



Technical Program



September 17th, 2006, Sunday

18.00-19:30 *Registration*

September 18th, 2006, Monday

07.15-08:00 *Registration*

08.00-08:15 *Welcome from the Organizing Committee*

08:15-09:15 *Keynote Speech*

Future Standards for Mobile Multimedia, *Leonardo Chiariglione*

09:30-11:00 *P1: Regular Papers Poster Session (with Coffee)*

Session Chair: Maurizio Murrioni

Evaluation of the Residual Packet Loss Rate Using Packet Level FEC for Delay Constrained Media Network Transport - *Xunqi Yu, James W. Modestino, Dian Fan*

Error Correcting Arithmetic Coding for JPEG 2000: Memory and Performance Analysis - *S. Zezza, M. Grangetto, M. Martina, F. Vacca, G. Masera*

A Simple Distributed Coding Algorithm for Sensor Networks - *Riccardo Bernardini, Roberto Rinaldo*

Broadcasting of Digital Cinema Streams over Wireless Channels: A Power-based Unequal Error Protection approach - *Maurizio Murrioni*

A Smoothing Algorithm for Time Slicing DVB H Video Transmission with Bandwidth Constraints - *Pietro Camarda, Giovanni Tommaso Carone, Domenico Striccoli*

Study of the QoS of Video Traffic over Integrated 3G WLAN Systems - *Ilias Politis, Michail Tsagkaropoulos, Tasos Dagiuklas, Stavros Kotsopoulos*

Motion Driven Adaptive Transform Based on Wavelet Transform for Enhanced Video Coding - *Nikola Sprijan, Marta Mrak, Ebroul Izquierdo*

A Slepian-Wolf Based Cross layer scheme suitable to sensor networks -
Arulsaravana Jeyaraj, Syed Jafar, Magda El Zarki

DelayEDD-HCCA and RT-HCCA: two new IEEE 802.11e schemes based HCCA
supporting Real-time applications - *Wafa Berrayana, Ryad Ben El-Kezadri, Farouk
Kamoun, Guy Pujolle*

Phase-Only Transform Based Shaping for Error Concealment Coding - *Lihong Ma,
Guifeng Cheng, Zhijian Wu, Xiaoxi Luo, Hanqing Lu*

Joint Source-Channel Coding for Scalable Video Atomic Bitstream by Adaptive
Turbo Code - *Naeem Ramzan, Ebroul Izquierdo*

11:00-12:40 *Session 1: Video Coding for Wireless Communication Channels*

Session Chair: Luigi Atzori

Perceptually Adaptive Joint Deringing - Deblocking Filtering for Scalable Video
Coding – *Shuai Wan, Marta Mrak, Ebroul Izquierdo*

A Weighted Layered Broadcasting Scheme for Scalable Video Transmission with
Multiple Site Reception – *Tiago Gasiba, Thomas Stockhammer, Wissam Abdel
Samad, Wen Xu, Hrjove Jenkac, Thomas Schierl*

Multiple Description Video Coding by Coefficients Ordering and Interpolation –
Nicola Conci, Francesco De Natale

Bit-stream Allocation Methods for Wavelet Based Scalable Video Coding - *Toni
Zgaljic, Nikola Sprljan, Ebroul Izquierdo*

Video Streaming in Mobile Ad Hoc Networks - *Thomas Schierl, Karsten Gänger,
Cornelius Hellge, Karsten Grüneberg, Detlev Marpe, Thomas Stockhammer, and
Thomas Wiegand (Invited Paper)*

12:40-14:00 *Lunch*

14:00-15:20 *Session 2: Multimedia Communication over Mobile Wireless Networks*

Session Chair: Pascal Frossard

Video Transmission Over Wireless Networks: Rate Control For Bursty Throughput
Channels - *Maria Teresa Carta, Tatiana Onali, Nicola Aste, Luigi Atzori*

Rake Performance For DS And TH Based UWB System In A Multipath Channel -
Annalisa Durantini, Romeo Giuliano, Franco Mazzenga

Adaptive FEC for 802.11 Burst Losses Reduction - *Silvio Lucio Oliva, Gabriella Convertino*

Interference Evaluation for a Cellular System Based on OFDMA - *Cristiano Monti, Romeo Giuliano, Franco Mazzenga, Pierpaolo Lo reti*

15:20-15:40 *Coffee Break*

15:40-17:40 *Special Session 1: 4G Forthcoming Standards and Mobile Multimedia Services*

Session Chair: Claudio Sacchi

Turbo Techniques for Joint Source-Channel Decoding of Multimedia Content - *Xavier Jaspard, Luc Vandendorpe* (Invited Paper)

Distributed Flow Admission Control for Real-Time Multimedia Services over Wireless Ad Hoc Networks - *Viraj Ambekar, Paul Bender, Jianing Ma, Yong Pei, James W. Modestino*

On the interference of Ultra Wideband Devices on Fixed Wireless Systems in a Distributed

Scenario - *Gianluca Guidoni, Romeo Giuliano, Franco Mazzenga*

Location/Situation-Aware Architecture for Mobility Management over Heterogeneous Networks - *Ernestina Cianca, Antonella Molinaro, Mauro De Sanctis, Antonio Iera, Giuseppe Araniti, Marina Ruggieri* (Invited Paper)

