AES Technical Committee on Spatial Audio

Notes from the meeting of the TC at the 146th AES Convention, Dublin

Date: March 20, 2019, 9:00 am — 10:00 am

Attendees:

Allan Devantier	Samsung USA
Todd Welti	Harman
Omid Khonsari	Harman
Fellipe Baldruf	Univ. of West London
Filipe Dias	Univ. of West London
Junichi Yoshio	Pioneer Cooperation
Hedd Morfett-Jones	Morf Audio Ltd
Joe Fitzpatrick	Limerick IT
Charlie DeVane	Mathworks
Steve Nimick	Apple
Thomas Sporer	Fraunhofer IDMT
Jonathan Wyner	Berklee College of Music, IZotope
Tim Cato Netland	NTNU
Audun Solvang	SPOTICS AS
Sigurd Save	SPOTICS AS
Dylan Menzies	Univ. of Southhampton
Jacob Hollebon	Univ. of Southhampton
Pedro Acker Caetano	Univ. of York
Sergio Missoglie	Conservatorio di Como
Enda Bates	Trinity College Dublin
Marcin Gorzel	Google
Piotr Majdak	Austrian Academy of Sciences, Acoustics Research Institute
Toru Kamekawa	Tokyo Univ. of the Arts
Felix Andriessens	Ton und Meister
Per Sjösten	Sound.se
Nils Peters	Qualcomm Technologies

Chair: Nils Peters
Co-chairs: Sascha Spors (excused)

Activities at current AES event:
- spatial music concert

- 3D Ambience recording/microphone techniques
- Workshop on orchestra 3D recording
- less paper contributions for spatial audio, possibly due to AES conference in York next week (see below)

Report from recent Spatial Audio events:

2018 AES International Conference On Spatial Reproduction — Aesthetics And Science, Tokyo
2018 AES International Conference On Audio For Virtual & Augmented Reality, Redmond, US
2019 DAGA - http://2019.daga-tagung.de/en/

Upcoming Spatial Audio events:

- Immersive and Interactive Audio, 2019 International AES Conference, York, UK
  - March 27-29, 2019
  - http://www.aes.org/conferences/2019/immersive/
  - submission deadline: 15th November 2018
- Headphone Technology, 2019 International AES Conference, San Francisco, CA, USA,
  - August 27-29, 2019
  - http://www.aes.org/conferences/2019/headphones/
  - submission deadline: February 11, 2019
- ICSA
  - Ilmenau, Sep. 2019, Germany
  - https://vdt-icsa.de/
- ICA
  - Aachen, Sep. 2019, Germany
  - session on Signal Processing on Spatial Audio
  - http://www.ica2019.org/
  - Satellite Workshop in Paris
    - EAA Spatial Audio Signal Processing Symposium
    - https://sasp2019.ircam.fr/
- next AES convention
  - NYC
  - more training workshops, focusing on techniques

Proposals for Workshops/Tutorials/Special Sessions

ideas from last year:
- Workshop on Evaluation and Assessment of Spatial Audio without Reference (together with TC Perception?)
  - Attendees indicated that TC Perception will do this.
- Workshop on spatial microphones
  - Attendees suggested that Hyunkook Lee might be able to chair this.
- Personalized HRTFs estimation
  - Attendees noted that this would be well attended

- - Must have both pro and con perspectives
    - Patrick Flanagan (ThX), Karlheinz Brandenburg (FhG-IDMT), Yesenia Lacouture Parodi (Huawei) volunteered to work on this.
  - Perceptual tuning of artificial reverbs
    - Karlheinz Brandenburg (FhG-IDMT) will investigate this topic. Wieslaw Woszczyk (McGill University) and Jonas Braasch (RPI) would also be able to help.

  - Workshop on Evaluation and Assessment of Spatial Audio without Reference (together with TC Perception?)
    - Attendees indicated that TC Perception may have a workshop for NYC
    - people are strongly invited to contribute
    - idea is to have a paper session prior such workshop

  - Spatial Audio for AR, 6DOF
  - MPEG-I workshop
  - MPEG-H tutorial
  - Workshop on capturing room information and and apply them into virtual worlds

  - TC members expressed need and interest in AR/VR conference outside of North America
    - proposals for AES conferences for 2020 are still possible

  - better link between conventions and conferences
    - idea having a "best-of conf. session" at the next conventions

Other business

Spatial Audio Glossary
- still work in progress
- Members of the TC are invited to contribute
- please contact Sascha Spors

Awards (Reminder)
- Please submit recommendations for AES awards and fellowships
- further information under www.aes.org/awards

Technical Council Forum (Reminder)
For the TC, a discussion forum is provided on the website of the AES. You can reach the forum via "My Member Portal" when logged in on the AES website or by the direct link https://secure.aes.org/forum/tc/sa/.