

# Provisional Program

August 19, 2024

*The program is subject to changes.*

# Sunday 1 September 2024

	Melampus	Akeso	Homer	Syndicate 2.1
9:00 – 12:15	Tutorial 1 Seamless Communication: Towards a Universal Translation System	Tutorial 2 Neural Speech and Audio Coding	Tutorial 3 Responsible Development and Translation of Clinical Speech Analytics	Tutorial 4 Embracing Inclusivity: Bridging Gaps, Breaking Barriers, and Beyond Challenges in developing real-time embedded conversational AI for assistive technology
12:15 – 13:45	Break			
13:45 – 17:00	Tutorial 7 Intracortical Brain-Computer Interface (iBCI) Speech Neuro-prosthesis Foundations and Techniques	Tutorial 6 Recent Advances in Speech Language Models	Tutorial 3 Responsible Development and Translation of Clinical Speech Analytics	Tutorial 8 Optimal transport (OT) in speech: OT meets speech

# Monday 2 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	Iasso	Melampus	Poster Area 1A	Poster Area 1B	Poster Area 2A
09:00 – 10:00	Opening Ceremony [Hippocrates]									
10:00 – 11:00	Keynote 1 [Hippocrates] - Isabel Trancoso									
11:00 – 11:30	Break									
11:30 – 13:30	A9-O1 Decoding Algorithms	A1-O1 L2 Speech, Bilingualism and Code-Switching	A5-O2 Detection and Classification of Bioacoustic Signals	A7-O1 Speech Synthesis: Voice Conversion 1	A4-O1 Speaker Diarization 1	A10-O1 Pronunciation Assessment	A6-O1 Acoustic Echo Cancellation	A8-P1 Neural Network Architectures for ASR 2		A5-P1-A Speech and Audio Analysis and Representations
13:30 – 15:00	Break									
15:00 – 17:00	A8-O1 Noise Robustness, Far-Field, and Multi-Talker ASR	A2-O1 Individual and Social Factors in Phonetics	A5-O1 Audio Event Detection and Classification 1	A7-O2 Zero-shot TTS	A3-O1 Paralinguistics	A11-O1 Spoken Language Understanding	A12-O1 Spoken Machine Translation 1	A13-P1-A Hearing Disorders	A13-P1-B Speech Disorders 2	A4-P1 Speaker Recognition: Adversarial and Spoofing Attacks
17:00 – 17:30	Break									
17:30 – 19:00		GA ISCA General Assembly								
19:00 – 20:30	Welcome Reception									

	Poster Area 2B	Poster Area 3A	Poster Area 3B	Poster Area 4A	Poster Area 4B	Yanis Club	Exhibition
09:00 – 10:00	<b>Opening Ceremony [Hippocrates]</b>						
10:00 – 11:00	<b>Keynote 1 [Hippocrates] - Isabel Trancoso</b>						
11:00 – 11:30	Break						
11:30 – 13:30	A5-P1-B Acoustic Event Detection and Classification 2	A12-P1-A Spoken Language Processing	A12-P1-B Spoken Machine Translation 2	SS2 Biosignal- enabled Spoken Com- munication			
13:30 – 15:00	Break						
15:00 – 17:00	A5-P2-B Source Separation 2	A9-P1 Contextual Biasing and Adaptation		A6-P1-A Noise Reduction, Dereverbera- tion, and Echo Cancellation	A6-P1-B Computationally Efficient Speech Enhancement	SS13 TAUKADIAL Challenge: Speech-Based Cognitive Assessment in ... Session)	ST1 Show and Tell 1
17:00 – 17:30	Break						
17:30 – 19:00							
19:00 – 20:30	<b>Welcome Reception</b>						

# Tuesday 3 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	Iasso	Melampus	Poster Area 1A	Poster Area 1B	Poster Area 2A
08:30 – 09:30	Keynote 2 [Hippocrates] - Shoko Araki									
09:30 – 10:00	Break									
10:00 – 12:00	A7-O3 Speech Synthesis: Evaluation	A13-O1 Pathological Speech Analysis 1	A2-O2 Phonetics and Phonology of Second Language Acquisition	A4-O2 Spoofing and Deepfake Detection		A8-O2 Multilingual ASR	A6-O2 Generative Speech Enhancement	A3-P1-A Corpora- based Approaches in Automatic Emotion Recognition	A3-P1-B Analysis of Speakers States and Traits	A5-P2-A Audio Captioning, Tagging, and Audio-Text Retrieval
12:00 – 13:30	Break									
13:30 – 15:30	A7-O4 Speech Synthesis: Singing Voice Synthesis	A5-O3 Audio-Text Retrieval	A1-O2 Speech and Brain	A3-O2 Emotion Recognition: Resources and Benchmarks	A9-O2 Vision and Speech	A8-O3 LLM in ASR	A12-O2 Spoken Document Summariza- tion	A2-P1 Innovative Methods in Phonetics and Phonology	A2-P1-B Voice, Tones and F0	A4-P2 Speaker and Language Identification and Diarization
15:30 – 16:00	Break									
16:00 – 18:00	A7-O5 Speech Synthesis: Prosody	A5-O4 Source Separation 1	A2-O3 Prosody	A4-O3 Foundational Models for Deepfake and Spoofed Speech Detection	A10-O2 ASR and LLMs	A8-O4 Neural Network Adaptation	SS10 Speech Processing Using Discrete Speech Units (Special Session)	A13-P2-A Pathological Speech Analysis 3	A13-P2-B Speech Disorders 3	A8-P3 Accented Speech, Prosodic Features, Dialect, Emotion, Sound Classification
19:00 – 21:00	Student Evening / Reviewer Reception									

	Poster Area 2B	Poster Area 3A	Poster Area 3B	Poster Area 4A	Poster Area 4B	Yanis Club	Exhibition
08:30 – 09:30	Keynote 2 [Hippocrates] - Shoko Araki						
09:30 – 10:00	Break						
10:00 – 12:00		A8-P2 General Topics in ASR		A12-P2-A Spoken Language Understand- ing	A12-P2-B Speech and Multimodal Resources	SS5A Speech and Language in Health: from ... Session)	
12:00 – 13:30	Break						
13:30 – 15:30		A6-P2-A Speech Enhancement	A6-P2-B Speech Coding	A7-P1-A Speech Synthesis: Expressivity and Emotion	A7-P1-B Speech Synthesis: Tools and Data	SS5B Speech and Language in Health: from ... Sessions)	ST2 Show and Tell 2
15:30 – 16:00	Break						
16:00 – 18:00		A6-P3-A Audio-Visual and Generative Speech Enhancement	A6-P3-B Speech Privacy and Bandwidth Expansion	A4-P3 Speaker Recognition 1		SS9 Speech Recognition with Large Pretrained Speech ... Session)	
19:00 – 21:00	Student Evening / Reviewer Reception						

# Wednesday 4 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	Iasso	Melampus	Poster Area 1A	Poster Area 1B	Poster Area 2A
08:30 – 09:30	<b>Keynote 3 [Hippocrates] - Elmar Nöth</b>									
09:30 – 10:00	Break									
10:00 – 12:00	A9-O3 Novel Architectures for ASR	A13-O2 Pathological Speech Analysis 2	A4-O4 Self-Supervised Models in Speaker Recognition	A6-O3 Privacy and Security in Speech Communication 1	A5-O5 Speech Quality Assessment	A3-O3 Speech Emotion Recognition	A11-O2 Spoken Dialogue Systems and Conversational Analysis 1	A1-P1-A Databases and Progress in Methodology	A1-P1-B Articulation, Convergence and Perception	A8-P4 Training Methods, Self-Supervised Learning, Adaptation
12:00 – 13:30	Break									
13:30 – 15:30	A8-O5 Neural Network Architectures for ASR 1	A1-O3 Speech Production and Perception	A2-O4 Phonetics and Phonology: Segmentals and Suprasegmentals	A6-O4 Multi-Channel Speech Enhancement	A9-O4 Error Correction and Rescoring	A4-O5 Speaker Verification	A5-O6 Speech and Audio Modelling	A3-P2 Topics in Paralinguistics	A3-P2-B Emotion Recognition: Fairness, Variability, Uncertainty	A5-P3-A Spatial Audio and Acoustics
15:30 – 16:00	Break									
16:00 – 18:00	A8-O6 ASR Model Training Methods	A13-O3 Dysarthric Speech Assessment	A5-O7 Speech and Audio Analysis	A6-O5 Speech Quality and Intelligibility: Prediction and Enhancement	A10-O3 Speech Assessment	A3-O4 New Avenues in Emotion Recognition	A7-O6 Speech Synthesis: Vcoders	A4-P4-A Speaker Diarization 2	A4-P4-B Speaker Recognition 2	A9-P2 Cross-Lingual and Multilingual Processing
19:30 – 00:00	<b>Banquet</b>									

	Poster Area 2B	Poster Area 3A	Poster Area 3B	Poster Area 4A	Poster Area 4B	Yanis Club	Exhibition
08:30 – 09:30	<b>Keynote 3 [Hippocrates] - Elmar Nöth</b>						
09:30 – 10:00	Break						
10:00 – 12:00		A10-P1 Multimodality and Foundation Models	A12-P4 Speech Technology	A7-P2-A Speech Synthesis: Voice Conversion 2	A7-P2-B Speech Synthesis: Text Processing	SS1 Speech Science, Speech Technology, and Gender (Special Session)	
12:00 – 13:30	Break						
13:30 – 15:30	A5-P3-B Generative Models for Speech and Audio	A11-P1-A Spoken Language Understand- ing	A11-P1-B Spoken Dialogue Systems and Conversa- tional Analysis 2	A7-P3-A Speech Synthesis: Paradigms and Methods 1	A7-P3-B Speech Synthesis: Paradigms and Methods 2	SS3 Computational Models of Human Language Acquisition, ... Session)	ST3 Show and Tell 3
15:30 – 16:00	Break						
16:00 – 18:00		A11-P2-A Question Answering from Speech and Spoken Dialogue Systems	A11-P2-B Spoken Dialogue Systems and Conversa- tional Analysis 3	A2-P2-A Phonetics, Phonology and Prosody	A2-P2-B Segmentals	SS6 Spoken Language Models for Universal Speech ... Session)	
19:30 – 00:00	<b>Banquet</b>						



# Thursday 5 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	lasso	Melambus	Poster Area 1A	Poster Area 1B	Poster Area 2A
08:30 – 09:30	Keynote 4 [Hippocrates] - Barbara Tillmann									
09:30 – 10:00	Break									
10:00 – 12:00	A2-O5 Experimental Phonetics and Laboratory Phonology	A5-O8 Speech Type Classification	SS4 Leveraging Large Language Models and Contextual ... Session)	A7-O7 Privacy and Security in Speech Com- munication 2	A8-O7 Streaming ASR	A4-O6 Speaker recognition evaluation and resources	A6-O6 Target Speaker Extraction	A1-P2-A L1/L2 Acquisition and Cross- Linguistic Factors	A1-P2-B Speaker Stance, Emotion and Language- External Factors	A9-P3 Computational Resource Constrained ASR
12:00 – 13:30	Break									
13:30 – 15:30	A13-O4 Speech Disorders 1	A5-O9 Fake Audio Detection	A12-O3 Spoken Term Detection and Speech Retrieval	A7-O8 Speech synthesis: Cross-lingual and multilingual aspects	A8-O8 Self- Supervised Learning for ASR	A4-O7 Self and Weakly- Labelled Speaker Verification	A6-O7 Deep Learning- Based Speech Enhancement: Approaches, Scalability, and Evaluation	A3-P3-A Multimodal Para- linguistics	A3-P3-B Automatic Emotion Recognition	A5-P4-A Acoustic Event Detection, Segmentation and Classification
15:30 – 16:00	Break									
16:00 – 17:00	Closing Ceremony [Hippocrates]									

	Poster Area 2B	Poster Area 3A	Poster Area 3B	Poster Area 4A	Poster Area 4B	Yanis Club	Exhibition
08:30 – 09:30	<b>Keynote 4 [Hippocrates] - Barbara Tillmann</b>						
09:30 – 10:00	Break						
10:00 – 12:00		A12-P3-A Evaluation of Speech Technology Systems	A12-P3-B Neural Network Training for Speech Recognition	A7-P4-A Speech Synthesis: Voice Conversion 3	A7-P4-B Speech Synthesis: Paradigms and Methods 3	SS7 Responsible Speech Foundation Models (Special Session)	
12:00 – 13:30	Break						
13:30 – 15:30	A5-P4-B Speech and Audio Modelling	A7-P5-A Speech Synthesis: Other Topics 1	A7-P5-B Speech Synthesis: Other Topics 2	A8-P5 Noise, Far-Field, Multi-Talker, Enhancement, Audio Classification		SS8 Connecting Speech- science and Speech- technology for Children's ... Session)	ST4 Show and Tell 4
15:30 – 16:00	Break						
16:00 – 17:00	<b>Closing Ceremony [Hippocrates]</b>						

# Program Schedule



# Monday 2 September 2024

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## Opening - Opening Ceremony

CEREMONY 📍 Hippocrates

📅 Monday 02 September 2024 ⌚  
09:00–10:00 **Session chairs :**

### Keynote 1 - Isabel Trancoso

**Towards Responsible Speech Processing**

📍 Hippocrates

📅 Monday 02 September 2024 ⌚  
10:00–11:00

## A9-O1 - Decoding Algorithms

ORAL 📍 Hippocrates

📅 Monday 02 September 2024 ⌚  
11:30–13:30 **Session chairs :** Ralf Schlüter,  
Matthew Wiesner

⌚ 11:30–11:50 **Towards Effective and Efficient Non-autoregressive Decoding Using Block-based Attention Mask**

Tianzi Wang (The Chinese University of HongKong); Xurong Xie (Institute of Software, Chinese Academy of Sciences); Zhaoqing Li (The Chinese University of Hong Kong); Shoukang Hu (Nanyang Technological University); Zengrui Jin (The Chinese University of Hong Kong); Jiajun Deng (The Chinese University of HongKong); Mingyu Cui; Shujie Hu; Mengzhe Geng (The Chinese University of Hong Kong); Guinan Li (Chinese University of HongKong); Helen Meng; Xunying Liu (The Chinese University of Hong Kong)

⌚ 11:50–12:10 **E-Paraformer: A Faster and Better Parallel Transformer for Non-autoregressive End-to-End Mandarin Speech Recognition**

Kun Zou; Fengyun Tan (PingAn Technology); Ziyang Zhuang; Chenfeng Miao; Tao Wei (Ping An Technology); Shaodan Zhai (Coupang); Zijian Li (Georgia Institute Technology); Wei Hu (Ping An Technology); Shaojun

Wang (PAII Inc.); Jing Xiao (Ping An Insurance (Group) Company of China)

⌚ 12:10–12:30 **Beam-search SIEVE for low-memory speech recognition**

Martino Ciaperoni (Aalto University); Athanasios Katsamanis ("ATHENA R.C., Behavioral Signal Technologies"); Aristides Gionis (KTH Royal Institute of Technology); Panagiotis Karras (University of Copenhagen)

⌚ 12:30–12:50 **Speed of Light Exact Greedy Decoding for RNN-T Speech Recognition Models on GPU**

Daniel Galvez (NVIDIA); Vladimir Bataev (NVIDIA, University of London); Hainan Xu; Tim Kaldewey (NVIDIA)

⌚ 12:50–13:10 **Contextual Biasing with the Knuth-Morris-Pratt Matching Algorithm**

Weiran Wang (Google); Zelin Wu (Google LLC); Diamantino Caseiro (Google); Tsendsuren Munkhdalai (Google LLC); Khe Chai Sim (Google Inc.); Pat Rondon; Golan Pundak; Gan Song; Rohit Prabhavalkar; Zhong Meng; Ding Zhao; Tara N. Sainath; Yanzhang He; Pedro Moreno Mengibar (Google)

⌚ 13:10–13:30 **Text-only Domain Adaptation for CTC-based Speech Recognition through Substitution of Implicit Linguistic Information in the Search Space**

Tatsunari Takagi; Yukoh Wakabayashi (Toyohashi University of Technology); Atsunori Ogawa (NTT Corporation); Norihide Kitaoka (Toyohashi University of Technology)

## A7-O1 - Speech Synthesis: Voice Conversion 1

ORAL 📍 Aegle A

📅 Monday 02 September 2024 ⌚  
11:30–13:30 **Session chairs :** Tomoki Toda,  
Pirros Tsiakoudis

