>	
Using Context to Understand User Intentions in Image Retrieval	130
<i>Christian Hartvedt</i>	
Implementation and Evaluation of an Adaptive Multimedia Presentation System (AMPS) with Contextual Supplemental Support Media	134
<i>Nick Rowe, Suzy Atfield-Cutts, Philip Davies, and David Newell</i>	
Multi-level Model for Synchronizing Temporal Streams on HLA-Based Distributed Multimedia Applications Using HTSPN	140
<i>Akram Hakiri, Michel Diaz, Slim Abdellatif, Pascal Berthou, and Thierry Gayraud</i>	

MMEDIA 8: Multimedia Content and Modeling I

A Multimedia Database Server Functionality	148
<i>Cosmin Stoica Spahiu</i>	
Browsing Sport Content through an Interactive H.264 Streaming Session	155
<i>Iván Alén Fernández, Fan Chen, Fabien Lavigne, Xavier Desurmont, and Christophe De Vleeschouwer</i>	
Boundary-Based Measures for Evaluation of Color Image Segmentation	162
<i>Bogdan Popescu, Andreea Iancu, Marius Brezovan, and Dumitru Dan Burdescu</i>	
Modeling and Prediction of High Definition Video Traffic: A Real-World Case Study	168
<i>Abdel Karim Al Tamimi, Raj Jain, and Chakchai So-In</i>	
Smooth and Scalable Wireless JPEG 2000 Images and Video Streaming with Dynamic Bandwidth Estimation	174
<i>Cristina Mairal and Max Agueh</i>	

MMEDIA 9: Multimedia Content and Modelling II

Scalable Video Transmission on Overlay Networks	180
<i>Tien Anh Le, Hang Nguyen, and Hongguang Zhang</i>	
Comparison of Two Image Segmentation Algorithms	185
<i>Alina Doringa, Gabriel Mihai, Liana Stanescu, and Dumitru Dan Burdescu</i>	
Super Path: A Necessary Primitive for Vector Graphic Formats	191
<i>Jean-Claude Moissinac, Cyril Concolato, and Jean Le Feuvre</i>	
Modeling Cross Media Publishing in Radio and TV Stations	196
<i>Andreas Veglis</i>	

Author Index	202
---------------------------	------------