



Clarity 2022 Virtual Workshop

The 2nd International Workshop on Machine Learning
Challenges for Hearing Aids

Welcome to the Clarity 2022 Virtual Workshop

Organising committee

- Michael Akeroyd Univ. of Nottingham
- Will Bailey Univ. of Sheffield
- Jon Barker Univ. of Sheffield
- Trevor Cox Univ. of Salford
- John Culling Univ. of Cardiff
- Lara Harris Univ. of Salford
- Graham Naylor Univ. of Nottingham
- Zuza Podwinska Univ. of Salford
- Zehai Tu Univ. of Sheffield



- 5-year project funded by the UK Engineering and Physical Sciences Research Council (EPSRC)
- Started in October 2019 and will run until September 2024
- “Challenges to Revolutionise Hearing Device Processing”
- Purpose of funding is to allow us to run a series of open machine learning challenges targeting hearing aid speech-in-noise processing.

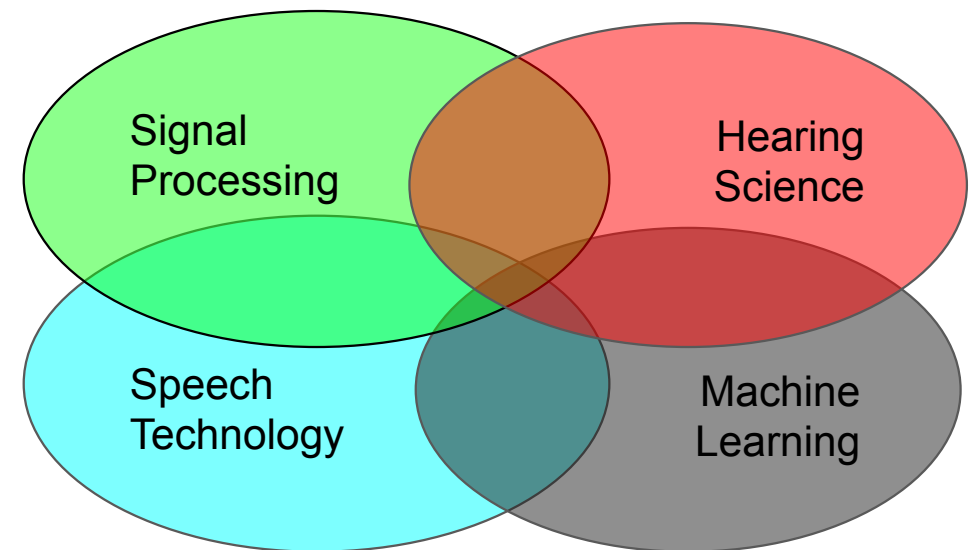


- Background

- By 2035, 15 M with hearing loss in UK; annual economic cost of £30bn, but
- Speech-in-noise remains major problem for hearing aid technology
- Advances in ML have transformed speech technology in last 10 years, e.g., ASR, end-to-end source separation

- Aims

- Bring communities and ideas together through organisation of open 'challenges'
- Broaden base of researchers addressing hearing technology



Sponsors and Supporters



Interspeech 2022, Sept 18-22; Incheon, Korea
Special session on intelligibility prediction for hearing-impaired listeners.

INTERSPEECH 2022

HUMAN AND HUMANIZING SPEECH TECHNOLOGY

September 18 - 22, 2022
Incheon Songdo ConvensiA, Korea



Clarity-2022 Virtual Workshop Overview.

- **11 papers** and one invited talk with contributions from **53 authors**
- Over **117 registered attendees**
- Approx 60% academia and 40% industry / healthcare
- Participants joining from 4 continents and **14 countries**
- Spanning **19 time zones**, from GMT-7 to GMT+12

Overview of the programme

9:00 Welcome
9:10 The Clarity Prediction Overview / Results
9:40 Challenge Papers: Session I
10:40 Break
10:50 Challenge Papers: Session II
11:50 Break
12:00 Challenge Papers: Session III
13:00 Break
13:10 Invited Talk - Theo Goverts, Vrije Universiteit Amsterdam
14:00 Break
14:10 Prizes and conclusions
14:20 CPC discussion + Future Directions
15:00 Close









Clarity Challenge Prizes



Hearing Industry Research Consortium Prize for Best Clarity Prediction Challenge System

Separate prizes available for overall system
performance and student contribution

General prize	Student prize
 1st Place \$1000	 1st Place \$1000
 2nd Place \$500	 2nd Place \$500
 3rd Place \$250	 3rd Place \$250



Student Prize Panel

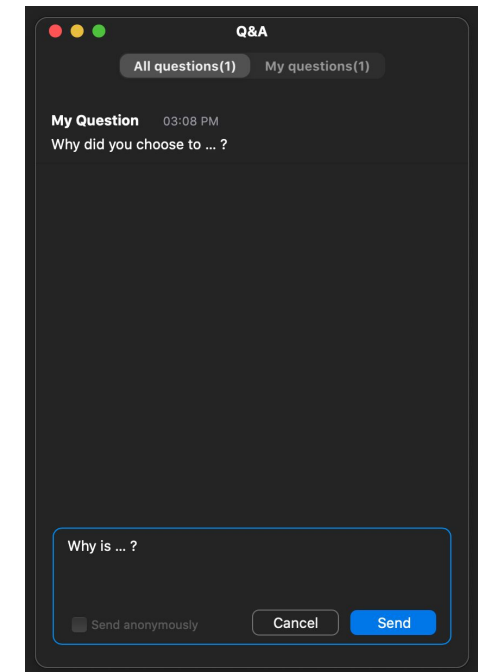
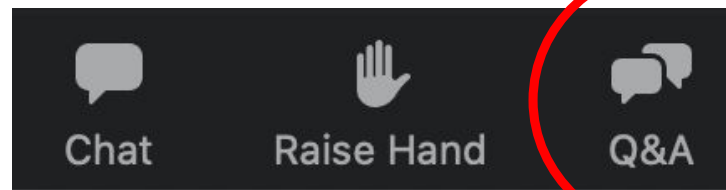
- Clarity Organizers +
- Jesper Boldt, GN Advanced Science
- Tobias Goehring, University of Cambridge
- Chas Pavlovic, BatAndCat Sound Labs
- Kateřina Žmolíková, Brno University of Technology (Winner of previous Clarity student prize)

Prizes will be awarded at the start of the final session, 14:10

Q & A sessions

Two ways to ask questions:

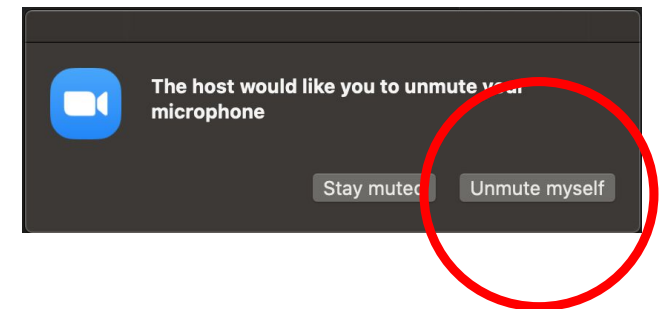
1. Use the Q&A tool to post questions during the talk.



Q & A sessions

Two ways to ask questions:

1. Use the Q&A tool to post questions during the talk.
2. Raise your hand to ask questions live during the discussion sessions.



We value your feedback. We have two feedback forms:

- The Clarity Prediction Challenge (CPC1)
- The Clarity-2022 Workshop

The links will be posted in the chat.

You can also scan the QR codes on the right.



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