⌚ 11:30–11:50 **Spatial Voice Conversion: Voice Conversion Preserving Spatial Information and Non-target Signals**

Kentaro Seki; Shinnosuke Takamichi; Norihiro Takamune (the University of Tokyo); Yuki Saito ("The University of Tokyo, Japan"); Kanami Imamura; Hiroshi Saruwatari (The University of Tokyo)



🕒 11:50–12:10 **Neural Codec Language Models for Disentangled and Textless Voice Conversion**

*Alan Baade; Puyuan Peng; David Harwath (The University of Texas at Austin)*

🕒 12:10–12:30 **Fine-Grained and Interpretable Neural Speech Editing**

*Max Morrison; Cameron Churchwell; Nathan Pruyne; Bryan Pardo (Northwestern University)*

🕒 12:30–12:50 **FastVoiceGrad: One-step Diffusion-Based Voice Conversion with Adversarial Conditional Diffusion Distillation**

*Takuhiro Kaneko (NTT Corporation); Hirokazu Kameoka (NTT Communication Science Laboratories, NTT Corporation); Kou Tanaka (NTT Corporation); Yuto Kondo (NTT)*

🕒 12:50–13:10 **DualVC 3: Leveraging Language Model Generated Pseudo Context for End-to-end Low Latency Streaming Voice Conversion**

*Ziqian Ning (Northwestern Polytechnical University); Shuai Wang (Shenzhen Research Institute of Big Data, Chinese University of Hong Kong (Shenzhen)); Pengcheng Zhu (Fuxi AI Lab, NetEase Inc.); Zhichao Wang; Jixun Yao (Northwestern Polytechnical University); Lei Xie (NWPU); Mengxiao Bi (NetEase Fuxi AI Lab)*

🕒 13:10–13:30 **Towards Realistic Emotional Voice Conversion using Controllable Emotional Intensity**

*Tianhua Qi; Shiyang Wang; Cheng Lu; Yan Zhao; Yuan Zong; Wenming Zheng (Southeast University)*

**A6-O1 - Acoustic Echo Cancellation**

ORAL 📍 Melampus

📅 Monday 02 September 2024 🕒

11:30–13:30 **Session chairs** : Tim Fingscheidt, Premanand Vinayak Nayak

🕒 11:30–11:50 **Multi-mic Echo Cancellation Coalesced with Beamforming for Real World Adverse Acoustic Conditions**

*Premanand Nayak; Kamini Sabu; M. Ali Basha Shaik (Samsung Research and Development Institute - Bangalore, India)*

🕒 11:50–12:10 **Interference Aware Training Target for DNN based joint Acoustic Echo Cancellation and Noise Suppression**

*Vahid Khanagha; Dimitris Koutsaidis; Kaustubh Kalganekar; Sriram Srinivasan (Meta)*

🕒 12:10–12:30 **Low Complexity Echo Delay Estimator Based on Binarized Feature Matching**

*Yi Gao (Tencent Chengdu Branch); Xiang Su (Tencent Chengdu Branch)*

🕒 12:30–12:50 **MSA-DPCRn: A Multi-Scale Asymmetric Dual-Path Convolution Recurrent Network with Attentional Feature Fusion for Acoustic Echo Cancellation**

*Ye Ni; Cong Pang (Southeast University); Chengwei Huang (Zhejiang Lab); Cairong Zou (Southeast University)*

🕒 12:50–13:10 **Efficient Joint Beamforming and Acoustic Echo Cancellation Structure for Conference Call Scenarios**

*Ofer Schwartz (CEVA Ltd.); Sharon Gannot (Bar-Ilan University)*

🕒 13:10–13:30 **SDAEC: Signal Decoupling for Advancing Acoustic Echo Cancellation**

*Fei Zhao (School of Computer Science, Inner Mongolia University); Jinjiang Liu (College of Computer Science, Inner Mongolia University); Xueliang Zhang (Inner Mongolia University)*

**A4-O1 - Speaker Diarization 1**

ORAL 📍 Aegle B

📅 Monday 02 September 2024 🕒

11:30–13:30 **Session chairs** : Hervé Bredin, Shuai Wang

🕒 11:30–11:50 **Investigating Confidence Estimation Measures for Speaker Diarization**

*Anurag Chowdhury; Abhinav Misra; Mark C. Fuhs; Monika Woszczyna (Solventum)*

🕒 11:50–12:10 **Speakers Unembedded: Embedding-free Approach to Long-form Neural Diarization**

*Xiang Li; Vivek Govindan; Rohit Paturi; Sundararajan Srinivasan (AWS AI Labs)*

🕒 12:10–12:30 **On the Success and Limitations of Auxiliary Network Based Word-Level End-to-End Neural Speaker Diarization**

*Yiling Huang; Weiran Wang; Guanlong Zhao; Hank Liao; Wei Xia; Quan Wang (Google)*

🕒 12:30–12:50 **EEND-M2F: Masked-attention mask transformers for speaker diarization**

*Marc Härkönen; Samuel J. Broughton; Lahiru Samarakoon (Fano Labs)*

🕒 12:50–13:10 **AFL-Net: Integrating Audio, Facial, and Lip Modalities with a Two-step Cross-attention for Robust Speaker Diarization in the Wild**

*YongKang Yin (Peking University); Xu Li; Ying Shan (Tencent); Yuexian Zou (Peking University)*

🕒 13:10–13:30 **Exploiting Wavelet Scattering Transform for an Unsupervised Speaker Diarization in Deep Neural Network Framework**

*Arunav Arya (IIT Jammu); Murtiza Ali; Karan Nathwani (Indian Institute of Technology, Jammu)*

**A10-O1 - Pronunciation Assessment**

ORAL 📍 issimo

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs :**

🕒 11:30–11:50 **Pitch-Aware RNN-T for Mandarin Chinese Mispronunciation Detection and Diagnosis**

*Xintong Wang; Mingqian Shi; Ye Wang (National University of Singapore)*

🕒 11:50–12:10 **MultiPA: A Multi-task Speech Pronunciation Assessment Model for Open Response Scenarios**

*Yu-Wen Chen; Zhou Yu; Julia Hirschberg (Columbia University)*

🕒 12:10–12:30 **A Framework for Phoneme-Level Pronunciation Assessment Using CTC**

*Xinwei Cao; Zijian Fan; Torbjørn Svendsen; Giampiero Salvi (NTNU)*

🕒 12:30–12:50 **Phonological-Level Mispronunciation Detection and Diagnosis**

*Mostafa Shahin (UNSW); Beena Ahmed (School of Electrical Engineering and Telecommunications, UNSW Australia)*

🕒 12:50–13:10 **Acoustic Feature Mixup for Balanced Multi-aspect Pronunciation Assessment**

*Heejin Do; Wonjun Lee; Gary Geunbae Lee (Postech)*

🕒 13:10–13:30 **Automated content assessment and feedback for Finnish L2 learners in a picture description speaking task**

*Nhan Phan (Aalto University); Anna von Zansen (University of Helsinki); Maria Kautonen (University of Jyväskylä); Ekaterina Voskoboinik; Tamas Grosz (Aalto University); Raili Hilden (University of Helsinki); Mikko Kurimo (Aalto University)*

**A1-O1 - L2 Speech, Bilingualism and Code-Switching**

ORAL 📍 Panacea Amphitheater

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs :** Katalin Mády, Anisia Popescu

🕒 11:30–12:10 - Survey Talk

**Second language (L2) speech and perception**

*Ann Bradlow (Northwestern University)*

🕒 12:10–12:30 **The influence of L2 accent strength and different error types on personality trait ratings**

*Sarah Wesolek (Leibniz-Centre General Linguistics); Piotr Gulgowski; Joanna Blaszczak (University of Wrocław); Marzena Zygis (Leibniz-ZAS)*

🕒 12:30–12:50 **Characterizing code-switching: Applying Linguistic Principles for Metric Assessment and Development**

*Jie Chi; Electra Wallington; Peter Bell (University of Edinburgh)*

🕒 12:50–13:10 **Towards a better understanding of receptive multilingualism: listening conditions and priming effects**

*Wei Xue (Saarland University); Ivan Yuen (Saarland University); Bernd Möbius (Saarland University)*

🕒 13:10–13:30 **2.5D Vocal Tract Modeling: Bridging Low-Dimensional Efficiency with 3D Accuracy**

*Debasish Ray Mohapatra (University of British Columbia); Victor Zappi (Northeastern University); Sidney Fels (University of British Columbia)*

**A5-O2 - Detection and Classification of Bioacoustic Signals**

ORAL 📍 Acesso

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs : Tanja Schultz**

🕒 11:30–11:50 **Vision Transformer Segmentation for Visual Bird Sound Denoising**

*Sahil Kumar (Yeshiva university); Jialu Li (Cornell University); Youshan Zhang (Yeshiva University)*

🕒 11:50–12:10 **DB3V: A Dialect Dominated Dataset of Bird Vocalisation for Cross-corpus Bird Species Recognition**

*Xin Jing (Technische Universität München); Luyang Zhang; Jiangjian Xie (Beijing forestry university); Alexander Gebhard (Technical University of Munich); Alice Baird (Hume AI); Björn W. Schuller (Imperial College London)*

🕒 12:10–12:30 **Multi-label Bird Species Classification from Field Recordings using Mel\_-Graph-GCN Framework**

*Noumida A (College Of Engineering Trivandrum); Rajeev Rajan (Government Engineering College, Barton Hill, Trivandrum)*

🕒 12:30–12:50 **Investigating self-supervised speech models' ability to classify animal vocalizations: The case of gibbon's vocal signatures**

*Jules Cauzinille (ILCB); Benoît Favre (Lab. Informatique et Systèmes / Aix-Marseille University / CNRS); Ricard Marxer (Université de Toulon, Aix Marseille Univ, CNRS, LIS, Toulon); Dena Clink (Cornell University); Abdul Hamid Ahmad (Universiti Malaysia Sabah); Arnaud Rey (Centre de Recherche en Psychologie et Neurosciences, Aix Marseille Univ, CNRS)*

🕒 12:50–13:10 **Study Selectively: An Adaptive Knowledge Distillation based on a Voting Network for Heart Sound Classification**

*Xihang Qiu; Lixian Zhu; Zikai Song (Beijing Institute of Technology); Zeyu Chen (Nanjing University of Aeronautics and Astronautics); Haojie Zhang; Kun Qian (Beijing Institute of Technology); Ye Zhang (Shenzhen MSU-BIT University); Bin Hu (Beijing Institute of Technology); Yoshiharu Yamamoto (The University of Tokyo); Björn W. Schuller (Imperial College London)*

🕒 13:10–13:30 **SimuSOE: A Simulated Snoring Dataset for Obstructive Sleep Apnea-Hypopnea Syndrome Evaluation during Wakefulness**

*Jie Lin (Wuhan University); Xiuping Yang (Zhongnan Hospital of Wuhan University); Li Xiao (School of Computer Science, Wuhan University); Xinhong Li; Weiyan Yi; Yuhong Yang; Weiping Tu (Wuhan University); Xiong Chen (Zhongnan Hospital of Wuhan University)*

**A8-P1 - Neural Network Architectures for ASR 2**

POSTER 📍 Poster Area 1A

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs :**

🕒 11:30–13:30 **InterBiasing: Boost Unseen Word Recognition through Biasing Intermediate Predictions**

*Yu Nakagome (LINE WORKS); Michael Hentschel (LINE WORKS Corporation)*

🕒 11:30–13:30 **SEQ-former: A context-enhanced and efficient automatic speech recognition framework**



Qinglin Meng; Min Liu (Mashang Consumer Finance Co.,Ltd.); Kaixun Huang (NWPU); Kun Wei (School of Computer Science, Northwestern Polytechnical University); Lei Xie (NWPU); Zongfeng Quan; Weihong Deng; Quan Lu (Mashang Consumer Finance Co.,Ltd.); Ning Jiang (Mashang Consumer Finance Co., Ltd.); Guoqing Zhao (Mashang Consumer Finance Co., Ltd)

🕒 11:30–13:30 **How Much Context Does My Attention-Based ASR System Need?**

Robert Flynn (Sheffield University); Anton Ragni (University of Sheffield)

🕒 11:30–13:30 **Rich speech signal: exploring and exploiting end-to-end automatic speech recognizers' ability to model hesitation phenomena**

Vincenzo Norman Vitale; Loredana Schettino (University of Naples "Federico II"); Francesco Cutugno (University of Naples Federico II)

🕒 11:30–13:30 **Transmitted and Aggregated Self-Attention for Automatic Speech Recognition**

Tian-Hao Zhang (University of Science and Technology Beijing); Xinyuan Qian (USTB); Feng Chen (EEasy Technology Co. LTD); Xu-Cheng Yin (University of Science and Technology Beijing)

🕒 11:30–13:30 **MULTI-CONVFORMER: Extending Conformer with Multiple Convolution Kernels**

Darshan Prabhu (Indian Institute of Technology, Bombay); Yifan Peng (Carnegie Mellon University); Preethi Jyothi (Indian Institute of Technology Bombay); Shinji Watanabe (Carnegie Mellon University)

🕒 11:30–13:30 **Exploring the Capability of Mamba in Speech Applications**

Koichi Miyazaki (CyberAgent, Inc.); Yoshiki Masuyama (Tokyo Metropolitan University); Masato Murata (CyberAgent, Inc.)

🕒 11:30–13:30 **Robust Voice Activity Detection using Locality-Sensitive Hashing and Residual Frequency-Temporal Attention**

Shu Li; Peng Zhang (Shandong Computer Science Center (National Supercomputer Center in Jinan), Qilu University of Technology); Ye Li (Shandong Provincial Key

Laboratory of Computer Networks, Shandong Computer Science Center, Qilu University of Technology)

🕒 11:30–13:30 **Lightweight Transducer Based on Frame-Level Criterion**

Genshun Wan (University of Science and Technology of China); Mengzhi Wang; Tingzhi Mao (iFLYTEK Research.); Hang Chen; Zhongfu Ye (University of Science and Technology of China)

🕒 11:30–13:30 **Exploring the limits of decoder-only models trained on public speech recognition corpora**

Ankit Gupta (IBM Research); George Saon (IBM); Brian Kingsbury (IBM Research)

🕒 11:30–13:30 **Contextual Biasing Speech Recognition in Speech-enhanced Large Language Model**

Xun Gong (Shanghai Jiao Tong University); Anqi Lv; Zhiming Wang (AntGroup); Yanmin Qian (Shanghai Jiao Tong University)

**A5-P1-B - Acoustic Event Detection and Classification 2**

POSTER 📍 Poster Area 2B

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs : Shrikanth Narayanan, Janek Ebbers**

🕒 11:30–13:30 **Improving Audio Classification with Low-Sampled Microphone Input: An Empirical Study Using Model Self-Distillation**

Dawei Liang; Alice Zhang (UT Austin); David Harwath; Edison Thomaz (The University of Texas at Austin)

🕒 11:30–13:30 **MFF-EINV2: Multi-scale Feature Fusion across Spectral-Spatial-Temporal Domains for Sound Event Localization and Detection**

Da Mu; Zhicheng Zhang; Haobo Yue (Beijing University of Posts and Telecommunications)

🕒 11:30–13:30 **Diversifying and Expanding Frequency-Adaptive Convolution Kernels for Sound Event Detection**

Hyeonuk Nam; Seong-Hu Kim (KAIST); Deokki Min (Korea Advanced Institute of Science and Technology (KAIST)); Junhyeok Lee (Supertone Inc.); Yong-Hwa Park (Kaist)

**11:30–13:30 Stream-based Active Learning for Anomalous Sound Detection in Machine Condition Monitoring**

Tuan Vu Ho (Hitachi, Ltd.); Kota Dohi (Hitachi Ltd.); Yohei Kawaguchi (Hitachi, Ltd.)