The Effect of Narrowband Interference on ML Fractional Frequency Estimator for OFDM - *Mohamed Marey, Heidi Steendam*

Situation-Aware Radio Resource Management for Multi-Rate MC-CDMA Wireless Networks Targeted at Multimedia Data Exchanges in Local Areas - *Leandro D'Orazio, Claudio Sacchi, Fabrizio Granelli, Francesco G.B. De Natale*

20:30 *Gala Dinner/Banquet (at the Conference Hotel)*
Best student paper award

September 19th, 2006, Tuesday

09:00-10:00 *Keynote Speech*

Integrating knowledge and content processing, *Albert Gauthier* (Unit INFSO. E2, European Commission)

10:00-11:15 *Special Session 2-A: Automatic Annotation And Retrieval Of Multimedia Content*

Session Chair: Ebroul Izquierdo

Efficient Shape Recognition Method Using Novel Metric for Complex Polygonal Shapes - *Vesna Zeljkovic, Robert B. Vincelette, Marko Savic Human*

Expert Modelling Using Semantics-Oriented Video Retrieval for Surveillance in Hard Industry - *Pavel Praks, Jindrich Cernohorsky, Vojtech Svatek*

Relevance Feedback for Image Retrieval in Structured Multi-Feature Spaces - *Divna Djordjevic, Ebroul Izquierdo*

Semantic Concept Extraction from Sports Video for Highlight Generation - *M. H. Kolekar, S. Sengupta*

An Overview of Video Shot Clustering and Summarization Techniques for Mobile Applications - *Nicola Adami, Sergio Benini, Riccardo Leonardi*

11:15-11:30 *Coffee break*

11:30-12:45 *Special Session 2-B: Automatic Annotation And Retrieval Of Multimedia Content*

Session Chair: Ebroul Izquierdo

Image Classification using Biologically Inspired Systems - *Tomas Piatrik, Krishna Chandramouli, Ebroul Izquierdo*

A learning approach to semantic image analysis - *G. Papadopoulos, P. Panagis, S. Dasiopoulou, V. Mezaris, I. Kompatsiaris*

Optimising Layout of Video Summaries for Mobile Devices using Visual Attention Modelling - *Janko Calic and Neill Campbell*

Priority Coding for Video-telephony Applications based on Visual Attention - *Nicolas Tsapatsoulis, Konstantinos Rapantzikos, Yannis Avrithis*

Attention Guided Football Video Content Recommendation on Mobile Devices - *Reede Ren, Joemon M. Jose*

12:45-14:00 *Lunch*

14:00-15:00 *Keynote Speech –*

Networked Media Collaborative EU R&D: State of Play and Future Opportunities by **Bartolomé Arroyo Fernández** (Deputy Head Networked Audiovisual Systems, Home Platforms, European Commission)

15:00-16:20 *Session 3: Image and Video Processing for Mobile Multimedia*

Session Chair: James Modestino

An Affine Symmetric Approach to Natural Image Compression - *Heechan Park, Abhir Bhalerao, Graham R. Martin, Andy C. Yu*

Low Complexity Concealment Of H.264/AVC Encoded Video For DVB-H Devices - *Susanna Spinsante, Ennio Gambi, Damiano Falcone, Stefano Morichetti*

Variable Frame Rate Video for Mobile Devices – *Vittorio Barboncini, Domenico Ciavatta, Giancarlo Gaudino, Renzo Felice, Giovanni Iacovoni, FabioUbaldi*

Perceptual Watermarking Using Just Noticeable Difference Model Based on Block Classification - *Ivan Damnjanovic, Ebroul Izquierdo*

16:20-17:40 *P2: Work in Progress Papers Poster Session (with Coffee)*

Session Chair: Giovanni Iacovoni

A Framework for Providing Adaptive Sports Video to Mobile Devices - *Cunxun Zang, Qingshan Liu, Xiaofeng Tong, Hanqing Lu*

Fast Rate-Distortion Optimization in the H.264/AVC Standard - *Tea Anselmo, Daniele Alfonso*

A multi-agent based system for affective Peer-E-Learning - *Mohamed BEN AMMAR, Mahmoud NEJI*

Fractal Coding of Color Images using Earth Mover's Distance - *Daniele D. Giusto, Maurizio Murrioni, Giulio Soro*

Mobile Services for Horse-Race Betting - A QoS Study of Streaming Horse-Race Videos to 3G Phones - *Pål Backe, Anita Andersen, Thomas Plagemann, Anders*

Spilling Efficient Scrambling of Wavelet-based Compressed Images - A comparison between simple techniques for mobile applications - *Giaime Ginesu, Tatiana Onali, Daniele D. Giusto*

A Framework for Enhanced QoS Support in IEEE802.11e Networks - *Gabriele Cecchetti, Anna L. Ruscelli*

Open Loop Transcoding Using Perceptually Adaptive Requantization of DCT Coefficients - *Francesco Bertagnolli, Matteo Lanati, Lorenzo Favalli, Francesco Gruppi*

Performance Evaluation of a Channel Estimator Applied in SFBC MIMO Systems for W-MANs - *A.D. Marousis, P. Constantinou*

SHARE: Supporting Large-Scale Rescue Operations with Communication and Information Services over Mobile Networks - *J. Löffler, J. Schon, J. Köhler*

17:40

Concluding remarks