

# IST-PHOENIX project workshop (FP6 IST-001812) 24<sup>th</sup> November 2006

at the  
**Budapest University of Technology and Economics**  
HUNGARY, Budapest  
H-1117, Magyar tudósok körútja 2. I Building B.017. room  
see <http://www.hit.bme.hu/images/bmemap.gif> for details



## Workshop description

This one day workshop is organized by the IST-PHOENIX project sponsored by the European Committee. The main goal of the project is **jointly optimising multimedia transmissions in IP based wireless networks**. The project develops a scheme offering the possibility to let the application world (source coding, ciphering) and the transmission world (channel coding, modulation) to talk to each other over an IPv6 protocol stack (network world), so that they can jointly develop an end-to-end optimised wireless communication link. The design trade-offs of interactive wireless video systems are studied and performance comparisons is provided both in the context of existing and future generations of wireless systems. The project is reaching its end and presenters will show achievements of the three years project work. Project partners are: THALES Communications, Siemens Corporate Technology, VTT, WIND Telecomunicazioni S.p.A., Cefriel, University of Southampton, CNIT/University of Bologna and Budapest University of Technology and Economics. Please visit <http://www.ist-phoenix.org> for further description.

## Workshop program

Friday, November 24, 2006	
8:00 to 9:00	Registration and Reception
9:00 to 9:30	<b>Welcome and Opening</b>
9:30 to 11:00	Session 1: video coding and modulation for JSCC/D systems <b>Papers 1,2,3,4</b>
11:00 to 11:30	Coffee Break and test-bed demonstration
11:30 to 13:00	Session 2: algorithms for the JSCC/D enabled architecture <b>Papers 5,6,7,8</b>
13:00 to 14:00	Lunch Break
14:00 to 15:30	Session 3: networking and transport layers enabling and improving JSCC/D <b>Papers 9, 10, 11, 12</b>
15:30 to 16:00	Coffee Break and test-bed demonstration
16:00 to 16:30	<b>Closing Session</b>



## Administration

The latest version of this announcement is at <http://www.ist-phoenix.org/workshop>  
Attendance to the workshop is free of charge and includes buffet lunch. Registration is required at <http://www.ist-phoenix.org/workshop/registration> For accommodation, please go to <http://www.ist-phoenix.org/workshop/accomodation.pdf> for recommended hotels.

## Technical program

### Session 1

**Temporal scalability via Frame Shuffle for H.264/AVC**, by Catherine Lamy-Bergot, THALES Communications

**Systems aspects of Scalable Video Coding (SVC)**, by Peter Amon, Siemens Corporate Technology

**Joint source and space-time coding**, by Soon X. Ng (Michael), University of Southampton

**On sequential frame synchronization in AWGN channels**, by Marco Chiani, CNIT/University of Bologna

### Session 2

**Controlling strategies for MPEG-4 and H.264 video streams**, by Maria G. Martini CNIT/University of Bologna and Catherine Lamy-Bergot, THALES Communications

**Fuzzy logic based application layer controller for H.264/SVC**, by Janne Vehkaperä, VTT

**Scalable video delivery utilizing Multimedia Adaptation Layer (MAL)**, by Jyrki Huusko, VTT

**Multicast feedback aggregation for video streaming**, by Zsolt Kovacshazi, BME

### Session 3

**Design and Analysis of a Weighted Fair Queueing Scheduler**, by Gianmarco Panza, Cefriel

**Extending UTRAN simulation modules with coded modulations**, by Attila Zsiros and Gabor Ivan, BME

**Wireless video streaming using Light-weight approximate authentication**, by Gabor Feher, BME

**Robust header compression for multimedia streaming and its extension to header protection**, by Pierre Hammes, THALES Communications