**11:30–13:30 AnoPatch: Towards Better Consistency in Machine Anomalous Sound Detection**

Anbai Jiang (Tsinghua University); Bing Han (Shanghai Jiao Tong University); Zhiqiang Lv; Yufeng Deng (Huakong AI Plus); Wei-Qiang Zhang (Tsinghua University); Xie Chen (Shanghai Jiaotong University); Yanmin Qian (Shanghai Jiao Tong University); Jia Liu; Pingyi Fan (Tsinghua University)

**11:30–13:30 FakeSound: Deepfake General Audio Detection**

Zeyu Xie; Baihan Li; Xuenan Xu; Zheng Liang; Kai Yu; Mengyue Wu (Shanghai Jiao Tong University)

**11:30–13:30 Sound of Traffic: A Dataset for Acoustic Traffic Identification and Counting**

Shabnam Ghaffarzadegan (BOSCH Research North America); Luca Bondi; Wei-Chang Lin (Bosch Research); Abinaya Kumar (BOSCH Research North America); Ho-Hsiang Wu (Bosch Research); Hans-Georg Horst (Robert Bosch GmbH); Samarjit Das (Bosch Research)

**A5-P1-A - Speech and Audio Analysis and Representations**

**POSTER** 📍 **Poster Area 2A**

📅 Monday 02 September 2024 ⌚  
11:30–13:30 **Session chairs : Kun Qian**

**11:30–13:30 MINT: Boosting Audio-Language Model via Multi-Target Pre-Training and Instruction Tuning**

Hang Zhao (ByteDance Inc.); Yifei Xin (Peking University); Zhesong Yu; Bilei Zhu (ByteDance AI Lab); Lu Lu; Zejun Ma (Bytedance)

**11:30–13:30 M2D-CLAP: Masked Modeling Duo Meets CLAP for Learning General-purpose Audio-Language Representation**

Daisuke Niizumi; Daiki Takeuchi; Yasunori Ohishi (NTT Corporation); Noboru Harada; Masahiro Yasuda (NTT); Shunsuke Tsubaki; Keisuke Imoto (Doshisha University)

**11:30–13:30 Audio Fingerprinting with Holographic Reduced Representations**

Yusuke Fujita (LY Corporation); Tatsuya Komatsu (LY Corporation)

**11:30–13:30 RAST: A Reference-Audio Synchronization Tool for Dubbed Content**

David Meyer (ETH Zürich); Eitan Abecassis (Disney Entertainment & ESPN Technology); Clara Fernandez-Labrador (Disney Research); Christopher Schroers (DisneyResearch|Studios)

**11:30–13:30 YOLOPitch: A Time-Frequency Dual-Branch YOLO Model for Pitch Estimation**

Xuefei Li; Hao Huang; Ying Hu (Xinjiang University); Liang He (Tsinghua University); Jiabao Zhang; Yuyi Wang (Xinjiang University)

**11:30–13:30 Reduce, Reuse, Recycle: Is Perturbed Data Better than Other Language Augmentation for Low Resource Self-Supervised Speech Models**

Asad Ullah; Alessandro Ragano; Andrew Hines (University College Dublin)

**11:30–13:30 AlignNet: Learning dataset score alignment functions to enable better training of speech quality estimators**

Jaden Pieper (Institute for Telecommunication Sciences); Stephen Voran (Institute for Telecommunication Sciences)

**A12-P1-B - Spoken Machine Translation 2**

**POSTER** 📍 **Poster Area 3B**

📅 Monday 02 September 2024 ⌚  
11:30–13:30 **Session chairs : Yannick Estève**

🕒 11:30–13:30 **Parameter-Efficient Adapter Based on Pre-trained Models for Speech Translation**

Nan Chen (Inner Mongolian University); Yonghe Wang; Feilong Bao (Inner Mongolia University)

🕒 11:30–13:30 **Wave to Interlingua: Analyzing Representations of Multilingual Speech Transformers for Spoken Language Translation**

Badr M. Abdullah; Mohammed Maqsood Shaik; Dietrich Klakow (Saarland University)

🕒 11:30–13:30 **Knowledge-Preserving Plug-gable Modules for Multilingual Speech Translation Tasks**

Nan Chen (Inner Mongolian University); Yonghe Wang; Feilong Bao (Inner Mongolia University)

🕒 11:30–13:30 **Navigating the Minefield of MT Beam Search in Cascaded Streaming Speech Translation**

Rastislav Rabatin (Meta); Frank Seide (Meta Platforms, Inc.); Ernie Chang (Meta Inc.)

🕒 11:30–13:30 **Soft Language Identification for Language-Agnostic Many-to-One End-to-End Speech Translation**

Peidong Wang (Microsoft); Jian Xue (Microsoft Corporation); Jinyu Li; Junkun Chen; Aswin Shanmugam Subramanian (Microsoft)

🕒 11:30–13:30 **A Unit-based System and Dataset for Expressive Direct Speech-to-Speech Translation**

Anna Min; Chenxu Hu (Tsinghua University); Yi Ren (ByteDance); Hang Zhao (Tsinghua University)

🕒 11:30–13:30 **Translating speech with just images**

Dan Oneata (Politehnica University of Bucharest); Herman Kamper (Stellenbosch University)

🕒 11:30–13:30 **ZeroST: Zero-Shot Speech Translation**

Sameer Khurana (Mitsubishi Electric Research Lab); Chiori Hori (Mitsubishi Electric Research Laboratories

(MERL)); Antoine Laurent (Le Mans University); Gordon Wichern; Jonathan Le Roux (Mitsubishi Electric Research Laboratories (MERL))

**A12-P1-A - Spoken Language Processing**

POSTER

📍 Poster Area 3A

📅 Monday 02 September 2024 🕒 11:30–13:30 **Session chairs : Mathew Magimai Doss**

🕒 11:30–13:30 **Query-by-Example Keyword Spotting Using Spectral-Temporal Graph Attentive Pooling and Multi-Task Learning**

Zhenyu Wang (UTD); Shuyu Kong; Li Wan; Biqiao Zhang (Meta); Yiteng Huang (Meta Platforms); Mumin Jin (MIT); Ming Sun; Xin Lei; Zhaojun Yang (Meta)

🕒 11:30–13:30 **Relational Proxy Loss for Audio-Text based Keyword Spotting**

Youngmoon Jung; Seungjin Lee; Joon-Young Yang; Jaeyoung Roh (Samsung Research); Changwoo Han (Samsung Reserch); Hoon-Young Cho (Samsung Research)

🕒 11:30–13:30 **CTC-aligned Audio-Text Embedding for Streaming Open-vocabulary Keyword Spotting**

Sichen Jin (Samsung); Youngmoon Jung; Seungjin Lee; Jaeyoung Roh (Samsung Research); Changwoo Han (Samsung Reserch); Hoon-Young Cho (Samsung Research)

🕒 11:30–13:30 **Text-aware Speech Separation for Multi-talker Keyword Spotting**

Haoyu Li; Baochen Yang; Yu Xi; Linfeng Yu; Tian Tan (Shanghai Jiao Tong University); Hao Li (AISpeech Ltd, Suzhou China); Kai Yu (Shanghai Jiao Tong University)

🕒 11:30–13:30 **Language-Universal Speech Attributes Modeling for Zero-Shot Multilingual Spoken Keyword Recognition**

Hao Yen; Pin-Jui Ku (Georgia Institute of Technology); Sabato Marco Siniscalchi (Università degli Studi di Palermo); Chin-Hui Lee (Georgia Institute of Technology)



🕒 11:30–13:30 **Adding User Feedback To Enhance CB-Whisper**

Raul Monteiro (Priberam Informática S. A.)

🕒 11:30–13:30 **OWSM v3.1: Better and Faster Open Whisper-Style Speech Models based on E-Branchformer**

Yifan Peng; Jinchuan Tian; William Chen; Siddhant Arora; Brian Yan (Carnegie Mellon University); Yui Sudo; Muhammad Shakeel (Honda Research Institute Japan); Kwanghee Choi; Jiatong Shi; Xuankai Chang; Jee-weon Jung; Shinji Watanabe (Carnegie Mellon University)

**SS2 - Biosignal-enabled Spoken Communication**

POSTER 📍 Poster Area 4A

📅 Monday 02 September 2024 🕒

11:30–13:30 **Session chairs : Kevin Scheck, Peter Wu**

🕒 11:30–13:30 **A multimodal approach to study the nature of coordinative patterns underlying speech rhythm**

Jinyu Li (Laboratoire de Phonétique et Phonologie (CNRS & Sorbonne Nouvelle)); Leonardo Lancia (Laboratoire Parole et Langage (CNRS/Aix-Marseille Université))

🕒 11:30–13:30 **Towards EMG-to-Speech with Necklace Form Factor**

Peter Wu; Ryan Kaveh (UC Berkeley); Raghav Nautiyal (University of California, Berkeley); Christine Zhang; Albert Guo; Anvitha Kachinthaya; Tavish Mishra; Bohan Yu (UC Berkeley); Alan W Black (CMU); Rikky Muller; Gopala Krishna Anumanchipalli (UC Berkeley)

🕒 11:30–13:30 **Using articulated speech EEG signals for imagined speech decoding**

Chris Bras (Delft University of Technology); Tanvina Patel (Multimedia computing, Delft University of Technology); Odette Scharenborg (Multimedia Computing Group, Delft University of Technology)

🕒 11:30–13:30 **Direct Speech Synthesis from Non-Invasive, Neuromagnetic Signals**

Jinuk Kwon; David Harwath (The University of Texas at Austin); Debadatta Dash (University of Texas at Austin);

Paul Ferrari (Helen DeVos Children's Medical Center); Jun Wang (University of Texas at Austin)

🕒 11:30–13:30 **Optical Flow Guided Tongue Trajectory Generation for Diffusion-based Acoustic to Articulatory Inversion**

Yudong Yang (Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences); Rongfeng Su (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences); Rukiye Ruzi (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences); Manwa Ng (Division of Speech and Hearing Sciences, University of Hong Kong); Shaofeng Zhao (Department of Rehabilitation Medicine, The Eighth Affiliated Hospital of Sun Yat-sen University); Nan Yan; Lan Wang (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)

🕒 11:30–13:30 **Multimodal Segmentation for Vocal Tract Modeling**

Rishi Jain; Bohan Yu; Peter Wu (UC Berkeley); Tejas Prabhune (Berkeley Speech Lab); Gopala Krishna Anumanchipalli (UC Berkeley)

🕒 11:30–13:30 **Articulatory synthesis using representations learnt through phonetic label-aware contrastive loss**

Jesuraj Bandekar (IISc); Sathvik Udupa (Indian Institute of Science); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)

🕒 11:30–13:30 **Auditory Attention Decoding in Four-Talker Environment with EEG**

Yujie Yan; Xiran Xu; Haolin Zhu; Pei Tian; Zhongshu Ge; Xihong Wu; Jing Chen (Peking University)

🕒 11:30–13:30 **ASA: An Auditory Spatial Attention Dataset with Multiple Speaking Locations**

Zijie Lin; Tianyu He (The Chinese University of Hong Kong, Shenzhen); Siqi Cai (National University of Singapore); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)

🕒 11:30–13:30 **Leveraging Graphic and Convolutional Neural Networks for Auditory Attention Detection with EEG**

Saurav Pahuja; Gabriel Ivucic; Pascal Himmelfmann (University of Bremen); Siqi Cai (National University of Singapore); Tanja Schultz (University of Bremen); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)

## A8-O1 - Noise Robustness, Far-Field, and Multi-Talker ASR

ORAL 📍 Hippocrates

📅 Monday 02 September 2024 ⌚  
15:00–17:00 **Session chairs : Takuya Yoshioka**

⌚ 15:00–15:20 **LibriheavyMix: A 20,000-Hour Dataset for Single-Channel Reverberant Multi-Talker Speech Separation, ASR and Speaker Diarization**

Zengrui Jin (The Chinese University of Hong Kong); Yifan Yang (Shanghai Jiao Tong University); Mohan Shi (University of California, Los Angeles); Wei Kang (Xiaomi Corp., Beijing, China); Xiaoyu Yang (Xiaomi Corp., Beijing); Zengwei Yao; Fangjun Kuang; Liyong Guo (Xiaomi Corp.); Lingwei Meng (The Chinese University of Hong Kong); Long Lin (Xiaomi Corp.); Yong Xu (Tencent); Shi-Xiong Zhang (Capital One); Daniel Povey (Xiaomi, Inc.)

⌚ 15:20–15:40 **A Joint Noise Disentanglement and Adversarial Training Framework for Robust Speaker Verification**

Xujiang Xing (Xinjiang University); Mingxing Xu (Tsinghua University); Thomas Fang Zheng ("CSLT, Tsinghua University")

⌚ 15:40–16:00 **Serialized Output Training by Learned Dominance**

Ying Shi (Harbin Institute of Technology); Lantian Li (Beijing University of Posts and Telecommunications); Shi Yin (Huawei); Dong Wang (Tsinghua University); Jiqing Han (Harbin Institute of Technology)

⌚ 16:00–16:20 **SOT Triggered Neural Clustering for Speaker Attributed ASR**

Xianrui Zheng (University of Cambridge); Guangzhi Sun (University of Cambridge Department of Engineering); Chao Zhang (Tsinghua University); Philip C. Woodland (Machine Intelligence Laboratory, Cambridge University Department of Engineering)

⌚ 16:20–16:40 **Neural Blind Source Separation and Diarization for Distant Speech Recognition**

Yoshiaki Bando (National Institute of Advanced Industrial Science and Technology); Tomohiko Nakamura (National Institute of Advanced Industrial Science and Technology (AIST)); Shinji Watanabe (Carnegie Mellon University)

⌚ 16:40–17:00 **Unified Multi-Talker ASR with and without Target-speaker Enrollment**

Ryo Masumura (NTT Corporation); Naoki Makishima; Tomohiro Tanaka (NTT); Mana Ihori (NTT Corporation); Naotaka Kawata (NTT); Shota Orihashi; Kazutoshi Shinoda; Taiga Yamane; Saki Mizuno (NTT Corporation); Keita Suzuki (Nippon Telegraph and Telephone Corporation); Satoshi Suzuki (NTT Computer and Data Science Laboratories / The University of Electro-Communications); Nobukatsu Hojo (Nippon Telegraph and Telephone Corporation); Takafumi Moriya (NTT); Atsushi Ando (NTT Corporation)

## A5-O1 - Audio Event Detection and Classification 1

ORAL 📍 Acesso

📅 Monday 02 September 2024 ⌚  
15:00–17:00 **Session chairs : Reinhold Hüb-Umbach**

⌚ 15:00–15:20 **Can Synthetic Audio From Generative Foundation Models Assist Audio Recognition and Speech Modeling?**

Tiantian Feng (University of Southern California); Dimitrios Dimitriadis (Amazon); Shrikanth Narayanan (USC)

⌚ 15:20–15:40 **Scaling up masked audio encoder learning for general audio classification**

Heinrich Dinkel; Zhiyong Yan; Yongqing Wang; Junbo Zhang; Yujun Wang (xiaomi); Bin Wang (Xiaomi AI Lab)

⌚ 15:40–16:00 **Audio Mamba: Selective State Spaces for Self-Supervised Audio Representations**

Sarthak Yadav (Aalborg University); Zheng-Hua Tan (Aalborg University)

🕒 16:00–16:20 **MAT-SED: A Masked Audio Transformer with Masked-Reconstruction Based Pre-training for Sound Event Detection**

Pengfei Cai (University of Science and Technology of China); Yan Song (USTC); Kang Li (University of Science and Technology of China, National Engineering Research Center of Speech and Language Information Processing.); Haoyu Song (The Australian National University); Ian McLoughlin (Singapore Institute of Technology)

🕒 16:20–16:40 **Sound Event Bounding Boxes**

Janek Ebbers; François G. Germain; Gordon Wichern; Jonathan Le Roux (Mitsubishi Electric Research Laboratories (MERL))

🕒 16:40–17:00 **Low-Complexity Acoustic Scene Classification Using Parallel Attention-Convolution Network**

Yanxiong Li; Jiaxin Tan; Guoqing Chen; Jialong Li; Yongjie Si; Qianhua He (South China University of Technology)

## A3-O1 - Paralinguistics

ORAL 📍 Aegle B

📅 Monday 02 September 2024 🕒 15:00–17:00 Session chairs : Oliver Niebuhr

🕒 15:00–15:40 - Survey Talk

### Paralinguistics: Past and Present

Anton Batliner (University of Munich)

🕒 15:40–16:00 **Cross-transfer Knowledge between Speech and Text Encoders to Evaluate Customer Satisfaction**

Luis Felipe Parra-Gallego (University of Antioquia); Tilak Purohit; Bogdan Vlasenko (Idiap Research Institute); Juan Rafael Orozco-Arroyave (University of Antioquia); Mathew Magimai.-Doss (Idiap Research Institute)

🕒 16:00–16:20 **Fine-tuning of Pre-trained Models for Classification of Vocal Intensity Category from Speech Signals**

Manila Kodali (Aalto University); Sudarsana Reddy Kadiri (University of Southern California); Paavo Alku (Aalto University)

🕒 16:20–16:40 **Real-world PTSD Recognition: A Cross-corpus and Cross-linguistic Evaluation**

