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| **ITU – Telecommunications Standardization Sector**  STUDY GROUP 21 Question C/16  **Video Coding Experts Group (VCEG)**  75th Meeting: 2-8 November 2024, Kemer, TR | Document VCEG-BW01 |

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| Question: | C/16 SG21 (VCEG) | | |
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| Title: | **Report of AHG on coding of medical and general waveform data** | | |
| Purpose: | AhG report | | |

1. **Introduction**

The mandates of the AHG are:

* Perform gap analysis
* Study requirements
* Collect example signal data for experimentation
* Communicate with DICOM on the above goals

1. **Activities**

The VCEG email reflector was used for communication related to the AHG.

Four proponents participated in the Call for Proposals on the coding of biomedical waveform data: Dolby Labs, Philips, ETRI and Fraunhofer HHI.

The institution from which the EEG data for the CfP were provided reported that some internal approval process to provide the data had not been followed when the data were released and that consequently, these data should not be used any further but should instead be deleted by anyone in possession of them.

As a consequence, the CfP coordinators decided that the initial EEG data could not be used any longer. In several calls between proponents, CfP coordinators and VCEG Rapporteurs, it was finally decided to use the MIT CHB set (https://physionet.org/content/chbmit/1.0.0/) as a replacement of the old EEG dataset. The latter set was also judged by DICOM WG 32 to be an appropriate dataset with respect to their use cases. Since the MIT CHB set contains a lot of sequences, it was decided to randomly select 137 of these sequences as the final EEG set for the CfP. The random seed for the selection as well as the code for the random selection were shared among all proponents, CfP coordinators and VCEG Rapporteurs.

Due to the disruption in the CfP process caused by the necessity to use a new EEG dataset, the proponents, CfP coordinators and VCEG rapporteurs jointly decided that the deadline for the CfP submissions should be extended by approximately one week and should be set to October 30th. Moreover, it was clarified again that, due to the CfP document, it was not mandatory to submit submissions to the CfP for all three categories but that a submission for at least one category was sufficient to participate in the CfP.

# Recommendations

The AHG recommends

* To review the submissions to the Call for Proposals on the compression of biomedical waveform data
* To start the work for the development of the new recommendation H.BWC
* To communicate with DICOM on the above goals

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