Wednesday AM December 12, 2012

*Thanks to Stefan Winkler*, ADSC for taking notes

# HDTV2 project

4 proposals under discussion:

1. Keep HDTV2 separate and move quickly. Problem: Not enough time has passed since HDTV1. Perhaps not enough models are ready to be submitted. No urgency.
2. Combine HDTV2 with MM2 and perhaps accommodate no-audio cases. Problem: Might complicate the subjective test design. Since 720p is the lowest resolution, MM2 may be considered HDTV with audio.
3. Start UltraHD project and consider HDTV formats in this test. Problem: Cameras, and displays are rare and expensive for 4K. Also a lack of material will delay execution of such a test. HDTV formats may be inappropriate in an UltraHD test.
4. Accept Proposal 2 and move quickly; Accept proposal 3 and expect it to take a while to gather hardware and software and content. Abandon HDTV2.

**Decision: go with proposal 4.**

Discussion of UltraHD test will follow later.

# Next VQEG meeting

Ghent University volunteered to host before or after another event (QoE management workshop) they are hosting week of May 27. Possible dates are the weeks of:

* May 20
* Jun 3
* Jun 10
* July 8 (July 3-5 is QoMEX in Austria).

# MOAVI project

Presentation by *Emmanuel Wyckens* (VQEG\_MOAVI\_2012\_124\_December\_Orange\_ status)and(VQEG\_MOAVI\_2012\_111\_MOAVI\_List\_of\_Applications\_Orange\_Nov\_2012\_C\_001\_v\_1.0)

* First step: real-time, no-reference model in decoded domain, focus on basic audio and video artifacts (freeze, blockiness, blur, ghosting, mute, clipping, etc.)
* Subjective testing: MOS vs. (binary) acceptability and/or artifact visibility; in parallel study new methodology for long sequences (SSCQE has issues)

Presentation by *Mikołaj Leszczuk* (VQEG\_MOAVI\_2012\_107\_AGH\_Status)

* Artifacts from capture, processing, transmission, display
* Artifacts from capture less important for professional content, more for user-generated content (streaming sites such as bambuser.com)
* Matlab metric functions will be available for download at <http://vq.kt.agh.edu.pl/> (currently under construction)
* Demo video of binary artifact measurement (artifact X present/not present)
* Future possible additional metrics: epilepsy flash effects, lip sync

# 3DTV project (continued)

Presentation by *Taichi Kawano* (VQEG\_3DTV\_2012\_123\_Proposal for test plan for 3D objective metrics\_NTT)
**Decisions** are highlighted in red below (more details in ppt file).

* Evaluate FR metrics for picture quality of stereoscopic 3DTV
* Objective model input:
SRCs should be full HD resolution (1080i/p) for both eyes; side-by-side format (SbS) could be HRC.
Model input file format to be discussed later.
For display, post-processing may be required (e.g. passive glasses).
* Subjective test:
Voting methodology: ACR-HR
Number of viewers: 24
Viewing distance: TBD; probably 3H (possibly 5H for passive displays)
Number of simultaneous viewers per display: 1-3, if not violating 30 degrees angle and approved by experts
* Display:
System: Active shutter glasses and passive polarized glasses
Screen: professional or consumer grade 3D screen, specific model needs to be communicated to check for problems and allow for possible rejection
May need consistency between screen sizes. *Chulhee* showed some data on MOS comparisons between different screens; *Kjell* will show additional data later
Minimum screen size: 23 inches
Resolution: native 1920x1080
* SRC:
Resolution: 1080i/p
Frame rate: 24, 25, 30, 48, 50, 60 fps
File format: AVI, uncompressed UYVY
* Discussion to be continued on Thursday…

Chulhee presented results of a study of using different 3D displays and reported the subjective scores showed high correlations (VQEG\_3DTV\_2012\_122\_JRG-MMQA 3D monitor analysis\_Yonsei)