

Europe's Fifth

Student 3D Audio Production Competition

a satellite event to TMT (Tonmeister Meeting) 2021

We are happy to announce Europe's Fifth Student 3D Audio Production Competition and call for submissions. As gatherings about spatial audio and audio engineering had been generous hosts of the award ceremonies in the past, IEM will host a virtual meeting in November from Graz, as a satellite event to TMT31 (<https://tonmeistertagung.com>) 2021. We will make available the nominated submissions via the Cat3DA player for head-tracked binaural playback and a video stream of the S3DAPC finals as a satellite event (scheduled for around Friday Nov 19th 2021) over the internet. The S3DAPC finals with the awards ceremony will be the platform to present and celebrate the nominees and their submissions.

We encourage all students who deal with spatial music, spatial recording, or who are interested in spatialized sound to participate by submitting short works to the Fourth Student 3D Audio Production Competition for one of the three categories:

- **Contemporary / Computer music** (11min)
- **Audio drama / Documentary / Soundscapes** (4min)
- **Music recording / Studio production** (4min)

1 Guidelines

In order to make the entry of the competition accessible to everyone, we chose the scene-based format Ambisonics as the required playback format. It allows playback on various loudspeaker layouts, so the jury is able to review the contributions using the 3D playback environment they are familiar with. Other channel-based 3D audio formats can also be easily embedded into Ambisonics. Additionally, binaural renderings of the 3D audio enable a comfortable distribution to a wider audience over the internet. Above all, there is a variety of free tools including DAWs, encoders, effects and decoders and many more for creating high quality 3D audio content.

A list of free tools and a template session in Reaper is provided by the organizers and can be accessed under <https://iaem.at/ambisonics/s3dapc/2021>.

In order to simplify the review process, please use the template session provided with binaural headphone playback and thoroughly follow the step-wise instructions below:

- Use 5th order Ambisonics (36 channels) with the ambiX convention (ACN sorting order, SN3D)
 - only upper hemispherical content is considered for playback
 - 44.1kHz sampling rate and 24bit resolution
- Speech announcements (“front”, “left”, “right”, “rear”, “top”) should be used to sound-check the spatial orientation of the piece
- Room impulse responses of the target playback facility are available (Are they?)
- Duration of contributions to **category 1** should be **11 minutes** maximum
- Duration of contributions to **categories 2 and 3** should be **4 minutes** maximum
- Upload to an online file-sharing link the organizers can access
- Abstract description of the work, title, contents (**max 200 words**)
- Documentation of the work (**at least 3 pages**)

2 The procedure

An international jury of recognized experts in the respective categories (spatial audio recording, computer music, and audio technology) will review the contributions. This jury will select the top-ranked works to be **presented and discussed** at the finals in Nov 2021 and communicate their selection to the authors of the respective works publically.

As **Europe’s Fifth Student 3D Audio Production Competition** is planned to be one of the main social events in the program of the Tonmeistertagung, however as a satellite event, because personal presence is expected to be limited, however including listening spaces with loudspeakers at TMT, where interested visitors can listen on loudspeakers. We will also try to enable breakout listening sessions to organizations with loudspeaker facilities, which are live connected via the live stream, however can listen to the full Ambisonic playback together, locally (2020 breakout listening sessions were held in Helsinki, Zurich, etc.). See <https://tonmeister.org/en/vdt-live/competition-s3dap/> for the past event.

If your work is among the nominees for the top ranks in your category, you will be notified, asked to join the event, and asked to prepare a brief presentation (3-5min) for the virtual ceremony.

3 Awards and presentations at TMT

We plan to award two prizes nominated in category 1 and three prizes nominated in categories 2 and 3, each, to those of the contributors whose works are outstanding in the respective categories. The award ceremony are scheduled to be held online, with more information to appear soon under tonmeistertagung.com, and the prizes will be sponsored by companies offering 3D audio tools and hardware.

4 Eligibility and important notice

Authors of works submitted to the competitions should be able to confirm their enrollment as a student of a university or higher education program. Authors of the respective works will be asked to permit publishing of the works under the creative commons license (CC0 1.0). The idea behind the recording competition is clearly non-commercial, which should technically allow the interested authors to use academic facilities (which are strictly non-commercial).

4 How to submit

Please navigate to <https://easychair.org/conferences/?conf=s3dapc2021> and create an account, if you haven't got one already. Then use the link "*enter as an author*" to add your submission to the event and don't forget to place a download link to your production in the field for the abstract. Submission deadline will be July 15th, 2021.

Best of luck!