

From: ituvidq-admin@its.bldrdoc.gov on behalf of Lewis, Michele [michele.vandyke-lewis@teranex.com]
Sent: Thursday, May 03, 2001 3:51 PM
To: H. Myler; VQEG
Subject: RE: [VQEG] RRNR Test Plan Agenda Issues
Dear VQEGers,

Here are some other issues of concern:

Section 2.2.3. Data analysis. There were 4 questions raised regarding this section that VQEG was to seek advice:

- Q1: Is the model a legitimate "mean" observer;
- Q2: Based on SSCQE testing, what are the best metrics for data analyses;
- Q3: How should the sparse matrix be handled; and
- Q4: How are lab-to-lab calculations to be handled.

Has anyone been successful in finding answers to these questions?

Section 3.2.1. Selection of test material. In my previous posting to the site on 2/26/2001 regarding source material, I indicated that the maximum sequence length available--royalty free--via the studios/post houses is 3 minutes. I have prepared two new tables (See attachment) for your review and possible inclusion here. Also, when did the test length change from 30 minutes to 45 minutes?

Section 3.2.3. Segmentation of test material. Shouldn't this read: "The test video sequences will beand recorded on D5 tapes"?

Regards,
Michele

-----Original Message-----

From: H. Myler [mailto:hrm@engr.ucf.edu]
Sent: Thursday, May 03, 2001 12:24 PM
To: VQEG
Subject: [VQEG] RRNR Test Plan Agenda Issues

Dear VQEGers (rhymes with "keggers"),

Below are a set of issues that were left unresolved in the first edit of the RRNR test plan with the exception of the SSCQE vs. DSCQS debate. Note that some of the items have been partially discussed or are resolved already pending the 1.2 revision, although it should be verified that they are resolved to the consensus of the group.

2.1.2. Viewing conditions

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<<<XXX>>> The question about the associated soundtrack is still open. May be it would be easier to forget soundtrack, especially because of language. Thus, interactions between audio and video

perception are still not well known, and some studies shown that an interaction exist, and may change opinion scores. If the associated soundtrack is choose, it would be impaired simultaneously with video, or not.

2.1.4. Viewers

A minimum of 20-25 non-expert viewers should be used. The term non-expert is used in the sense that the occupation of the viewer does not involve television picture quality and they are not experienced assessors. All viewers will be screened prior to participation for the following:

- normal (20/40) visual acuity or corrective glasses (per Snellen test or equivalent)
 - normal contrast sensitivity (<<XXX>>TBD)
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3.2.3. Segmentation of test material

Alternatively, the test video sequences can be provided as a Transport Stream file, only for the "No Reference" models. However, since the editing of Transport Streams is not as straightforward as video, it remains to be decided how the models that require a Transport Stream input can be compared to the others. <<XXX>>

3.2.5. Processing and editing sequences

<<XXX>>Objective models will take two Rec. 601 digital video sequences as input, referred to as Source and Processed, with the goal of predicting the quality difference between the Source and Processed sequences. The video sequences will be in either 625/50 or 525/60 format. The choice of HRC's and Processing will assure that the following operations do not occur between Source and Processed sequence pairs:

5.3.2. Metrics relating to Prediction Monotonicity of a model

Metric 3:

For quantized data: **Spearman rank order correlation** coefficient between MOSp and MOS.

Therefore, results obtain with this metric must be interpreted carefully. Thus, there is a lot of data and only 5 possible values, so there is a very large amount of ex-æquo ???<<XXX>>. When the ex-æquo proportion is too large, the metric becomes less efficient; so the results can't be considered alone. This metric has to be taken into account with regard of others metrics.

Footnote # 2

VQEG Test Plan, Phase I final report <<XXX correct>> <- not really an issue, what is the best way to cite?

Footnote #3

Care means that the gain and offset of the video shall be adjusted to an accuracy of 2% (<<XXX>>5%?) of full amplitude either by adjustment within the HRC/VTR or by an external processing amplifier.

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Madness is rare in individuals--but in groups, parties, nations, and ages it is the rule (Nietzsche, Beyond Good and Evil,156).