

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

1) The meeting was called to order at the 151st AES Convention, Virtually over zoom, at 17:00 CEST, Monday October 18, 2021 by Jürgen Herre, co-chair.

The agenda was approved, as shown in Annex 1. The chair welcomed attendees, shown in Annex 2, and a brief introduction round was conducted.

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 finalization of the TC's "Perceptual Audio Coders - What To Listen For" Web Edition tutorial package and thanked all contributors from the TC and – especially – Sascha Dick for his huge editor effort in putting things together. While the package is available on the web for AES members for free, it regrettably could not yet be made available for non-AES-members through an AES shop facility.

3) Discussing the activities for the current AES convention, Gerald Schuller had followed up on his proposal for 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 is to be run as a joint activity of TC-SP, TC-CAS and TC-MLAI on Tuesday October 19 9PM EDT. Gerald Schuller played a few sound examples from this tutorial to the group.

This convention's Heyser Lecture is given by John Chowning with his second online talk, this time on FM Sound Synthesis.

4) The committee discussed about events that the TC might sponsor or contribute to at the upcoming convention (152<sup>nd</sup>). The following activities were planned or envisaged for the Coding TC:

- Thomas Sporer 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 may follow up on this idea.
- Bernd Edler 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. Thomas Sporer will attempt to contact Alex Carot to see whether he is willing to be the driver of this effort.

6/7) The next meeting will happen in conjunction with the 152<sup>nd</sup> AES convention.  
The TC meeting was adjourned at 18:09 CEST.

## ANNEX 1 – Agenda

AES TC on Coding of Audio Signals

Mon, Oct 18, 5-6pm CEST / 11-12 EDT

151<sup>th</sup> AES Convention Virtual

- 1) Approval of Agenda & Opening Remarks of Chairman
- 2) Status "What To Listen For" tutorial project
- 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.
- 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<br>/ Fraunhofer IIS |
| Sascha Dick           | International Audio Laboratories Erlangen                     |
| Gerald Schuller       | TU Ilmenau                                                    |
| Arijit Biswas         | Dolby Laboratories                                            |
| Karlheinz Brandenburg | TU Ilmenau / Brandenburg Labs                                 |
| Jan Skoglund          | Google                                                        |
| Bernd Edler           | International Audio Laboratories Erlangen<br>/ Fraunhofer IIS |
| Carlos Tejeda         | Samsung                                                       |
| David Prince          |                                                               |
| Jamie Angust          | Emeritus Salford University                                   |
| Thomas Sporer         | Fraunhofer IDMT                                               |