

## Minutes of the AES Technical Committee on Coding of Audio Signals

1) The meeting was called to order at the 148th AES Convention, Virtual Vienna, at 17:00 CEST, Thursday June 4, 2020 by Jürgen Herre, co-chair.

The agenda was approved, as shown in Annex 1. The chair welcomed attendees, shown in Annex 2, and thanked them for participating in the TC meeting.

The minutes of the last TC meeting at New York had been posted on the TC email reflector and then uploaded to the TC web site.

2) The Chair noted the Coding TC's workshop on "'Perceptual Audio Coders - What To Listen For" - The Web Edition' on Wednesday June 3, 1-2pm CEST which was run by Sascha Dick, Christof Faller and himself.

This convention's Heyser Lecture speaker was Francis Rumsey with a short online talk on perceptual quality for immersive and interactive content.

3) The committee discussed about events that the TC might sponsor or contribute to at the upcoming convention (149<sup>th</sup> in New York). The following activities were planned or envisaged for the Coding TC:

- A re-make of the by then finalized "Perceptual Audio Coders - What To Listen For" Web Edition package, to serve the US audience and accompany the launch in the AES web shop. Possibly to be complemented with a companion paper. Jürgen Herre will drive this.
- Gerald Schuller noted the possibility for a workshop on "Use of Artificial Neural Networks for Audio (as opposed to visual) processing. This might be ideally be implemented within the TC on Signal Processing.

4) As the main item of activity, there was an update and discussion on the TC's "Perceptual Audio Coders - What To Listen For" Web Edition project. Considerable progress has been achieved regarding presentation style and content, as presented in the workshop, which can be considered a big success.

The TC discussed the work that still needs to be done, and who will work on it:

- *Some fixes on the text part* → (S. Dick, J. Herre)
- *Generate/fine tune missing audio items* → (S. Dick, J. Herre, C. Faller)
- *Update MUSHRA listening results section* → Thomas Sporer
- *As a new idea, there could be also material on artifacts from (e.g. parametric) Multi-Channel Coding that are not audible in the sweet spot, but when approaching individual speakers or when 'soloing' isolated speakers. This could be demonstrated either by as binaural audio or just by downmix. → Will be tried by (S. Dick, C. Faller)*

- *Review within the TC → (A. Biswas, J. Skoglund, [G. Schuller])*
- *Obtain extended permission for audio items by EBU → (J. Herre)*
- *Discuss with AES Publications re publishing and promotion → (J. Herre)*

Then, the time schedule for these next steps was set up:

- *Make near final content available for early review: end of 6/2020*
- *Make chapters under work available for review: end of 7/2020*
- *Delivery of final review by 15/8/20*
- *Delivery of final package by 9/2020*
- *Publication in 10/2020*

5/6/7) There was no other business. The next meeting will happen in conjunction with the 149<sup>th</sup> AES convention. The TC meeting was adjourned at 18:02 CEST.

## ANNEX 1 – Agenda

AES TC on Coding of Audio Signals

Zoom Meeting, 17:00-18:00, Thursday June 4, 2020

148<sup>th</sup> AES Convention Virtual Vienna

- 1) Approval of Agenda
- 2) Review of recent activities for current convention / conference
  - Richard C. Heyser Memorial Lecture Series
  - Other activities
- 3) Review of / proposals for activities at upcoming conventions, conferences, workshops etc.
  - 149th AES Convention, New York
- 4) Educational CD ROM Web Edition Project
- 5) Any Other Business
- 6) Next Meeting
- 7) Closing of the Meeting

## ANNEX 2 – Participants

<b>Name</b>	<b>Company</b>
Jürgen Herre	International Audio Laboratories Erlangen / Fraunhofer IIS
Sascha Dick	Fraunhofer IIS
Gerald Schuller	TU Ilmenau
Christof Faller	Illusonic
Arijit Biswas	Dolby Laboratories
Jan Skoglund	Google