TAPAS

Presents the in-person/online congress

Speech technology for pathological speech processing

New insights and results from the European TAPAS training network

Thursday, September 8th, 2022 – 9.00 am to XX pm *

University of Antwerp, Campus Drie Eiken, Building Q

[Campus Drie Eiken | University of Antwerp](#)

* Welcome with coffee from 8.30 am

Morning session
Overview of TAPAS project (max 15 minutes)   *Dr. Mathew Magimai Doss*
Juan Camillo Vasquez (giving a holistic perspective development of Apkinson) 30 minutes with Q&A   *Towards the assessment of patients with neurological disorders using mobile devices. The experience from Apkinson.*
Pathological speech assessment and treatment – part I (each 20 mins incl. Q&A)
Pronunciation software tool with gamification elements for children – Ir. Thomas Rolland   *A new virtual Articulation Therapist – Ir. Viviana Mendoza*   *Efficacy of phonological error detection in speech therapy – Ir. Abdessalem Hammami*
Pathological speech assessment and treatment – part II (each 20 mins incl. Q&A)
Acoustic analysis of speech dimensions in pathological speech – Dr. Timothy Pommée   *Automatic distance scores for measuring speech intelligibility – Ir. Xue Wei*   *Measuring intelligibility in head and neck cancer patients – Ir. Sebastiao Quintas*
Afternoon session
Speech signal-based applications for specific health conditions (each 20 mins incl. Q&A)
Detecting cognitive decline related to dementia – Ir. Yilin Pan   *What speech signals can learn us about respiratory conditions – Ir. Nallanthigal Venkata Srikanth*   *Predicting and synthesising plausible speech examples after oral cancer treatment – Ir. Bence Mark Halpern*

Speech technologies for pathological speech processing (each 20 mins incl. Q&A)	
Assessment of speech production in Cochlear implant patients - Tomas Arias *Advances in dysarthric speech recognition (Combined perspective of Zhengjun and Enno)* *Learning representations for pathological speech processing (Combined perspective of Zhao Ren and Julian Fritsch)*	

Friday September 9th

TAPAS – future perspectives in speech technology based health applications

Morning Session (8.30 am – 12.00 pm) :

Session Chair : collects questions for afternoon session (through chats and end of session)
Presentation type : in person/recording or online presentation

ESRs perspective (1h)

Session chair: Julie

We can coordinate this part with ESRs

	Person	Title
8:30 – 8:40	tbd	tbd
8:40 – 8:50	tbd	tbd
8:50 – 9:00	Wei Xue	Future perspectives on speech intelligibility in practice
9:00 – 9:10	Zhao Ren	Future perspective of computer audition in healthcare
9:10 – 9:20	tbd	tbd

9:30 – 9:45: Coffee break

Clinical perspective (1h)

Session chair: Gwen/Antwerp colleague

9:45 – 9:55	Gwen (UZA) on-site	Future perspectives on assessment and treatment of motor speech disorders
9:55 – 10:05	Maria (LMU) on-site/online	tbd

10:05 – 10:15	Virginie (UPS) – online?	tbd
10:15 – 10:25	Kurt (University of Vienna)	tbd
10:25 – 10:35	Michiel/Rob (NKI)	tbd
10:35 – 10:45	Dan (Sheffield) - online/in-person/recording	tbd

10:45 – 11:00: Coffee break

Technology perspective (1h)

Session chair: Mathew

11:00 - 11:10	Rafa (PD) Zoom recording	Multimodal evaluation of Parkinson's disease: current and future perspectives
11:10 – 11:20	Heidi (AD)	Automatic assessment of cognitive impairment: current and future perspectives
11:20 – 11:30	Aki (Philips)	Speech as a sensing modality in remote patient monitoring and diagnostics
11:30 – 11:40	Finnian (Oxford Wave Research)	tbd
11:40 – 11:50	Swapnil (Therapy Box)	tbd
11:50 – 12:00	Alexander (KST)	tbd
12:00 – 12:10	Felix (Audeering) online	Aspects of detecting covid from voice: a practical approach

Lunch break

Afternoon Session (2-4pm)

Moderators from morning session organise collected questions from the morning

Panel discussion to merge these perspectives (1h)

We will be using Zoom to webcast the presentations. So, we can also potentially invite external participants (incl. Advisory board members) as panel members to hold this part or invite a few of them in-person, if it is possible.

Moderators: Julie, Gwen and Alberto

Panel: tbd how to put the panel members (presenters (on-site and online)) – input/suggestions needed