Alexander Kathan; Martin Bürger (University of Augsburg); Andreas Triantafyllopoulos (Technische Universität München); Sabrina Milkus; Jonas Hohmann; Pauline Muderlak (LMU Munich); Jürgen Schottdorf (Zentrumspraxis Friedberg); Richard Musil (LMU Munich); Björn Schuller; Shahin Amiriparian (Technical University of Munich)

🕒 16:40–17:00 **Switching Tongues, Sharing Hearts: Identifying the Relationship between Empathy and Code-switching in Speech**

Debasmita Bhattacharya; Eleanor Lin; Run Chen; Julia Hirschberg (Columbia University)

## A2-O1 - Individual and Social Factors in Phonetics

ORAL 📍 Panacea Amphitheater

📅 Monday 02 September 2024 🕒 15:00–17:00 Session chairs :

🕒 15:00–15:20 **Echoes of Implicit Bias Exploring Aesthetics and Social Meanings of Swiss German Dialect Features**

Tillmann Pistor (University of Bern); Adrian Leemann (University of Bern)

🕒 15:20–15:40 **In search of structure and correspondence in intra-speaker trial-to-trial variability**

Vivian G. Li (Yale)

🕒 15:40–16:00 **Modelled Multivariate Overlap: A method for measuring vowel merger**

Irene Smith; Morgan Sonderegger (McGill University); The Spade Consortium (University of Glasgow)

🕒 16:00–16:20 **Entrainment Analysis and Prosody Prediction of Subsequent Interlocutor's Backchannels in Dialogue**

Keiko Ochi; Koji Inoue; Divesh Lala; Tatsuya Kawahara (Kyoto University)



🕒 16:20–16:40 **Exploring the anatomy of articulation rate in spontaneous English speech: relationships between utterance length effects and social factors**

*James Tanner (University of Glasgow); Morgan Sonderegger (McGill University); Jane Stuart-Smith (University of Glasgow); Tyler Kendall (University of Oregon); Jeff Mielke; Robin Dodsworth; Erik Thomas (North Carolina State University)*

🕒 16:40–17:00 **Familiar and Unfamiliar Speaker Identification in Speech and Singing**

*Katelyn Taylor; Amelia Gully; Helena Daffern (University of York)*

**A12-O1 - Spoken Machine Translation 1**

ORAL 📍 Melampus

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Helena Moniz, Sakriani Sakti**

🕒 15:00–15:20 **Investigating Decoder-only Large Language Models for Speech-to-text Translation**

*Chao-Wei Huang (National Taiwan University); Hui Lu (The Chinese University of Hong Kong); Hongyu Gong (Meta AI); Hirofumi Inaguma; Iliia Kulikov; Ruslan Mavlyutov (Meta); Sravya Popuri (Facebook Inc)*

🕒 15:20–15:40 **Diffusion Synthesizer for Efficient Multilingual Speech to Speech Translation**

*Nameer Hirschkind; Xiao Yu; Mahesh Kumar Nandwana; Joseph Liu; Eloi DuBois; Dao Le; Nicolas Thiebaut; Colin Sinclair; Kyle Spence; Charles Shang; Zoe Abrams; Morgan McGuire (Roblox)*

🕒 15:40–16:00 **Sign Value Constraint Decomposition for Efficient 1-Bit Quantization of Speech Translation Tasks**

*Nan Chen (Inner Mongolian University); Yonghe Wang; Feilong Bao (Inner Mongolia University)*

🕒 16:00–16:20 **Lightweight Audio Segmentation for Long-form Speech Translation**

*Jaesong Lee; Soyeon Kim; Hanbyul Kim (NAVER Cloud); Joon Son Chung (KAIST)*

🕒 16:20–16:40 **Contrastive Feedback Mechanism for Simultaneous Speech Translation**

*Haotian Tan (Nara Institute of Science and Technology); Sakriani Sakti (Nara Institute of Science and Technology / Japan Advanced Institute of Science and Technology)*

🕒 16:40–17:00 **Towards Speech-to-Pictograms Translation**

*Cécile Macaire; Chloé Dion; Didier Schwab (Université Grenoble Alpes); Benjamin Lecouteux (University Grenoble Alpes (UGA)); Emmanuelle Esperança-Rodier (Université Grenoble Alpes)*

**A11-O1 - Spoken Language Understanding**

ORAL 📍 Iasso

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs :**

🕒 15:00–15:20 **Finding Task-specific Subnetworks in Multi-task Spoken Language Understanding Model**

*Hayato Futami (Sony Group Corporation); Siddhant Arora (Carnegie Mellon University); Yosuke Kashiwagi (Sony); Emiru Tsunoo (Sony Group Corporation); Shinji Watanabe (Carnegie Mellon University)*

🕒 15:20–15:40 **Out-of-distribution generalization in spoken language understanding**

*Dejan Porjazovski; Anssi Moisio; Mikko Kurimo (Aalto University)*

🕒 15:40–16:00 **A dual task learning approach to fine-tune a multilingual semantic speech encoder for Spoken Language Understanding**

*Gaëlle Laperrière (LIA - Avignon University); Sahar Ghannay (LISN); Bassam Jabaian; Yannick Estève (LIA - Avignon University)*

🕒 16:00–16:20 **Speech-MASSIVE: A Multilingual Speech Dataset for SLU and Beyond**

*Beomseok Lee (University of Trento); Ioan Calapodescu (Naver Labs Europe); Marco Gaido; Matteo Negri (Fondazione Bruno Kessler); Laurent Besacier (Naver Labs Europe)*

🕒 16:20–16:40 **Using Large Language Model for End-to-End Chinese ASR and NER**

*Yuang Li (Huawei); Jiawei Yu (Xiamen University); Min Zhang; Mengxin Ren; Yanqing Zhao; Xiaofeng Zhao; Shimin Tao (Huawei); Jinsong Su (Xiamen University); Hao Yang (Huawei)*

🕒 16:40–17:00 **A Contrastive Learning Approach to Mitigate Bias in Speech Models**

*Alkis Koudounas; Flavio Giobergia; Eliana Pastor; Elena Baralis (Politecnico di Torino)*

**A7-O2 - Zero-shot TTS**

ORAL 📍 Aegle A

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Zhizheng Wu, Andrew Rosenberg**

🕒 15:00–15:40 - Survey Talk

**Zero-shot text-to-speech**

*Zhizheng Wu (Chinese University of Hong Kong, Shenzhen)*

🕒 15:40–16:00 **Improving Audio Codec-based Zero-Shot Text-to-Speech Synthesis with Multi-Modal Context and Large Language Model**

*Jinlong Xue; Yayue Deng; Yicheng Han; Yingming Gao; Ya Li (Beijing University of Posts and Telecommunications)*

🕒 16:00–16:20 **An Investigation of Noise Robustness for Flow-Matching-Based Zero-Shot TTS**

*Xiaofei Wang; Sefik Emre Eskimez; Manthan Thakker; Hemin Yang; Zirun Zhu; Min Tang; Yufei Xia; Jinzhu Li; Sheng Zhao; Jinyu Li; Naoyuki Kanda (Microsoft)*

🕒 16:20–16:40 **Lightweight Zero-shot Text-to-Speech with Mixture of Adapters**

*Kenichi Fujita; Takanori Ashihara; Marc Delcroix; Yusuke Iijima (NTT Corporation)*

🕒 16:40–17:00 **DINO-VITS: Data-Efficient Zero-Shot TTS with Self-Supervised Speaker Verification Loss for Noise Robustness**

*Vikentii Pankov; Valeria Pronina (Huawei Technologies Co. Ltd.); Alexander Kuzmin; Maksim Borisov (ITMO University); Nikita Usoltsev (HSE); Xingshan Zeng (Huawei Noah's Ark Lab); Alexander Golubkov; Nikolai Ermolenko (Huawei Technologies Co. Ltd.); Aleksandra Shirshova (Saint Petersburg State University); Yulia Matveeva (Huawei Technologies Co. Ltd.)*

**A9-P1 - Contextual Biasing and Adaptation**

POSTER 📍 Poster Area 3A

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Brian King, Boris Ginsburg**

🕒 15:00–17:00 **Keyword-Guided Adaptation of Automatic Speech Recognition**

*Aviv Shamsian (Bar Ilan University); Aviv Navon (Bar-Ilan University); Neta Glazer; Gill Hetz (aiola); Joseph Keshet (Technion - Israel Institute of Technology)*

🕒 15:00–17:00 **Improving Speech Recognition with Prompt-based Contextualized ASR and LLM-based Re-predictor**

*Nguyen Manh Tien Anh (VinBigData Joint Stock Company); Thach Ho Sy (VinBigdata)*

🕒 15:00–17:00 **Incorporating Class-based Language Model for Named Entity Recognition in Factorized Neural Transducer**

*Peng Wang (Key Lab of Speech Acoustics and Content Understanding, Institute of Acoustics, CAS, China, University of Chinese Academy of Sciences, China); Yifan Yang; Zheng Liang; Tian Tan (Shanghai Jiao Tong University); Shiliang Zhang (Alibaba Group); Xie Chen (Shanghai Jiaotong University)*

🕒 15:00–17:00 **Contextual Biasing with Confidence-based Homophone Detector for Mandarin End-to-End Speech Recognition**

*Chengxu Yang (University of Chinese Academy of Sciences; Institute of Acoustics, University of Chinese Academy of Sciences); Lin Zheng; Sanli Tian (University of Chinese Academy of Sciences; Institute of Acoustics, Chinese Academy of Sciences); Gaofeng Cheng*



*(Institute of Acoustics, Chinese Academy of Sciences); Sujie Xiao (University of Chinese Academy of Sciences); Institute of Acoustics, Chinese Academy of Sciences); Ta Li (Institute of Acoustics, Chinese Academy of Sciences)*

🕒 15:00–17:00 **Improving Neural Biasing for Contextual Speech Recognition by Early Context Injection and Text Perturbation**

*Ruizhe Huang; Mahsa Yarmohammadi; Sanjeev Khudanpur (Johns Hopkins University); Daniel Povey (Xiaomi, Inc.)*

🕒 15:00–17:00 **Fast Context-Biasing for CTC and Transducer ASR models with CTC-based Word Spotter**

*Andrei Andrusenko (NVIDIA); Aleksandr Laptev (NVIDIA, ITMO University); Vladimir Bataev (NVIDIA, University of London); Vitaly Lavrukhin; Boris Ginsburg (NVIDIA)*

🕒 15:00–17:00 **Prompt Tuning for Speech Recognition on Unknown Spoken Name Entities**

*Xizi Wei (action.ai); Stephen McGregor (action.ai)*

🕒 15:00–17:00 **Improved Factorized Neural Transducer Model For Text-only Domain Adaptation**

*Junzhe Liu (Shanghai Jiaotong University); Jianwei Yu (Tencent AI lab); Xie Chen (Shanghai Jiaotong University)*

🕒 15:00–17:00 **Modality Translation Learning for Joint Speech-Text Model**

*Pin-Yen Liu (National Yang Ming Chiao Tung University); Jen-Tzung Chien (National Yang Ming Chiao Tung University)*

🕒 15:00–17:00 **SAML: Speaker Adaptive Mixture of LoRA Experts for End-to-End ASR**

*Qiuming Zhao (CSLT, Tsinghua University); Guangzhi Sun (University of Cambridge Department of Engineering); Chao Zhang; Mingxing Xu (Tsinghua University); Thomas Fang Zheng ("CSLT, Tsinghua University")*

🕒 15:00–17:00 **Factor-Conditioned Speaking-Style Captioning**

*Atsushi Ando (NTT Corporation); Takafumi Moriya (NTT); Shota Horiguchi; Ryo Masumura (NTT Corporation)*

🕒 15:00–17:00 **Dual-Pipeline with Low-Rank Adaptation for New Language Integration in Multilingual ASR**

*Yerbolat Khassanov; Zhipeng Chen; Tianfeng Chen; Tze Yuang Chong; Wei Li; Jun Zhang; Lu Lu (Bytedance); Yuxuan Wang (ByteDance AI Lab)*

🕒 15:00–17:00 **Speculative Speech Recognition by Audio-Prefixed Low-Rank Adaptation of Language Models**

*Bolaji Yusuf (Bogazici University); Murali Karthick Baskar (Google Inc); Andrew Rosenberg (Google LLC); Bhuvana Ramabhadran (Google)*

🕒 15:00–17:00 **Domain-Aware Data Selection for Speech Classification via Meta-Reweighting**

*Junghun Kim; Ka Hyun Park; Hoyoung Yoon; U Kang (Seoul National University)*

**A6-P1-B - Computationally-Efficient Speech Enhancement**

POSTER 📍 Poster Area 4B

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Julius Richter**

🕒 15:00–17:00 **Speech Boosting: Low-Latency Live Speech Enhancement for TWS Earbuds**

*Hanbin Bae (Speech Intelligence Team, Samsung Research); Pavel Andreev (Samsung AI Center Moscow); Azat Saginbaev (MIPT); Nicholas Babaev (Samsung AI center); WonJun Lee (Samsung); Hosang Sung; Hoon-Young Cho (Samsung Research)*

🕒 15:00–17:00 **Knowledge Distillation for Tiny Speech Enhancement with Latent Feature Augmentation**

*Behnam Gholami (Samsung); Mostafa El-Khamy (Samsung Research USA); KeeBong Song (Samsung Semiconductor Inc.)*

🕒 15:00–17:00 **Sub-PNWR: Speech Enhancement Based on Signal Sub-Band Splitting and Pseudo Noisy Waveform Reconstruction Loss**

Yuewei Zhang (Shanghai Jiao Tong University); Huanbin Zou (Xiaohongshu); Jie Zhu (Shanghai Jiao Tong University)

🕒 15:00–17:00 **Streamlining Speech Enhancement DNNs: an Automated Pruning Method Based on Dependency Graph with Advanced Regularized Loss Strategies**

Zugang Zhao (Beijing University of Posts and Telecommunications); Jinghong Zhang; Yonghui Liu; Jianbing Liu (Beijing University of Posts and Telecommunications); Kai Niu; Zhiqiang He (Fanvil Link Technology Co.)

