Minutes of the AES Technical Committee on Coding of Audio Signals

AES TC on Coding of Audio Signals
Fri, May 16, 16-17 CET
158th AES Convention, Warsaw

1) The meeting was called to order during the 158th AES Convention, as a hybrid on-site and virtual meeting over Zoom, at 14:00 CEST by Jürgen Herre, chair.

The agenda was approved, as shown in Annex 1. The chair welcomed attendees, shown in Annex 2.

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

2) Status "What To Listen For" tutorial project & publication
Currently, a JAES article on the new generation of the coding artifacts tutorial is under development. The document is shared and developed as an Overleaf project and several existing sections were already revised to meet the desired quality. The status of the document was reviewed, and some missing steps were identified and allocated to volunteers:

- A new figure for temporal masking (with shorter pre-masking time) will be included (J. Herre)
- Check references for duplicates (S. Dick)
- Check Figures 10+11 and associated text
- Update Subsection 3.2 (Access) to show URLs at AudioLabs Web Site (https://www.audiolabs-erlangen.de/content/resources/aesCodingTutorial/index.html and https://www.audiolabs-erlangen.de/resources/aesCodingTutorial/AES_TC_CAS_Tutorial_release.zip) (S. Dick)
- Style and content upgrade for artifacts Subsections 3.1ff (G. Schuller)
- Subsections 3.9.4, 5, 6 to be condensed into one paragraph (P. Delgado)

Aim: Submission to JAES before summer break (i.e. July 2025)

3) Discussing the activities for the current AES convention at Warsaw, there was no TC-sponsored activity
This convention's Heyser Lecture was given by the chair, Jürgen Herre, with a talk on how understanding of auditory perception can fuel many innovations ("It's All About Perception – A Personal Research Journey"), including some personal historical and technical views on the development of mp3 and AAC.

4) A panel proposal on “Evaluation of neural audio codecs” was submitted by P. Delgado on behalf of the TC (speakers P. Delgado, J. Skoglund, J. Herre, Stefan Ragol). Notification about acceptance is expected soon

The committee discussed about events that it might sponsor or contribute to at the upcoming convention (159th) in Long Beach. The following activities were planned or envisaged for the Coding TC:

- A repetition of the above panel proposal (Deadline: June 1st)
- Workshop on the MPEG-I Audio standard (%)

5 – AOB)
It was discussed that the coding TC can submit nominations for awards and that proposals for suitable persons are desired. The chair could be contacted directly on that issue.

6/7) The next meeting will happen in conjunction with the 159th AES convention, possibly again as a mixed on-site/hybrid meeting, if logistics allows.

The TC meeting was adjourned at 16:50 CEST.

ANNEX 1 – Agenda

AES TC on Coding of Audio Signals
Sun, June 16, 11-12am CEST
156th AES Convention

1) Approval of Agenda & Opening Remarks of Chairman
2) Status "What To Listen For" tutorial project
3) Review of activities for current convention
   - Richard C. Heyser Memorial Lecture Series
   - Other activities:
4) Review of / proposals for activities at upcoming conventions, conferences, workshops etc.
5) Any Other Business
6) Next Meeting
7) Closing of the Meeting

ANNEX 2 – Participants

Name	**Company**
Jürgen Herre	International Audio Laboratories Erlangen / Fraunhofer IIS
Jan Skoglund (joined 16:20)	Google
Karlheinz Brandenburg	Brandenburg Labs
Remi Auffrey	Meta
Gerald Schuller (remote)	TU Ilmenau
Sascha Dick (remote)	Fraunhofer IIS
Pablo Delgado (remote)	Fraunhofer IIS
Marina Bosi (remote)	Stanford University
Christof Faller (remote)	Illusonic Inc.