Workshop on Impact of Scalable Video Coding on Multimedia Provisioning (SVCVision)

collocated with MOBIMEDIA - 6th International Mobile Multimedia Communications Conference

6th-8th September 2010 - Lisbon, Portugal

CALL FOR PAPERS:

Scalable Video Coding (SVC) refers to the possibility of removing certain parts of a video bit stream in order to adapt it to a changing usage environment, e.g., end device capabilities, network condition or user preferences. SVC has been an active standardization and research area for at least 20 years, reaching back to H.262/MPEG-2, which offered scalable profiles. However, these previous attempts suffered from a significant loss in coding efficiency as well as a large increase in decoder complexity (and thus energy consumption), which hindered market adoption. Only the most recent attempt, i.e., the SVC extension of H.264/AVC, focuses on avoiding these disadvantages. Since H.264/SVC standardization started in 2003, it has been at the focus of many multimedia research groups.

Today's increasing variety of end devices (smart phones, tablet PCs, Netbooks, Laptops, PCs, networked HDTVs, ...) and the associated multitude of Internet connectivity options (GPRS/EDGE, UMTS, ADSL, PLC, WiMAX, ...) provide particular momentum for SVC, which can be easily and pervasively adapted to these various usage environments. SVC also allows end devices to only decode a sub-set of the SVC bit stream, thus enabling in particular mobile end devices to minimize the necessary (processing) power requirements.

This workshop aims to provide a forum for both academic and industrial participants to exchange and discuss recent advancements and future perspectives of SVC.

SVC topics of interest include, but are not limited to:

- Robust streaming, error resilience and error concealment
- Streaming in heterogeneous environments
- Peer-to-Peer (P2P) video distribution
- Internet Protocol television (IPTV)
- Energy-efficient video distribution
- Content adaptation (e.g., scaling, rewriting, transcoding) and summarization
- Complexity optimization and new tools for achieving scalability
- Adaptation decision taking & context information
- Storage & file format
- Conditional access & protection
- Novel applications & implementation experiences

Apart from the presentation of research results, we also welcome innovative SVC demonstrations and position papers. For demos, please submit a short paper, which describes your demo.

Workshop Chair

Michael Ransburg
[Klagenfurt University]

on behalf of the SCALNET and OPTIMIX projects.

Program Committee Chairs

Hermann Hellwagner [Klagenfurt University]
Mathias Wien [RWTH Aachen University]

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Per Fröjdh [Ericsson Research]
Cyril Concolato [Telecom ParisTech]
Heiko Schwarz [Fraunhofer HHI]

Dates and Deadlines

- Paper Submission: **12-May-2010**
- Notification: **12-June-2010**
- Camera Ready: **25-June-2010**

Publications and Submission

All accepted papers will be published in **Springer Lecture Notes of ICST (LNICST)** series and included in major article indexing services.

Workshop contributions should be submitted in electronic form via ASSYST conference system. Please select the SVCVision workshop when submitting your contribution.

For more information, please visit
http://www.mobimedia.org/ws_SVCVision.html