🕒 15:00–17:00 **Lightweight Dynamic Sparse Transformer for Monaural Speech Enhancement**

Zehua Zhang (Harbin Institute of Technology (Shenzhen)); Xuyi Zhuang (Harbin Institute of Technology (Shenzhen)); Yukun Qian (Harbin Institute of Technology (Shenzhen)); Mingjiang Wang (Harbin Institute of Technology Shenzhen)

🕒 15:00–17:00 **MUSE: Flexible Voiceprint Receptive Fields and Multi-Path Fusion Enhanced Taylor Transformer for U-Net-based Speech Enhancement**

Zizhen Lin (Sichuan University); Xiaoting Chen (Yunnan University); Junyu Wang (Sichuan University)

🕒 15:00–17:00 **Dynamic Gated Recurrent Neural Network for Compute-efficient Speech Enhancement**

Longbiao Cheng (Institute of Neuroinformatics, University of Zurich and ETH Zurich); Ashutosh Pandey (META); Buye Xu (Meta Reality Labs Research); Tobi Delbruck (Sensors Group, Inst. of Neuroinformatics, UZH-ETH Zurich); Shih-Chii Liu (Institute of Neuroinformatics, University of Zurich and ETH Zurich)

**A6-P1-A - Noise Reduction, Dereverberation, and Echo Cancellation**

POSTER 📍 Poster Area 4A

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Ofer Schwartz, Kaustubh Kalgaonkar**

🕒 15:00–17:00 **Deep Echo Path Modeling for Acoustic Echo Cancellation**

Fei Zhao (School of Computer Science, Inner Mongolia University); Chenggang Zhang (Inner Mongolia Minzu University); Shulin He; Jinjiang Liu (College of Computer Science, Inner Mongolia University); Xueliang Zhang (Inner Mongolia University)

🕒 15:00–17:00 **Graph Attention Based Multi-Channel U-Net for Speech Dereverberation With Ad-Hoc Microphone Arrays**

Hongmei Guo; Yijiang Chen; Xiao-Lei Zhang (Northwestern Polytechnical University); Xuelong Li (Institute of Artificial Intelligence (TeleAI), China Telecom Corp Ltd)

🕒 15:00–17:00 **Speech dereverberation constrained on room impulse response characteristics**

Louis Bahrman; Mathieu Fontaine (Télécom Paris); Jonathan Le Roux (Mitsubishi Electric Research Laboratories (MERL)); Gaël Richard (LTCI, Telecom Paris, Institut polytechnique de Paris)

🕒 15:00–17:00 **DeWinder: Single-Channel Wind Noise Reduction using Ultrasound Sensing**

Kuang Yuan; Shuo Han; Swarun Kumar; Bhiksha Raj (Carnegie Mellon University)

🕒 15:00–17:00 **ANIMAL-CLEAN – A Deep Denoising Toolkit for Animal-Independent Signal Enhancement**

Alexander Barnhill (Friedrich-Alexander University); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nuremberg); Christian Bergler (Technical University of Applied Sciences Amberg-Weiden, Department of Electrical Engineering, Media and Computer Science)

🕒 15:00–17:00 **Elucidating Clock-drift Using Real-world Audios In Wireless Mode For Time-offset Insensitive End-to-End Asynchronous Acoustic Echo Cancellation**

Premanand Nayak (Samsung Research and Development Institute - Bangalore, India); M. Ali Basha Shaik (Samsung Research and Development Institute - Bangalore, India)

🕒 15:00–17:00 **QMixCAT: Unsupervised Speech Enhancement Using Quality-guided Signal Mixing and Competitive Alternating Model Training**

Shilin Wang (Shanghai Normal University); Haixin Guan (University of Science and Technology of China; Unisound AI Technology Co., Ltd); Yanhua Long (Shanghai Normal University)

## A4-P1 - Speaker Recognition: Adversarial and Spoofing Attacks

POSTER 📍 Poster Area 2A

📅 Monday 02 September 2024 ⌚  
15:00–17:00 **Session chairs** : Hemlata Tak

### 🕒 15:00–17:00 **Anti-spoofing Ensembling Model: Dynamic Weight Allocation in Ensemble Models for Improved Voice Biometrics Security**

Eros Rosello; Angel M. Gomez; Iván López-Espejo; Antonio M. Peinado (University of Granada); Juan M. Martín-Doñas (Vicomtech)

### 🕒 15:00–17:00 **Spoof Diarization: "What Spoofed When" in Partially Spoofed Audio**

Lin Zhang; Xin Wang (National Institute of Informatics); Erica Cooper (National Institute of Information and Communications Technology); Mireia Diez; Federico Landini (Brno University of Technology); Nicholas Evans (EURECOM); Junichi Yamagishi (National Institute of Informatics)

### 🕒 15:00–17:00 **Spoofing Speech Detection by Modeling Local Spectro-Temporal and Long-term Dependency**

Haochen Wu; Wu Guo (University of Science and Technology of China); Zhentao Zhang; Wenting Zhao (China Merchants Bank); Shengyu Peng (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC))

### 🕒 15:00–17:00 **Improving Copy-Synthesis Anti-Spoofing Training Method with Rhythm and Speaker Perturbation**

Jingze Lu (Key Laboratory of Speech Acoustics and Content Understanding, Institute of Acoustics, China); Yuxiang Zhang (Key Laboratory of Speech Acoustics and Content Understanding, Institute of Acoustics, Chinese Academy of Sciences); Zhuo Li (OPPO); Zengqiang Shang (The Institute of Acoustics of the Chinese Academy of Sciences); Wenchao Wang (Key Laboratory of Speech Acoustics and Content Understanding, Institute of Acoustics, Chinese Academy of Sciences,

Beijing, China); Pengyuan Zhang (Institute of Acoustics, Chinese Academy of Sciences)

### 🕒 15:00–17:00 **VoiceDefense: Protecting Automatic Speaker Verification Models Against Black-box Adversarial Attacks**

Yip Keng Kan; Ke Xu (Huawei International); Hao Li (Huawei Technology); Jie Shi (Huawei International)

### 🕒 15:00–17:00 **Neural Codec-based Adversarial Sample Detection for Speaker Verification**

Xuanjun Chen; Jiawei Du; Haibin Wu; Jyh-Shing Roger Jang; Hung-yi Lee (National Taiwan University)

### 🕒 15:00–17:00 **Textual-Driven Adversarial Purification for Speaker Verification**

Sizhou Chen (Chengdu University of Information Technology); Yibo Bai (The University of Hong Kong); Jiadi Yao; Xiao-Lei Zhang (Northwestern Polytechnical University); Xuelong Li (Institute of Artificial Intelligence (TeleAI), China Telecom Corp Ltd)

### 🕒 15:00–17:00 **Boosting the Transferability of Adversarial Examples with Gradient-Aligned Ensemble Attack for Speaker Recognition**

Zhuhai Li (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC)); Wu Guo; Haochen Wu (University of Science and Technology of China)

### 🕒 15:00–17:00 **Temporal-Channel Modeling in Multi-head Self-Attention for Synthetic Speech Detection**

Duc-Tuan Truong (Nanyang Technological University); Ruijie Tao (National University of Singapore); Tuan Nguyen (Institute for Infocomm Research, A\*STAR); Hieu-Thi Luong (Nanyang Technological University); Kong Aik Lee (The Hong Kong Polytechnic University); Eng-Siong Chng (Nanyang Technological University)

## A13-P1-B - Speech Disorders 2

POSTER 📍 Poster Area 1B

📅 Monday 02 September 2024 ⌚  
15:00–17:00 **Session chairs** :



🕒 15:00–17:00 **Whister: Using Whisper’s representations for Stuttering detection**

Vrushank Changawala (Dalhousie University); Frank Rudzicz (Dalhousie University)

🕒 15:00–17:00 **Improving Speech-Based Dysarthria Detection using Multi-task Learning with Gradient Projection**

Yan Xiong; Visar Berisha; Julie Liss; Chaitali Chakrabarti (Arizona State University)

🕒 15:00–17:00 **Cascaded Transfer Learning Strategy for Cross-Domain Alzheimer’s Disease Recognition through Spontaneous Speech**

Guanlin Chen (Jiangsu Normal University); Yun Jin (Jiangsu Normal University)

🕒 15:00–17:00 **A Cross-Attention Layer coupled with Multimodal Fusion Methods for Recognizing Depression from Spontaneous Speech**

Loukas Ilias (National Technical University of Athens); Dimitris Askounis (National Technical University of Athens)

🕒 15:00–17:00 **Segmental and Suprasegmental Speech Foundation Models for Classifying Cognitive Risk Factors: Evaluating Out-of-the-Box Performance**

Si-loi Ng; Lingfeng Xu (Arizona State University); Kimberly D. Mueller (University of Wisconsin-Madison); Julie Liss; Visar Berisha (Arizona State University)

🕒 15:00–17:00 **Multimodal Continuous Fingerspelling Recognition via Visual Alignment Learning**

Katerina Papadimitriou (University of Thessaly); Gerassimos Potamianos (ECE, University of Thessaly)

🕒 15:00–17:00 **Contrastive Learning Approach for Assessment of Phonological Precision in Patients with Tongue Cancer Using MRI Data**

Tomas Arias-Vergara (Friedrich-Alexander-Universitaet Erlangen-Nuernberg); Paula Andrea Pérez-Toro (Friedrich-Alexander-Universität Erlangen-Nürnberg);

Xiaofeng Liu (Yale University); Fangxu Xing (Massachusetts General Hospital / Harvard Medical School); Maureen Stone; Jiachen Zhuo (University of Maryland); Jerry L. Prince (Johns Hopkins University); Maria Schuster (Ludwig-Maximilians Universität München); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Jonghye Woo (Massachusetts General Hospital / Harvard Medical School); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nuremberg)

🕒 15:00–17:00 **DysArinVox: DYSphonia & DYSarthria mandARIN speech corpus**

Haojie Zhang; Tao Zhang; Ganjun Liu (Tianjin University); Dehui Fu (Tianjin Medical University); Xiaohui Hou; Ying Lv (Tianjin University)

🕒 15:00–17:00 **YOLO-Stutter: End-to-end Region-Wise Speech Dysfluency Detection**

Xuanru Zhou (Berkeley Speech Group); Anshul Kashyap (UC Berkeley); Steve Li (Berkeley Speech Group); Ayati Sharma (University of California, Berkeley); Brittny Morin; David Baquirin; Jet Vonk; Zoe Ezzes; Zachary Miller (University of California San Francisco); Maria Tempini (UCSF); Jiachen Lian (University of California Berkeley); Gopala Krishna Anumanchipalli (UC Berkeley)

🕒 15:00–17:00 **Automatic Longitudinal Investigation of Multiple Sclerosis Subjects**

Gábor Gosztolya (MTA-SZTE Research Group on AI); Veronika Svindt (Research Center for Linguistics); Judit Bóna (ELTE Eötvös Loránd University); Ildikó Hoffmann (Research Center for Linguistics)

**A13-P1-A - Hearing Disorders**

POSTER 📍 Poster Area 1A

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Bernd Meyer, John Hansen**

🕒 15:00–17:00 **Automatic Assessment of Speech Production Skills for Children with Cochlear Implants Using Wav2Vec2.0 Acoustic Embeddings**

Seonwoo Lee; Sunhee Kim; Minhwa Chung (Seoul National University)

🕒 15:00–17:00 **SyncVSR: Data-Efficient Visual Speech Recognition with End-to-End**

### Crossmodal Audio Token Synchronization

Young Jin Ahn (KAIST); Jungwoo Park (Kwangwoon University); Sangha Park (Ajou University); Jonghyun Choi (Seoul National University); Kee-Eung Kim (KAIST)

### 15:00–17:00 Evaluating a 3-factor listener model for prediction of speech intelligibility to hearing-impaired listeners

Mark Huckvale (University College London); Gaston Hilkuysen (University College London)

### 15:00–17:00 Production of fricative consonants in French-speaking children with cochlear implants and typical hearing: acoustic and phonological analyses.

Sophie Fagniard (UMONS); Brigitte Charlier (ULB); Véronique Delvaux; Bernard Harmegnies (UMONS); Anne Huberlant (Centre Comprendre et Parler); Myriam Piccaluga; Kathy Huet (UMONS)

### 15:00–17:00 Signal processing algorithm effective for sound quality of hearing loss simulators

Toshio Irino; Shintaro Doan; Minami Ishikawa (Wakayama University)

### 15:00–17:00 Auditory Spatial Attention Detection Based on Feature Disentanglement and Brain Connectivity-Informed Graph Neural Networks

Yixiang Niu; Ning Chen; Hongqing Zhu; Zhiying Zhu; Guangqiang Li; Yibo Chen (East China University of Science and Technology)

### 15:00–17:00 Automatic Detection of Hearing Loss from Children's Speech using wav2vec 2.0 Features

Jessica Monaghan; Arun Sebastian; Nicky Chong-White; Vicky Zhang; Vijayalakshmi Easwar; Padraig Kitterick (National Acoustic Laboratories)

### 15:00–17:00 Towards Explainable Monaural Speaker Separation with Auditory-based Training

Hassan Taherian (The Ohio State University); Vahid Ahmadi Kalkhorani (The Ohio State University); Ashutosh Pandey (META); Daniel Wong (Meta Platforms Inc.); Buye Xu (Meta Reality Labs Research); DeLiang Wang (Ohio State University)

### 15:00–17:00 Does the Lombard Effect Matter in Speech Separation? Introducing the Lombard-GRID-2mix Dataset

Iva Ewert; Marvin Borsdorf (University of Bremen); Haizhou Li (The Chinese University of Hong Kong, Shenzhen); Tanja Schultz (University of Bremen)

### 15:00–17:00 PARIS: Pseudo-AutoRegressive Siamese Training for Online Speech Separation

Zexu Pan; Gordon Wichern; François G. Germain (Mitsubishi Electric Research Laboratories (MERL)); Kohei Saijo (Waseda University); Jonathan Le Roux (Mitsubishi Electric Research Laboratories (MERL))

### 15:00–17:00 OR-TSE: An Overlap-Robust Speaker Encoder for Target Speech Extraction

Yiru Zhang; Linyu Yao; Qun Yang (Nanjing University of Aeronautics and Astronautics)

### 15:00–17:00 Multimodal Representation Loss Between Timed Text and Audio for Regularized Speech Separation

Tsun-An Hsieh (Indiana University Bloomington); Heeyoul Choi (Handong Global University); Minje Kim (University of Illinois at Urbana-Champaign)

### 15:00–17:00 SA-WavLM: Speaker-Aware Self-Supervised Pre-training for Mixture Speech

Jingru Lin; Meng Ge (National University of Singapore); Junyi Ao (Huawei Noah's Ark Lab); Liqun Deng (Huawei Noah's Ark Lab); Haizhou Li (The Chinese University of Hong Kong (Shenzhen))

### 15:00–17:00 TSE-PI: Target Sound Extraction under Reverberant Environments with Pitch Information

Yiwen Wang (Peking University); Xihong Wu (Peking University)

## A5-P2-B - Source Separation 2

POSTER 📍 Poster Area 2B

📅 Monday 02 September 2024 ⌚ 15:00–17:00 **Session chairs : Marc Delcroix**

🕒 15:00–17:00 **Enhanced Reverberation as Supervision for Unsupervised Speech Separation**

*Kohei Saijo (Waseda University); Gordon Wichern; François G. Germain; Zexu Pan; Jonathan Le Roux (Mitsubishi Electric Research Laboratories (MERL))*

**SS13 - TAUADIAL Challenge: Speech-Based Cognitive Assessment in Chinese and English (Special Session)**

POSTER 📍 Yanis Club

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs : Saturnino Luz Filho, Erfan Loweimi**

🕒 15:00–17:00 **Connected Speech-Based Cognitive Assessment in Chinese and English**

*Saturnino Luz; Sofia De La Fuente Garcia; Fasih Haider (The University of Edinburgh); Davida Fromm (Carnegie Mellon University); Brian MacWhinney (CMU); Alyssa Lanzi (University of Delaware); Ya-Ning Chang (MiiN Wu School of Computing, National Cheng Kung University); Chia-Ju Chou (Cardinal Tien Hospital); Yi-Chien Liu (Neurology department, CTH hospital)*

🕒 15:00–17:00 **Cognitive Insights Across Languages: Enhancing Multimodal Interview Analysis**

*David Ortiz-Perez; Jose Garcia-Rodriguez; David Tomás (University of Alicante)*

🕒 15:00–17:00 **Combining Acoustic Feature Sets for Detecting Mild Cognitive Impairment in the Interspeech'24 TAUADIAL Challenge**

*Gábor Gosztolya (MTA-SZTE Research Group on AI); László Tóth (University of Szeged)*

🕒 15:00–17:00 **Pre-trained Feature Fusion and Matching for Mild Cognitive Impairment Detection**

*Junwen Duan; Fangyuan Wei; Hong-Dong Li; Jin Liu (Central South University)*

🕒 15:00–17:00 **The Interspeech 2024 TAUADIAL Challenge: Multilingual Mild Cognitive Impairment Detection with Multimodal Approach**

*Benjamin Barrera-Altuna (University of South Florida); Daeun Lee (Sungkyunkwan University); Zaima Zarnaz (University of South Florida); Jinyoung Han (Sungkyunkwan University); Seungbae Kim (University of South Florida)*

🕒 15:00–17:00 **Leveraging Universal Speech Representations for Detecting and Assessing the Severity of Mild Cognitive Impairment Across Languages**

*Anna Favaro; Tianyu Cao; Najim Dehak; Laureano Morovelazquez (Johns Hopkins University)*

🕒 15:00–17:00 **Translingual Language Markers for Cognitive Assessment from Spontaneous Speech**

*Bao Hoang; Yijiang Pang (Michigan State University); Hiroko Dodge (Harvard Medical School); Jiayu Zhou (Michigan State University)*

🕒 15:00–17:00 **Multilingual Speech and Language Analysis for the Assessment of Mild Cognitive Impairment: Outcomes from the Taukadiad Challenge**

*Paula Andrea Pérez-Toro (Friedrich-Alexander-Universität Erlangen-Nürnberg); Tomas Arias-Vergara (Friedrich-Alexander-Universität Erlangen-Nürnberg); Philipp Klumpp (Pattern Recognition Lab, FAU Erlangen-Nuremberg); Tobias Weise (Friedrich-Alexander-Universität Erlangen-Nürnberg); Maria Schuster (Ludwig-Maximilians Universität München); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Juan Rafael Orozco-Arroyave (University of Antioquia); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nuremberg)*

**ST1 - Show and Tell 1**

SAT 📍 Exhibition

📅 Monday 02 September 2024 🕒 15:00–17:00 **Session chairs :**

🕒 15:00–17:00 **Production of phrases by mechanical models of the human vocal tract**



Takayuki Arai; Ryohei Suzuki; Chandler Earp; Shinya Tsuji (Sophia University, Japan); Keiko Ochi (Kyoto University)

