VQEG Minutes Thursday

# UltraHD Project

Presentation from Naeem. See slides in meeting files.

4K video is of interest to IRCCyN, TP-Vision, BSkyB, Swissqual, Intel, iMinds, Acreo, NTIA/ITS, Opticom, Yonsei University, FUB, and UWS.

Availability of 4K source sequences was discussed.

# RICE

First target is to look into subjective testing methodologies.

Presentation by Kjell. See slides in meeting files.

Discussion on RICE work direction.

Interested in developing improved subjective methods for interactive subjective testing: Acreo, AGH, IRCCyN, and NTIA/ITS.

# Hybrid

Chulhee presented his email to the Hybrid reflector.

Proponents were asked propose a plan on how to prove that a code change is only a bug fix and not a model change (i.e., an exact technique that can be applied to all proponents) and commit any needed extra funds.

HD1 decoding problems are under investigation.

**Agreement was reached** that AVI headers will be fixed.

Questions were raised about tandem coding in VGA3. This will be discussed tomorrow.

**Agreement was reached** to adjust the HD3 test design to reflect that HRC13 contains slicing instead of freezing.

A proposal was made to check the admissibility of bit-stream data.

# AVHD Questions

What guidance shall we have on choosing audio?

1. Take taxonomy for audio conditions and how they relate to video as sent by Patrick, reference Dr. Guan Ghan Song (who proposed this method), page 61 & 62 of her PhD thesis.
2. We would like content with speech in other languages than English. But no restriction that subjects must comprehend the language spoken.
3. Dubbed audio is of interest (i.e., where original audio contained lip synchronization and a person’s face).
4. Audiovisual sync problems are okay as part of an HRC.
5. We need guidance on combining audio HRCs and video HRCs. What is the goal? We want realistic impairments, even though this means the range of quality will be different for audio and video. The data analysis must accommodate this imbalance.
6. We don’t want a full matrix of audio HRC by video HRC, because otherwise we’ll get too few audio HRCs and video HRCs.
7. Audio-only and video-only stimuli as an impairment (e.g., video is entirely lost). Interface should ideally indicate that the other information was lost in an appropriate way (e.g., screen shows black frame with circle or clock or “not present”)
8. **Open Question:** Consider whether to use P.911/J.av-dist or use a new methodology based on document VQEG\_AVHD\_2013\_004\_2013-6-21\_video quality subjective testing method proposal\_NTIA-ITS.pptx or both.
   1. If latter, consider randomizing the order of questions on a per-user basis? Ask psychologists how best to avoid order bias of questions. In this case, should score multiple aspects of quality (video-only, audiovisual)
   2. If P.911/J.av-dist, then preference for scoring only one aspect of quality at a time.
9. Open Question: Should we use speakers in a sound isolation room, headphones or earbuds in a potentially noisier environment? We have enough labs with chambers suitable for speaker sound testing for this to be an option. This must be decided after choosing a method.
10. A common set should be used.
11. Open Question: Guidance is needed for ILG on choosing audio (e.g., type of music, variety of music)