

Minutes of the AES Technical Committee on Coding of Audio Signals

1) The meeting was called to order after the 152nd AES Convention, as a Virtual meeting over zoom, at 17:00 CEST, Tuesday May 24, 2022 by Jürgen Herre, co-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) The chair reported about the current dissemination situation of the TC's "Perceptual Audio Coders - What To Listen For" Web Edition tutorial package. While the package is available on the web for AES members for free, it regrettably could not be made available for non-AES-members through an AES shop facility even after a period of more than a year. This is caused by the difficult IT development process the AES has been undergoing for a while.

Thus, after a communication of the chair with the current AES president, Joshua Reiss, at the recent AES in-person convention in Den Haag, the plan is to

- make the content freely available for everyone
- host via a regular web site (outside the AES) with the following requirements:
 - The site should be stable
 - The site should be able to be referenced
 - The site & content should be clearly visible as attributed to the AES

The group accepted this plan and an offer to set up such a web page at the International Audio Laboratories Erlangen. This would become the Tutorial's home page including

- General Info on the Tutorial
- Promotional Video
- Link for Web Entry of tutorial
- Link for download of tutorial package
- AES Logo / corporate layout

Jürgen Herre and Sascha Dick will work on this. Once this page is available, also other lists of resources can reference the tutorial home page.

The motion to make the content free and set up a dedicated page will be aired on the Coding TC's mail reflector and in the upcoming AES Technical Council Meeting.

3) Discussing the activities for the current AES convention, Gerald Schuller (and Sascha Spors) had presented a tutorial on "Deep Learning For Audio Signal Processing" which provides tutorial examples of Python code for functions like AutoEncoders, Quantization, Generative Audio, Variational Autoencoders etc.. The

tutorial was be run as a joint activity of TC-SP, TC-CAS and TC-MLAI on Saturday May 7 15:30-17:00 CEST and was very well-attended including good Q&A.

This convention's Heyser Lecture was given by Diemer de Vries with a talk on Wave Field Synthesis at the in-person part of the AES convention in Den Haag.

4) The committee discussed about events that the TC might sponsor or contribute to at the upcoming convention (153rd). The following activities were planned or envisaged for the Coding TC:

- Thomas Sporer had previously proposed a workshop with a general update: "What's going on at MPEG Audio?" It can describe the recent MPEG-I VR/AR Audio development activities and associated Multimodal Quality Assessment work. If run in a live convention, there could be an associated demonstration. Jürgen Herre and/or Thomas Sporer to follow up on this idea.
- Bernd Edler had previously proposed a discussion panel session about Online collaborative music making / jamming / teaching which might cover both collaborative live music making and joint offline music production. This could be a joint activity of TC CAS and TC NAS. Two swiss companies offer services in this field (one is <https://musidoo.com/en> and lets customers book paid music teacher lessons, Jörg Bohner). Christof Faller will contact them to inquire their interest in putting together a workshop or tutorial. In a previous meeting, Thomas Sporer had noted that Alex Carot might also be a good driver or contributor of such an effort (software: soundjack www.soundjack.eu).

5 – AOB: The chair asked whether there are proposals for AES awardees in the audio coding area. He proposed the editor of the "Perceptual Audio Coders - What To Listen For" Web Edition tutorial (S. Dick) to be nominated as a candidate for his incredible amount of diligent work he spent on creating the package.

6/7) The next meeting will happen in conjunction with the 153rd AES convention. The TC meeting was adjourned at 17:53 CEST.

ANNEX 1 – Agenda

AES TC on Coding of Audio Signals
Tue, May 24, 5-6pm CEST / 11-12 EDT
152nd AES Convention Virtual

- 1) Approval of Agenda & Opening Remarks of Chairman
- 2) Status "What To Listen For" tutorial project
- 2) Review of activities for current convention
 - Richard C. Heyser Memorial Lecture Series
 - Other activities
- 3) 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
Sascha Dick	International Audio Laboratories Erlangen
Jan Skoglund	Google
Bernd Edler	International Audio Laboratories Erlangen / Fraunhofer IIS
Christof Faller	Illusonic