🕒 15:00–17:00 **Faster Vocoder: a multi threading approach to achieve low latency during TTS Inference**

Vishal Gourav; Ankit Tyagi; Phanindra Mankale (Oracle Corporation, India)

🕒 15:00–17:00 **A powerful and modern AAC composition tool for impaired speakers**

Aanchan Mohan (Happy Prime Inc; Northeastern University; University of Victoria); Monideep Chakraborti (Happy Prime Inc); Katelyn Eng (Happy Prime Inc; Mercury Speech and Language); Nailia Kushaeva (Happy Prime Inc); Mirjana Prpa; Jordan Lewis (Northeastern University); Tianyi Zhang (Happy Prime Inc; University of Victoria)

🕒 15:00–17:00 **VoxFlow AI: wearable voice converter for atypical speech**

Grzegorz P. Mika (Uhura Bionics Human Interactivity and Language Lab; SAMOVAR, Telecom SudParis, Institut Polytechnique de Paris); Konrad Zielinski (Uhura Bionics Human Interactivity and Language Lab; SAMOVAR, Telecom SudParis, Institut Polytechnique de Paris); Pawel Cyrta; Marek Grzelec (Uhura Bionics Human Interactivity and Language Lab)

🕒 15:00–17:00 **Stress transfer in speech-to-speech machine translation**

Sai Akarsh; Vamshiraghusimha Narasinga; Anil Kumar Vuppala (International Institute of Information Technology Hyderabad, India)

🕒 15:00–17:00 **Mobile Presentra: NICT fast neural text-to-speech system on smartphones with incremental inference of MS-FC-HiFi-GAN for low-latency synthesis**

Takuma Okamoto; Yamato Ohtani (National Institute of Information and Communications Technology); Hisashi Kawai (NICT)

🕒 15:00–17:00 **Multi-speaker and multi-dialectal Catalan TTS models for video gaming**

Alex Peiró-Lilja (Barcelona Supercomputing Center (BSC), Spain; Centre de Llenguatge i Computació

(CLiC), Universitat de Barcelona, Spain); José Giraldo; Martí Llopart-Font; Carme Armentano-Oller; Baybars Külebi (Barcelona Supercomputing Center (BSC), Spain); Mireia Farrús (Centre de Llenguatge i Computació (CLiC), Universitat de Barcelona, Spain)

🕒 15:00–17:00 **Connectone: a modular AAC system prototype with contextual generative text prediction and style-adaptive conversational TTS**

Juliana Francis (Division of Speech, Music and Hearing, KTH Royal Institute of Technology, Stockholm, Sweden); Éva Székely; Joakim Gustafson (KTH Royal Institute of Technology)

🕒 15:00–17:00 **Reliable dialogue system for facilitating student-counselor communication**

Mahdin Rohmatillah; Bryan Gautama Ngo; Willianto Sulaiman; Po-Chuan Chen (Inst. of Electrical and Computer Engineering, National Yang Ming Chiao Tung University, Taiwan); Jen-Tzung Chien (National Yang Ming Chiao Tung University)

🕒 15:00–17:00 **ASGIR: audio spectrogram transformer guided classification and information retrieval for birds**

Yashwardhan Chaudhuri; Paridhi Mundra; Arnesh Bhatra (IIIT-Delhi, India); Orchid Chetia Phukan; Arun Balaji Buduru (IIIT Delhi)

🕒 15:00–17:00 **PERSONA: an application for emotion recognition, gender recognition and age estimation**

Devyani Koshal (IIIT-Delhi, India); Orchid Chetia Phukan (IIIT Delhi); Sarthak Jain (GGSIPU New Delhi, India); Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)

**GA - ISCA General Assembly**

**SPECIAL**

📍 **Panacea Amphitheater**

📅 **Monday 02 September 2024** 🕒 **17:30–19:00** **Session chairs :**

## Welcome - Welcome Reception

SOCIAL EVENT

📍 Hippocrates

📅 Monday 02 September 2024 ⌚  
19:00–20:30 **Session chairs :**



# Tuesday 3 September 2024

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## Keynote 2 - Shoko Araki

**Frontier of Frontend for Conversational Speech Processing**

📍 **Hippocrates**

📅 Tuesday 03 September 2024 ⌚  
08:30–09:30

## A13-O1 - Pathological Speech Analysis 1

ORAL 📍 **Panacea Amphitheater**

📅 Tuesday 03 September 2024 ⌚  
10:00–12:00 **Session chairs : Ning Ma, Okko Räsänen**

⌚ 10:00–10:40 - Blue Sky

**The MARRYS helmet: A new device for researching and training “jaw dancing”**

*Vidar Freyr Gudmundsson; Keve Márton Gönczi (University of Southern Denmark); Malin Svensson Lundmark (Lund University); Donna Erickson (Haskins labs); Oliver Niebuhr (University of Southern Denmark)*

⌚ 10:40–11:00 **Exploiting Foundation Models and Speech Enhancement for Parkinson’s Disease Detection from Speech in Real-World Operative Conditions**

*Moreno La Quatra; Maria Francesca Turco (Kore University of Enna); Torbjørn Svendsen; Giampiero Salvi (NTNU); Juan Rafael Orozco-Arroyave (University of Antioquia); Sabato Marco Siniscalchi (Università degli Studi di Palermo)*

⌚ 11:00–11:20 **Sustained Vowels for Pre- vs Post-Treatment COPD Classification**

*Andreas Triantafyllopoulos (Technical University of Munich); Anton Batliner (University of Munich); Wolfgang Mayr; Markus Fendler (University Hospital Augsburg); Florian Pokorny (Medical University of Graz); Maurice Gerczuk (University of Augsburg); Shahin Amiriparian (Technical University of Munich); Thomas Berghaus (Uni-*

*versity Hospital Augsburg); Björn W. Schuller (Imperial College London)*

⌚ 11:20–11:40 **Adversarial Robustness Analysis in Automatic Pathological Speech Detection Approaches**

*Mahdi Amiri (Idiap Research Institute; École Polytechnique Fédérale de Lausanne); Ina Kodrasi (Idiap Research Institute)*

⌚ 11:40–12:00 **Automatic Children Speech Sound Disorder Detection with Age and Speaker Bias Mitigation**

*Gahye Kim; Yunjung Eom (Sogang university); Selina S. Sung (University of Wisconsin-Madison, Sogang University); Seunghee Ha (Hallym University); Tae-Jin Yoon (Sungshin Women’s University); Jungmin So (Sogang University)*

## A8-O2 - Multilingual ASR

ORAL 📍 **lasso**

📅 Tuesday 03 September 2024 ⌚  
10:00–12:00 **Session chairs : Bhuvana Ramabhadran, Preethi Jyothi**

⌚ 10:00–10:20 **Continual Learning Optimizations for Auto-regressive Decoder of Multilingual ASR systems**

*Chin Yuen Kwok (Nanyang Technological University); Jia Qi Yip (Alibaba Group / Nanyang Technological University); Eng-Siong Chng (Nanyang Technological University)*

⌚ 10:20–10:40 **ML-SUPERB 2.0: Benchmarking Multilingual Speech Models Across Modeling Constraints, Languages, and Datasets**

*Jiatong Shi (Carnegie Mellon University); Shih-Heng Wang (National Taiwan University); William Chen (Carnegie Mellon University); Martijn Bartelds (Stanford University); Vanya Bannihatti Kumar; Jinchuan Tian; Xunkai Chang (Carnegie Mellon University); Dan Jurafsky (Stanford University); Karen Livescu (TTI-Chicago); Hung-yi Lee (National Taiwan University); Shinji Watanabe (Carnegie Mellon University)*

⌚ 10:40–11:00 **Weighted Cross-entropy for Low-Resource Languages in Multilingual Speech Recognition**

*Andrés Piñeiro-Martín (Balidea S.L. / Universidade de Vigo); Carmen García-Mateo; Laura Docio-Fernandez (Universidade de Vigo); María del Carmen López-Pérez (Balidea S.L.); Georg Rehm (DFKI)*

**11:00–11:20 M2ASR: Multilingual Multi-task Automatic Speech Recognition via Multi-objective Optimization**

*A F M Saif; Lisha Chen (Rensselaer Polytechnic Institute); Xiaodong Cui (IBM T. J. Watson Research Center); Songtao Lu (IBM Thomas J. Watson Research Center); Brian Kingsbury (IBM Research); Tianyi Chen (Rensselaer Polytechnic Institute)*

**11:20–11:40 MSR-86K: An Evolving, Multilingual Corpus with 86,300 Hours of Transcribed Audio for Speech Recognition Research**



*Song Li; Yongbin You; Xuezhi Wang; Zhengkun Tian; Ke Ding; Guanglu Wan (Meituan)*

**11:40–12:00 Improving Multilingual ASR Robustness to Errors in Language Input**

*Brady Houston (AWS AI Labs); Omid Sadjadi; Zejiang Hou (Amazon); Srikanth Vishnubhotla (AWS AI Labs); Kyu J. Han (Amazon Web Services)*

**A6-O2 - Generative Speech Enhancement**

ORAL  Melambus

 Tuesday 03 September 2024   
10:00–12:00 **Session chairs** : Minje Kim, Mehrez Souden

**10:00–10:20 Universal Score-based Speech Enhancement with High Content Preservation**

*Robin Scheibler (LINE Corporation); Yusuke Fujita (LY Corporation); Yuma Shirahata (LY Corp.); Tatsuya Komatsu (LY Corporation)*

**10:20–10:40 Genhancer: High-Fidelity Speech Enhancement via Generative Modeling on Discrete Codec Tokens**

*Haici Yang (Indiana University); Jiaqi Su (Adobe Research); Minje Kim (University of Illinois at Urbana-Champaign); Zeyu Jin (Adobe Research)*

**10:40–11:00 Schrödinger Bridge for Generative Speech Enhancement**

*Ante Jukić; Roman Korostik; Jagadeesh Balam; Boris Ginsburg (NVIDIA)*

**11:00–11:20 Thunder : Unified Regression-Diffusion Speech Enhancement with a Single Reverse Step using Brownian Bridge**

*Thanapat Trachu; Chawan Piansaddhayanon; Ekapol Chuangsuwanich (Chulalongkorn University)*

**11:20–11:40 Pre-training Feature Guided Diffusion Model for Speech Enhancement**

*Yiyuan Yang; Niki Trigoni; Andrew Markham (University of Oxford)*

**11:40–12:00 Guided conditioning with predictive network on score-based diffusion model for speech enhancement**

*Dail Kim; Da-Hee Yang; Donghyun Kim; Joon-Hyuk Chang (Hanyang University); Jeonghwan Choi; Moa Lee; Jaemo Yang; Han-gil Moon (Samsung Electronics)*

**A4-O2 - Spoofing and Deepfake Detection**

ORAL  Aegle A

 Tuesday 03 September 2024   
10:00–12:00 **Session chairs** : Ivan Kukanov, Massimiliano Todisco

**10:00–10:20 Source Tracing of Audio Deepfake Systems**

*Nicholas Klein (Pindrop Security); Tianxiang Chen (Pindrop Security Inc.); Hemlata Tak (Pindrop); Ricardo Casal (Pindrop Security Inc.); Elie Khoury (pindrop)*

**10:20–10:40 How Do Neural Spoofing Countermeasures Detect Partially Spoofed Audio?**

*Tianchi Liu (National University of Singapore); Lin Zhang (National Institute of Informatics); Rohan Kumar Das (Fortemedia); Yi Ma; Ruijie Tao (National University of Singapore); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)*



🕒 10:40–11:00 **Revisiting and Improving Scoring Fusion for Spoofing-aware Speaker Verification Using Compositional Data Analysis**

*Xin Wang (National Institute of Informatics); Tomi H. Kinunen (University of Eastern Finland); Kong Aik Lee (The Hong Kong Polytechnic University); Paul-Gauthier Noé (Laboratoire Informatique d'Avignon, Avignon Université); Junichi Yamagishi (National Institute of Informatics)*

🕒 11:00–11:20 **SecureSpectra: Safeguarding Digital Identity from Deep Fake Threats via Intelligent Signatures**

*Oguzhan Baser (The University of Texas at Austin); Kaan Kale (Bogazici University); Sandeep P. Chinchali (The University of Texas at Austin)*

🕒 11:20–11:40 **Interpretable Temporal Class Activation Representation for Audio Spoofing Detection**

*Menglu Li (Toronto Metropolitan University); Xiao-Ping Zhang (Toronto Metropolitan University)*

🕒 11:40–12:00 **DGPN: A Dual Graph Prototypical Network for Few-Shot Speech Spoofing Algorithm Recognition**

*Zirui Ge; Xinzhou Xu; Haiyan Guo; Tingting Wang (Nanjing University of Posts and Telecommunications); Zhen Yang (Nanjing University of Posts and Telecommunications); Björn W. Schuller (Imperial College London)*

**A2-O2 - Phonetics and Phonology of Second Language Acquisition**

ORAL 📍 Acesso

📅 Tuesday 03 September 2024 🕒 10:00–12:00 **Session chairs : Véronique Delvaux**

🕒 10:00–10:20 **Mmm whatcha say? Uncovering distal and proximal context effects in first and second-language word perception using psychophysical reverse correlation**

*Paige Tuttösi; H. Henny Yeung; Yue Wang; Fenqi Wang (Simon Fraser University); Guillaume Denis (Independent Web Developer); Jean-Julien Aucouturier (Institut FEMTO-ST); Angelica Lim (Simon Fraser University)*

🕒 10:20–10:40 **Automatic Speech Recognition with parallel L1 and L2 acoustic phone models to evaluate // allophony in L2 English speech production**

*Anisia Popescu (Université Paris Saclay - LISN); Lori Lamel (CNRS LISN); Ioana Vasilescu (LIMSI); Laurence Devillers (LISN-CNRS)*

🕒 10:40–11:00 **Analysis of articulatory setting for L1 and L2 English speakers using MRI data**

*Kevin Huang; Jack Goldberg; Louis Goldstein (University of Southern California); Shrikanth Narayanan (USC)*

🕒 11:00–11:20 **Bilingual Rhotic Production Patterns: A Generational Comparison of Spanish-English Bilingual Speakers in Canada**

*Ioana Colgiu (Western University); Laura Spinu (City University of New York - Kingsborough Community College); Rajiv Rao (University of Wisconsin-Madison); Yasaman Rafat (Western University)*

🕒 11:20–11:40 **Exploring Impact of Pausing and Lexical Stress Patterns on L2 English Comprehensibility in Real Time**

*Sylvain Coulange (Université Grenoble Alpes); Tsuneo Kato (Doshisha University); Solange Rossato (Univ. Grenoble Alpes); Monica Masperi (Université Grenoble Alpes)*

🕒 11:40–12:00 **Mandarin T3 Production by Chinese and Japanese Native Speakers**

*Qi Wu (University of Tsukuba)*

**A7-O3 - Speech Synthesis: Evaluation**

ORAL 📍 Hippocrates

📅 Tuesday 03 September 2024 🕒 10:00–12:00 **Session chairs : Jens Edlund**

🕒 10:00–10:20 **SVSNet+: Enhancing Speaker Voice Similarity Assessment Models with Representations from Speech Foundation Models**

*Chun Yin (National Yang Ming Chiao Tung University; Academia Sinica); Tai-Shih Chi (National Yang Ming Chiao Tung University); Yu Tsao; Hsin-Min Wang (Academia Sinica)*

**10:20–10:40 Enhancing Out-of-Vocabulary Performance of Indian TTS Systems for Practical Applications through Low-Effort Data Strategies**

*Srija Anand (AI4Bharat); Praveen Srinivasa Varadhan (Indian Institute of Technology Madras); Ashwin Sankar; Giri Raju (AI4Bharat); Mitesh M Khapra (Indian Institute of Technology Madras)*

**10:40–11:00 Assessing the impact of contextual framing on subjective TTS quality**

*Jens Edlund; Christina Tännander (KTH Royal Institute of Technology); Sébastien Le Maguer (University of Helsinki); Petra Wagner (Bielefeld University)*

**11:00–11:20 What do people hear? Listeners' Perception of Conversational Speech**

*Adaeze Adigwe; Sarenne Wallbridge; Simon King (University of Edinburgh)*

**11:20–11:40 Uncertainty-Aware Mean Opinion Score Prediction**

*Hui Wang; Shiwan Zhao; Jiaming Zhou (Nankai University); Xiguang Zheng (University of Wollongong); Haoqin Sun; Xuechen Wang; Yong Qin (Nankai University)*

