Proceedings of the 3ʳᵈ International Workshop on the Internet of Sounds

7 September 2022

Organized by St. Pölten University of Applied Sciences

Papers published on ACM Digital Library

o Borgogno, T., & Turchet, L. (2022). ImproScales: a self-tutoring web system for using scales in improvisations. In *AudioMostly 2022* (pp. 219-225).
  DOI: https://doi.org/10.1145/3561212.3561229

o Sacchetto, M., Huang, Y., Bianco, A., & Rottondi, C. (2022). Using Autoregressive Models for Real-Time Packet Loss Concealment in Networked Music Performance Applications. In *AudioMostly 2022* (pp. 203-210).
  DOI: https://doi.org/10.1145/3561212.3561226

o Cocchiara, D., & Turchet, L. (2022). Democratizing access to collaborative music making over the network using air instruments. In *AudioMostly 2022* (pp. 211-218).
  DOI: https://doi.org/10.1145/3561212.3561227

o Turchet, L., Garau, N., & Conci, N. (2022). Networked Musical XR: where's the limit? A preliminary investigation on the joint use of point clouds and low-latency audio communication. In *AudioMostly 2022* (pp. 226-230).
  DOI: https://doi.org/10.1145/3561212.3561237

o Cadavid, J., Møller, M. B., Bech, S., van Waterschoot, T., & Østergaard, J. (2022). Performance of Low Frequency Sound Zones Based on Truncated Room Impulse Responses. In *AudioMostly 2022* (pp. 239-245).
  DOI: https://doi.org/10.1145/3561212.3561248

o Gabrielli, L., & Turchet, L. (2022). Towards a Sustainable Internet of Sounds. In *AudioMostly 2022* (pp. 231-238).
  DOI: https://doi.org/10.1145/3561212.3561246

Programme

Day 2: September 7th 2022

International Workshop on the Internet of Sounds Session chair: Balandino di Donato	
09:30 – 10:30	9:30 - Keynote: Sacha Krstulovic "DSP as a Service"
14:00 – 14:20	Thomas Borgogno and Luca Turchet - ImproScales: a self-tutoring web system for using scales in improvisations.
14:20 – 14:40	Matteo Sacchetto, Yuen Huang, Andrea Bianco and Cristina Rottondi - Using Autoregressive Models for Real-Time Packet Loss Concealment in Networked Music Performance Applications
14:40 – 15:00	Davide Cocchiara and Luca Turchet - Democratizing access to collaborative music making over the network using air instruments
15:00 – 15:20	Luca Turchet, Nicola Garau and Nicola Conci - Networked Musical XR: where's the limit? A preliminary investigation on the joint use of point clouds and low-latency audio communication
16:00 – 16:20	José Cadavid, Martin Bo Møller, Søren Bech, Toon van Waterschoot and Jan Østergaard - Performance of Low Frequency Sound Zones Based on Truncated Room Impulse Responses
16:20 – 16:40	Leonardo Gabrielli and Luca Turchet - Towards a Sustainable Internet of Sounds
16:40 –17:00	Ove Holmqvist - IWIS Industrial Online Demo: HolonicSystem

3rd International Workshop on the Internet of Sounds
(part of Audio Mostly 2022)

September 7, 2022 - St. Pölten University of Applied Sciences

https://audiomostly.com/2022/call/cfiwis/

Call for papers and demos

After the success of the first two editions, we are pleased to invite the community to submit to the 3rd International Workshop on the Internet of Sounds (IWIS 2022). The Internet of Sounds is an emerging research field positioned at the intersection of the Internet of Things and Sound and Music Computing domains. The workshop will be hosted at the Institute of Creative Media Technology of the St. Pölten University of Applied Sciences (Austria) and will take place on the 7th of September 2022.

The aim of the workshop is to bring together academics and industry to investigate and advance the development of Internet of Sounds technologies by using cutting-edge tools and processes. The event will consist of oral presentations, keynotes, poster presentations, demonstrations, as well as tutorials.

Topics of interest include, but are not limited to, the following areas:

- Networked music performances
- Web Audio for the Internet of Sounds
- Networked Musical XR
- Spatial audio for the Internet of Sounds
- Cloud-based services for musical and audio applications
- Wireless acoustic sensor networks
- Detection and classification of sounds in acoustic sensor networks
- Ecoacoustics
- Privacy and security in acoustic sensor networks
- Smart Musical Instruments
- Musical haptics for the Internet of Musical Things
- Participatory live music performances
- Music education applications for the Internet of Musical Things
- Intelligent music production in Internet of Musical Things contexts
- Ubiquitous music
- Sonification for Internet of Sounds applications
- Protocols and exchange formats for the Internet of Sounds
- Improving accessibility and inclusiveness within the Internet of Sounds
- Open audio databases for Deep Learning and Data Mining
- Challenges in the management and delivery of large audio databases
- Visualization and Sonification of acoustic sensor networks
- Sustainability aspects of the Internet of Sounds

We consider contributions in the form of a full paper (min 5 pages, max 8 pages), a poster paper (4 pages), or a demo proposal (max 2 pages). Authors are welcome to submit to all three tracks. We encourage the submission of work in progress as well as more mature work.

The event is being run alongside the Audio Mostly Conference (https://audiomostly.com/) an interdisciplinary conference taking place between 6 and 9 of September. The participants to the workshop will have access to all the sessions of the Audio Mostly conference.
The paper templates are available at https://audiomostly.com/2022/call/instructions/

Important dates

- Papers and demos submission deadline: April 15, 2022
- Author notification: June 15, 2022
- Camera ready due: July 15, 2022
- Workshop dates: September 7, 2022

Publications

All accepted full papers will appear in the proceedings of the Audio Mostly Conference. They will be included in the ACM Digital Library and will be indexed by Scopus, ACM, Web of Science, and DBLP.

Awards

The Organizing Committee will select the winners for the Best Paper, Best Student Paper and Best Demo awards. To be eligible for the best student paper award, the presenting and first author of the paper must be a full-time student.

Organizing Committee

- Luca Turchet (University of Trento)
- Jan Østergaard (Aalborg University)
- Nils Peters (University of Erlangen-Nuremberg)
- Cristina Rottondi (Polytechnic University of Turin)
- Frederic Font (Pompeu Fabra University)

Logistics

Registration: https://audiomostly.com/2022/info/registration/