**11:40–12:00 Lifelong Learning MOS Prediction for Synthetic Speech Quality Evaluation**

*Félix Saget; Meysam Shamsi; Marie Tahon (LIUM)*

**A3-P1-B - Analysis of Speakers States and Traits**

**POSTER** 📍 **Poster Area 1B**

📅 **Tuesday 03 September 2024** ⌚ **10:00–12:00** **Session chairs : Mark Hasegawa-Johnson**

**10:00–12:00 How rhythm metrics are linked to produced and perceived speaker charisma**

*Oliver Niebuhr (University of Southern Denmark); Nafiseh Taghva (Shiraz University)*

**10:00–12:00 A Functional Trade-off between Prosodic and Semantic Cues in Conveying Sarcasm**

*Zhu Li (University of Groningen); Xiyuan Gao (Groningen University); Yuqing Zhang; Shekhar Nayak; Matt Coler (University of Groningen)*

**10:00–12:00 Multimodal Belief Prediction**

*John Murzaku; Adil Soubki; Owen Rambow (Stony Brook University)*

**10:00–12:00 Detecting Empathy in Speech**

*Run Chen; Haozhe Chen; Anushka Kulkarni; Eleanor Lin; Linda Pang (Columbia University); Divya Tadimeti (UC Berkeley); Jun Shin; Julia Hirschberg (Columbia University)*

**10:00–12:00 Learning Representation of Therapist Empathy in Counseling Conversation Using Siamese Hierarchical Attention Network**

*Dehua Tao; Tan Lee; Harold Chui; Sarah Luk (The Chinese University of Hong Kong)*

**10:00–12:00 Modelling Lexical Characteristics of the Healthy Aging Population: A Corpus-Based Study**

*Han Kunmei (National University of Singapore)*

**10:00–12:00 Exploring Gender-Specific Speech Patterns in Automatic Suicide Risk Assessment**

*Maurice Gerczuk (University of Augsburg); Shahin Amiri-parian (Technical University of Munich); Justina Lutz; Wolfgang Strube; Irina Papazova; Alkomiet Hasan (District Hospital Augsburg); Björn W. Schuller (Imperial College London)*

**A3-P1-A - Corpora-based Approaches in Automatic Emotion Recognition**

**POSTER** 📍 **Poster Area 1A**

📅 **Tuesday 03 September 2024** ⌚ **10:00–12:00** **Session chairs : Emily Mower Provost**

🕒 10:00–12:00 **Reinforcement Learning based Data Augmentation for Noise Robust Speech Emotion Recognition**

Sumit Ranjan; Rupayan Chakraborty; Sunil Kumar Kopparapu (TCS Research)

🕒 10:00–12:00 **Unsupervised Domain Adaptation for Speech Emotion Recognition using K-Nearest Neighbors Voice Conversion**

Pravin Mote; Berrak Sisman (The University of Texas at Dallas); Carlos Busso (University of Texas at Dallas)

🕒 10:00–12:00 **Confidence-aware Hypothesis Transfer Networks for Source-Free Cross-Corpus Speech Emotion Recognition**

Jincen Wang (Southeast university); Yan Zhao; Cheng Lu; Hailun Lian (Southeast University); Hongli Chang (University of Electronic Science and Technology of China); Yuan Zong; Wenming Zheng (Southeast University)

🕒 10:00–12:00 **An Effective Local Prototypical Mapping Network for Speech Emotion Recognition**

Yuxuan Xi (National Engineering Research Center of Speech and Language Information Processing); Yan Song (USTC); Lirong Dai (University of Science and Technology of China); Haoyu Song (The Australian National University); Ian McLoughlin (Singapore Institute of Technology)

🕒 10:00–12:00 **Speech Emotion Recognition with Multi-level Acoustic and Semantic Information Extraction and Interaction**

Yuan Gao; Hao Shi; Chenhui Chu; Tatsuya Kawahara (Kyoto University)

**A8-P2 - General Topics in ASR**

📄 POSTER 📍 Poster Area 3A

📅 Tuesday 03 September 2024 🕒

10:00–12:00 **Session chairs : Néstor Becerra Yoma, Ondrej Klejch**

🕒 10:00–12:00 **Improving Domain-Specific ASR with LLM-Generated Contextual Descriptions**

Jiwon Suh (Hanyang University); Injae Na (Hanyang University); Woohwan Jung (Hanyang University)

🕒 10:00–12:00 **A Multitask Training Approach to Enhance Whisper with Open-Vocabulary Keyword Spotting**

Yuang Li; Min Zhang; Chang Su (Huawei); Yinglu Li (HUAWEI TECHNOLOGIES CO., LTD.); Xiaosong Qiao; Mengxin Ren; Miaomiao Ma; Daimeng Wei; Shimin Tao; Hao Yang (Huawei)

🕒 10:00–12:00 **CrisperWhisper: Accurate Timestamps on Verbatim Speech Transcriptions**

Mario Zusag (myReha GmbH); Laurin Wagner; Bernhad Thallinger (nyra health GmbH)

🕒 10:00–12:00 **On Disfluency and Non-lexical Sound Labeling for End-to-end Automatic Speech Recognition**

Peter Mihajlik; Yan Meng (BME-TMIT); Mate S Kadar (Budapest University of Technology and Economics); Julian Linke (TU Graz (SPSC)); Barbara Schuppler (Graz University of Technology); Katalin Mády (Hungarian Research Centre for Linguistics)

🕒 10:00–12:00 **Inclusive ASR for Disfluent Speech: Cascaded Large-Scale Self-Supervised Learning with Targeted Fine-Tuning and Data Augmentation**

Dena Mujtaba; Nihar R. Mahapatra; Megan Arney; J. Scott Yaruss (Michigan State University); Caryn Herring (Friends: The National Association of Young People Who Stutter); Jia Bin (Michigan State University)

🕒 10:00–12:00 **DualPure: An Efficient Adversarial Purification Method for Speech Command Recognition**

Hao Tan (Harbin Institute of Technology (Shenzhen)); Xiaochen Liu (Guangzhou University); Huan Zhang (Harbin Institute of Technology); Junjian Zhang (Guangzhou University); Yaguan Qian (Zhejiang University of Science and Technology); Zhaoquan Gu (Guangzhou University)

🕒 10:00–12:00 **A Comparative Analysis of Bilingual and Trilingual Wav2Vec Models for Automatic Speech Recognition in Multilingual Oral History Archives**

Jan Lehečka; Josef V. Psutka; Lubos Smidl; Pavel Ircing; Josef Psutka (University of West Bohemia)



🕒 10:00–12:00 **A layer-wise analysis of Mandarin and English suprasegmentals in SSL speech models**

*Anton de la Fuente (Stanford University); Dan Jurafsky (Stanford University)*

🕒 10:00–12:00 **Fine-Tuning Strategies for Dutch Dysarthric Speech Recognition: Evaluating the Impact of Healthy, Disease-Specific, and Speaker-Specific Data**

*Spyretta Leivaditi (University of Groningen); Tatsunari Matsushima (IGSA Inc.); Matt Coler; Shekhar Nayak; Vass Verkhodanova (University of Groningen)*

🕒 10:00–12:00 **Dysarthric Speech Recognition Using Curriculum Learning and Articulatory Feature Embedding**

*I-Ting Hsieh (National Cheng Kung University); Chung-Hsien Wu (National Cheng Kung University)*

🕒 10:00–12:00 **Enhancing Dysarthric Speech Recognition for Unseen Speakers via Prototype-Based Adaptation**

*Shiyao Wang; Shiwan Zhao; Jiaming Zhou; Aobo Kong; Yong Qin (Nankai University)*

🕒 10:00–12:00 **An efficient text augmentation approach for contextualized Mandarin speech recognition**

*Naijun Zheng; Xucheng Wan; Kai Liu; Ziqing Du (Huawei Technologies Co., Ltd.); Zhou Huan (AARC, Huawei Technologies Co., Ltd.)*

🕒 10:00–12:00 **Investigating ASR Error Correction with Large Language Model and Multilingual 1-best Hypotheses**

*Sheng Li (National Institute of Information & Communications Technology (NICT)); Chen Chen; Chin Yuen Kwok (Nanyang Technological University); Chenhui Chu (Kyoto University); Eng-Siong Chng (Nanyang Technological University); Hisashi Kawai (NICT)*

🕒 10:00–12:00 **Efficiently Train ASR Models that Memorize Less and Perform Better with Per-core Clipping**

*Lun Wang; Om Thakkar; Zhong Meng; Nicole Rafidi; Rohit Prabhavalkar (Google); Arun Narayanan (Google Inc.)*

**A5-P2-A - Audio Captioning, Tagging, and Audio-Text Retrieval**

POSTER

📍 Poster Area 2A

📅 Tuesday 03 September 2024 🕒 10:00–12:00 **Session chairs** : David Doukhan

🕒 10:00–12:00 **PFCA-Net: Pyramid Feature Fusion and Cross Content Attention Network for Automated Audio Captioning**

*Jianyuan Sun (University of Sheffield); Wenwu Wang; Mark D. Plumbley (University of Surrey)*

🕒 10:00–12:00 **Enhancing Automated Audio Captioning via Large Language Models with Optimized Audio Encoding**

*Jizhong Liu; Gang Li; Junbo Zhang; Heinrich Dinkel; Yongqing Wang; Zhiyong Yan; Yujun Wang (xiaomi); Bin Wang (Xiaomi AI Lab)*

🕒 10:00–12:00 **Audio-text Retrieval with Transformer-based Hierarchical Alignment and Disentangled Cross-modal Representation**

*Yifei Xin; Zhihong Zhu; Xuxin Cheng; Xusheng Yang; Yuexian Zou (Peking University)*

🕒 10:00–12:00 **Streaming Audio Transformers for Online Audio Tagging**

*Heinrich Dinkel; Zhiyong Yan; Yongqing Wang; Junbo Zhang; Yujun Wang (xiaomi); Bin Wang (Xiaomi AI Lab)*

🕒 10:00–12:00 **Efficient CNNs with Quaternion Transformations and Pruning for Audio Tagging**

*Aryan Chaudhary (IIIT Delhi); Arshdeep Singh (University of Surrey); Vinayak Abrol (Indraprastha Institute of Technology Delhi); Mark D. Plumbley (University of Surrey)*

🕒 10:00–12:00 **ParaCLAP – Towards a general language-audio model for computational paralinguistic tasks**

*Xin Jing; Andreas Triantafyllopoulos (Technische Universität München); Björn W. Schuller (Imperial College London)*

🕒 10:00–12:00 **Efficient Audio Captioning with Encoder-Level Knowledge Distillation**

Xuenan Xu (Shanghai Jiao Tong University); Haohe Liu (University of Surrey); Mengyue Wu (Shanghai Jiao Tong University); Wenwu Wang; Mark D. Plumbley (University of Surrey)

**A12-P2-B - Speech and Multimodal Resources**

📄 **POSTER** 📍 **Poster Area 4B**

📅 **Tuesday 03 September 2024** 🕒 **10:00–12:00** **Session chairs : David Harwath**

🕒 10:00–12:00 **BESST Dataset: A Multimodal Resource for Speech-based Stress Detection and Analysis**

Jan Pešán (Faculty of Information Technology - Brno University of Technology); Vojtěch Juřík (Faculty of Civil Engineering - Brno University of Technology); Martin Karafiát (BUT speech@fit); Jan Honza Cernocky (Brno University of Technology)

🕒 10:00–12:00 **HebDB: a Weakly Supervised Dataset for Hebrew Speech Processing**

Arnon Turetzky (Hebrew University of Jerusalem); Or Tal (The Hebrew University of Jerusalem); Yael Segal (Technion); Yehoshua Dissen (Technion - Israel Institute of Technology); Ella Zeldes; Amit Roth (The Hebrew University of Jerusalem); Eyal Cohen; Yosi Shrem; Bronya R. Chernyak (Technion - Israel Institute of Technology); Olga Seleznova (Technion); Joseph Keshet (Technion - Israel Institute of Technology); Yossi Adi (The Hebrew University of Jerusalem)

🕒 10:00–12:00 **GLOBE: A High-quality English Corpus with Global Accents for Zero-shot Speaker Adaptive Text-to-Speech**

Wenbin Wang; Yang Song; Sanjay Jha (University of New South Wales)

🕒 10:00–12:00 **STraDa: A Singer Traits Dataset**

Yuxuan Kong; Viet-Anh Tran (Deezer); Romain Hennequin (Deezer Research)

🕒 10:00–12:00 **MaViLS, a Benchmark Dataset for Video-to-Slide Alignment, As-**

**sessing Baseline Accuracy with a Multimodal Alignment Algorithm Leveraging Speech, OCR, and Visual Features**

Katharina Anderer (Karlsruhe Institute of Technology); Andreas Reich (University of Hohenheim); Matthias Wölfel (Karlsruhe University of Applied Sciences)

🕒 10:00–12:00 **MultiTalk: Enhancing 3D Talking Head Generation Across Languages with Multilingual Video Dataset**

Kim Sung-Bin; Lee Chae-Yeon (POSTECH); Gihun Son (Inha University); Oh Hyun-Bin (POSTECH); Janghoon Ju (KRAFTON); Suekyeong Nam (KRAFTON Inc.); Tae-Hyun Oh (POSTECH)

🕒 10:00–12:00 **Towards measuring fairness in speech recognition: Fair-Speech dataset**

Irina-Elena Veliche (Meta); Zhuangqun Huang (Meta AI); Vineeth Ayyat Kochaniyan (apex fintech services LLC); Fuchun Peng; Ozlem Kalinli; Michael L. Seltzer (Meta)

🕒 10:00–12:00 **Codecfake: An Initial Dataset for Detecting LLM-based Deepfake Audio**

Yi Lu (State Key Laboratory of Multimodal Artificial Intelligence Systems, Institute of Automation, Chinese Academy of Sciences); Yuankun Xie (Communication University of China); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Zhengqi Wen (CASIA); Jianhua Tao (Tsinghua University); Zhiyong Wang; Xin Qi (University of Chinese Academy of Sciences); Xuefei Liu (Qiyuan Lab); Yongwei Li (Chinese Academy of Sciences); Yukun Liu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Xiaopeng Wang (UCAS); Shuchen Shi (Shanghai Polytechnic University)

🕒 10:00–12:00 **SER Evals: In-domain and Out-of-domain benchmarking for speech emotion recognition**

Mohamed Osman; Daniel Z. Kaplan; Tamer Nadeem (Virginia Commonwealth University)

**A12-P2-A - Spoken Language Understanding**

📄 **POSTER** 📍 **Poster Area 4A**

📅 **Tuesday 03 September 2024** 🕒 **10:00–12:00** **Session chairs : Koichiro Yoshino**



🕒 10:00–12:00 **AR-NLU: A Framework for Enhancing Natural Language Understanding Model Robustness against ASR Errors**

*Emmy Phung; Harsh Deshpande (JP Morgan Chase & Co.); Ahmad Emami (JP Morgan); Kanishk Singh (Columbia University)*

🕒 10:00–12:00 **Prompting Whisper for QA-driven Zero-shot End-to-end Spoken Language Understanding**

*Mohan Li; Simon Keizer; Rama Doddipatla (Toshiba Europe LTD)*

🕒 10:00–12:00 **VN-SLU: A Vietnamese Spoken Language Understanding Dataset**

*Tuyen Tran; Khanh Le; Ngoc Dang Nguyen; Minh Vu; Huyen Ngo (Hanoi University of Science and Technology); Woomyoung Park (Naver Corporation); Thi Thu Trang Nguyen (Hanoi University of Science and Technology)*

🕒 10:00–12:00 **Textless Dependency Parsing by Labeled Sequence Prediction**

*Shunsuke Kando (The University of Tokyo); Yusuke Miyao (University of Tokyo); Jason Naradowsky (Square-Enix); Shinnosuke Takamichi (The University of Tokyo)*

🕒 10:00–12:00 **Towards Speech Classification from Acoustic and Vocal Tract data in Real-time MRI**

*Yaoyao Yue (The University of Sydney); Michael Proctor (Macquarie University); Luping Zhou (University of Sydney); Rijul Gupta; Tharinda Piyadasa (The University of Sydney); Amelia Gully (University of York); Kirrie Ballard (University of Sydney); Craig Jin (The University of Sydney)*

🕒 10:00–12:00 **Efficient SQA from Long Audio Contexts: A Policy-driven Approach**

*Alexander Johnson (UCLA); Peter Plantinga (JP Morgan Chase & Co.); Pheobe Sun; Swaroop Gadiyaram; Abenezer Girma (JP Morgan Chase & Co.); Ahmad Emami (JP Morgan)*

**SS5A - Speech and Language in Health: from Remote Monitoring to Medical Conversations - 1 (Special Session)**

POSTER 📍 Yanis Club

📅 Tuesday 03 September 2024 🕒 10:00–12:00 **Session chairs : Nick Cummins, Tanya Talkar**

🕒 10:00–12:00 **Reference-Free Estimation of the Quality of Clinical Notes Generated from Doctor-Patient Conversations**

*Mojtaba Kadkhodaie Elyaderani (3M Health Information Systems); John Glover (3M | Health Information Systems / DSC); Thomas Schaaf (Solventum | Health Information Systems / M\*Modal)*

🕒 10:00–12:00 **Developing an End-to-End Framework for Predicting the Social Communication Severity Scores of Children with Autism Spectrum Disorder**

*Jihyun Mun; Sunhee Kim; Minhwa Chung (Seoul National University)*

🕒 10:00–12:00 **Multimodal Fusion for Vocal Biomarkers Using Vector Cross-Attention**

*Vladimir Despotovic; Abir Elbéji; Petr V. Nazarov; Guy Fagherazzi (Luxembourg Institute of Health)*

🕒 10:00–12:00 **Revealing Confounding Biases: A Novel Benchmarking Approach for Aggregate-Level Performance Metrics in Health Assessments**

*Stefano Gorla; Roseline Polle; Salvatore Fara (thymia); Nicholas Cummins (King's College London)*

🕒 10:00–12:00 **Developing Multi-Disorder Voice Protocols: A team science approach involving clinical expertise, bioethics, standards, and DEI.**

*Yael Bensoussan (University of South Florida); Satrijit Ghosh (MIT); Anais Rameau (Weil Cornell Medicine); Micah Boyer; Ruth Bahr; Stephanie Watts (University of South Florida); Frank Rudzicz (University of Toronto); Don Bolser; Jordan Lerner-Ellis (University of South Florida)*

of South Florida); Shaheen Awan (University of South Florida); Maria Powell (Vanderbilt University Medical Center); Jean-Christophe Belisle-Pipon (Simon Fraser University); Vardit Ravitsky (Hasting Center); Alistair Johnson (Glowry); Alexandros Sigaras; Olivier Elemento (Weill Cornell); David Dorr (OHSU); Philip Payne (Washington University in St. Louis)

**10:00–12:00 Self-Supervised Embeddings for Detecting Individual Symptoms of Depression**

Sri Harsha Dumpala (Dalhousie University/Vector Institute); Katerina Dikaios (McMaster University); Abraham Nunes; Frank Rudzicz; Rudolf Uher (Dalhousie University); Sageev Oore (Dalhousie University/Vector Institute)

**10:00–12:00 Comparing ambulatory voice measures during daily life with brief laboratory assessments in speakers with and without vocal hyperfunction**

Daryush D. Mehta (MGH); Jarrad H. Van Stan (Mass General, Harvard Medical School, MGH IHP); Hamzeh Ghasemzadeh; Robert E. Hillman (Massachusetts General Hospital)

**10:00–12:00 Predicting Acute Pain Levels Implicitly from Vocal Features**

Jennifer Williams (University of Southampton); Eike Schneiders (University of Nottingham); Henry Card; Tina Seabrooke; Beatrice Pakenham-Walsh; Tayyaba Azim (University of Southampton); Lucy Valls-Reed (Southampton University); Ganesh Vigneswaran (University of Southampton); John Robert Bautista (University of Missouri-Columbia); Rohan Chandra (UT Austin); Arya Farahi (University of Texas at Austin)

**10:00–12:00 Towards Intelligent Speech Assistants in Operating Rooms: A Multimodal Model for Surgical Workflow Analysis**

Kubilay Can Demir (Friedrich-Alexander Universität Erlangen-Nürnberg); Belén Lojo Rodríguez; Tobias Weise (Friedrich-Alexander-Universität Erlangen-Nürnberg); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nuremberg); Seung Hee Yang (Friedrich-Alexander Universität Erlangen-Nürnberg (FAU))

**10:00–12:00 A Multimodal Framework for the Assessment of the Schizophrenia Spectrum**

Gowtham Premananth (University of Maryland); Yashish M. Siriwardena (University of Maryland College Park); Philip Resnik (University of Maryland); Sonia Bansal; Deanna L.Kelly (University of Maryland School of Medicine); Carol Espy-Wilson (University of Maryland)

**A9-O2 - Vision and Speech**

**ORAL** **Aegle B**

**Tuesday 03 September 2024**  
**13:30–15:30 Session chairs : Olivier Siohan, Arda Senocak**

**13:30–14:10 - Survey Talk**

**Visually grounded speech models**

David Harwath (The University of Texas at Austin)

**14:10–14:30 AVCap: Leveraging Audio-Visual Features as Text Tokens for Captioning**

Jongsuk Kim; Jiwon Shin; Junmo Kim (KAIST)

**14:30–14:50 LipGER: Visually-Conditioned Generative Error Correction for Robust Automatic Speech Recognition**

Sreyan Ghosh; Sonal Kumar (University of Maryland, College Park); Ashish Seth (IIT Madras); Purva Chiniya (Cisco Systems); Utkarsh Tyagi (University of Maryland, College Park); Ramani Duraiswami (The University of Maryland); Dinesh Manocha (University of Maryland at College Park)

**14:50–15:10 Joint Speaker Features Learning for Audio-visual Multichannel Speech Separation and Recognition**

Guinan Li (Chinese University of HongKong); Jiajun Deng (The Chinese University of HongKong); Youjun Chen (The Chinese University of Hong Kong); Mengzhe Geng (National Research Council Canada); Shujie Hu (The Chinese University of Hong Kong); Zhe Li (Hong Kong Polytechnic University); Zengrui Jin (The Chinese University of Hong Kong); Tianzi Wang (The Chinese University of HongKong); Xurong Xie (Institute of Software, Chinese Academy of Sciences); Helen Meng; Xunying Liu (The Chinese University of Hong Kong)

**15:10–15:30 CNVSR 2023: The First Chinese Continuous Visual Speech Recognition Challenge**

Chen Chen (Tsinghua University); Zehua Liu; Xiaolou Li; Lantian Li (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University)


## A3-O2 - Emotion Recognition: Resources and Benchmarks

ORAL  Aegle A

 Tuesday 03 September 2024   
13:30–15:30 **Session chairs : Yoshiko Arimoto**

 13:30–13:50 **EmoBox: Multilingual Multi-corpus Speech Emotion Recognition Toolkit and Benchmark**

Ziyang Ma (Shanghai Jiao Tong University); Mingjie Chen (University of Sheffield); Hezhao Zhang (The University of Sheffield); Zhisheng Zheng; Wenxi Chen; Xiquan Li (Shanghai Jiao Tong University); Jiabin Ye (Fudan University); Xie Chen (Shanghai Jiaotong University); Thomas Hain (University of Sheffield)

 13:50–14:10 **INTERSPEECH 2009 Emotion Challenge Revisited: Benchmarking 15 Years of Progress in Speech Emotion Recognition**

Andreas Triantafyllopoulos (Technical University of Munich); Anton Batliner (University of Munich); Simon Rampp; Manuel Milling (University of Augsburg); Björn W. Schuller (Imperial College London)

 14:10–14:30 **What Does it Take to Generalize SER Model Across Datasets? A Comprehensive Benchmark**

Adham Ibrahim (MBZUAI); Shady Shehata (Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)); Ajinkya Kulkarni (ValidSoft MBZUAI); Mukhtar Mohamed (Mohamed bin Zayed University of Artificial Intelligence); Muhammad Abdul-Mageed (iSchool@UBC)


 14:30–14:50 **WHISER: White House Tapes Speech Emotion Recognition Corpus**

Abinay Reddy Naini; Lucas Goncalves (The University of Texas at Dallas); Mary A. Kohler; Donita Robinson; Elizabeth Richerson (Laboratory for Analytic Sciences, North Carolina State University); Carlos Busso (University of Texas at Dallas)

 14:50–15:10 **Evaluating Transformer-Enhanced Deep Reinforcement Learning for**

## Speech Emotion Recognition

Siddique Latif; Raja Jurdak (Queensland University of Technology); Björn W. Schuller (Imperial College London)


 15:10–15:30 **Boosting Cross-Corpus Speech Emotion Recognition using CycleGAN with Contrastive Learning**

Jincen Wang (Southeast university); Yan Zhao; Cheng Lu (Southeast University); Chuangao Tang (Nanjing Institute of Technology); Sunan Li; Yuan Zong; Wenming Zheng (Southeast University)

## A12-O2 - Spoken Document Summarization

ORAL  Melambus

 Tuesday 03 September 2024   
13:30–15:30 **Session chairs : Karen Livescu**

 13:30–13:50 **Optimizing the role of human evaluation in LLM-based spoken document summarization systems**

Margaret Kroll (Cisco Systems); Kelsey Kraus (Cisco Systems)

 13:50–14:10 **Key-Element-Informed sLLM Tuning for Document Summarization**

Sangwon Ryu; Heejin Do (POSTECH); Yunsu Kim (aiXplain, Inc.); Gary Geunbae Lee; Jungseul Ok (POSTECH)

 14:10–14:30 **Sentence-wise Speech Summarization: Task, Datasets, and End-to-End Modeling with LM Knowledge Distillation**

Kohei Matsuura; Takanori Ashihara; Takafumi Moriya (NTT); Masato Mimura; Takatomo Kano; Atsunori Ogawa (NTT Corporation); Marc Delcroix (NTT)

 14:30–14:50 **An End-to-End Speech Summarization Using Large Language Model**

Hengchao Shang; ZongYao Li (HW-TSC); Jiabin Guo (Huawei); Shaojun Li (Huawei TSC); Zhiqiang Rao; Yuanchang Luo; Daimeng Wei; Hao Yang (Huawei)

 14:50–15:10 **Prompting Large Language Models with Audio for General-Purpose Speech Summarization**



Wonjune Kang (Massachusetts Institute of Technology);  
Deb Roy (Massachusetts Institute of Technology)

🕒 15:10–15:30 **Real-time Speech Summarization for Medical Conversations**

Khai Le-Duc (University of Toronto); Khai-Nguyen Nguyen (College of William and Mary); Long Vo-Dang (University of Cincinnati); Truong-Son Hy (Indiana State University)

**A1-O2 - Speech and Brain**

ORAL 📍 Acesso

📅 Tuesday 03 September 2024 🕒  
13:30–15:30 **Session chairs :**

🕒 13:30–13:50 **Exploring the Complementary Nature of Speech and Eye Movements for Profiling Neurological Disorders**

Yuzhe Wang; Anna Favaro; Thomas Thebaud; Jesus Villalba; Najim Dehak; Laureano Moro-Velazquez (Johns Hopkins University)

🕒 13:50–14:10 **Refining Self-supervised Learnt Speech Representation using Brain Activations**

HengYu Li; Kangdi Mei; Zhaoci Liu; Yang Ai; Liping Chen (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC)); Zhen-Hua Ling (University of Science and Technology of China)

🕒 14:10–14:30 **Large Language Model-based FMRI Encoding of Language Functions for Subjects with Neurocognitive Disorder**

Yuejiao Wang; Xianmin Gong; Lingwei Meng; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

🕒 14:30–14:50 **From Sound to Meaning in the Auditory Cortex: A Neuronal Representation and Classification Analysis**

Kumar Neelabh (IIIT Hyderabad); Vishnu Sreekumar (International Institute of Information Technology, Hyderabad)

🕒 14:50–15:10 **Towards an End-to-End Framework for Invasive Brain Signal Decoding with Large Language Models**

Sheng Feng; Heyang Liu; Yu Wang (Shanghai Jiao Tong University); Yanfeng Wang (Cooperative medianet innovation center of Shanghai Jiao Tong University)

🕒 15:10–15:30 **Toward Fully-End-to-End Listened Speech Decoding from EEG Signals**

Jihwan Lee; Aditya Kommineni; Tiantian Feng; Kleanthis Avramidis; Xuan Shi; Sudarsana Reddy Kadiri; Shrikanth Narayanan (University of Southern California)

**A8-O3 - LLM in ASR**

ORAL 📍 Iasso

📅 Tuesday 03 September 2024 🕒  
13:30–15:30 **Session chairs : Ahmed Ali**

🕒 13:30–14:10 - Survey Talk  
**Development of Spoken Language Models**  
Hung-yi Lee (National Taiwan University)

🕒 14:10–14:30 **Speech Prefix-Tuning with RNNT Loss for Improving LLM Predictions**

Murali Karthick Baskar (Google Inc); Andrew Rosenberg (Google LLC); Bhuvana Ramabhadran; Neeraj Gaur; Zhong Meng (Google)

🕒 14:30–14:50 **Speech ReaLLM – Real-time Speech Recognition with Multimodal Language Models by Teaching the Flow of Time**

Frank Seide; Yangyang Shi (Meta Platforms, Inc.); Morrie Doulaty (Meta); Yashesh Gaur; Junteng Jia; Chunyang Wu (Meta Platforms, Inc.)

🕒 14:50–15:10 **A Transcription Prompt-based Efficient Audio Large Language Model for Robust Speech Recognition**

Yangze Li (Northwestern Polytechnical University); Xiong Wang; Songjun Cao; Yike Zhang; Long Ma (Tencent); Lei Xie (NWPU)

🕒 15:10–15:30 **Pinyin Regularization in Error Correction for Chinese Speech Recognition with Large Language Models**

Zhiyuan Tang (Tencent); Dong Wang (Tsinghua University); Shen Huang (Tencent Research); Shidong Shang (tencent)

## A5-O3 - Audio-Text Retrieval

ORAL 📍 Panacea Amphitheater

📅 Tuesday 03 September 2024 ⌚  
13:30–15:30 **Session chairs : Xiangdong Wang**

⌚ 13:30–13:50 **DiffATR: Diffusion-based Generative Modeling for Audio-Text Retrieval**

*Yifei Xin; Xuxin Cheng; Zhihong Zhu; Xusheng Yang; Yuexian Zou (Peking University)*

⌚ 13:50–14:10 **Bridging Language Gaps in Audio-Text Retrieval**

*Zhiyong Yan; Heinrich Dinkel; Yongqing Wang; Jizhong Liu; Junbo Zhang; Yujun Wang (xiaomi); Bin Wang (Xiaomi AI Lab)*

⌚ 14:10–14:30 **Domain Adaptation for Contrastive Audio-Language Models**

*Soham Deshmukh (Microsoft); Rita Singh; Bhiksha Raj (Carnegie Mellon University)*

⌚ 14:30–14:50 **tinyCLAP: Distilling Contrastive Language-Audio Pretrained Models**

*Francesco Paissan (Fondazione Bruno Kessler); Elisabetta Farella (Fondazione Bruno Kessler)*

⌚ 14:50–15:10 **BTS: Bridging Text and Sound Modalities for Metadata-Aided Respiratory Sound Classification**

*June-Woo Kim (Kyungpook National University); Mika Toikkanen (MODULABS); Yera Choi (NAVER Digital Healthcare LAB, NAVER Cloud); Seoung-Eun Moon (NAVER Digital Healthcare LAB); Ho-Young Jung (Kyungpook National University)*

⌚ 15:10–15:30 **Enhanced Feature Learning with Normalized Knowledge Distillation for Audio Tagging**

*Yuwu Tang; Ziang Ma; Haitao Zhang (Hangzhou Huacheng Network Technology Co., Ltd.)*

## A7-O4 - Speech Synthesis: Singing Voice Synthesis

ORAL 📍 Hippocrates

📅 Tuesday 03 September 2024 ⌚  
13:30–15:30 **Session chairs : Jianhua Tao, Yukiya Hono**

⌚ 13:30–13:50 **MakeSinger: A Semi-Supervised Training Method for Data-Efficient Singing Voice Synthesis via Classifier-free Diffusion Guidance**

*Semin Kim; Myeonghun Jeong; Hyeonseung Lee; Minchan Kim; Byoung Jin Choi; Nam Soo Kim (Seoul National University)*

⌚ 13:50–14:10 **Challenge of Singing Voice Synthesis Using Only Text-To-Speech Corpus With FIRNet Source-Filter Neural Vocoder**

*Takuma Okamoto; Yamato Ohtani (National Institute of Information and Communications Technology); Sota Shimizu (Kobe University); Tomoki Toda (Nagoya University); Hisashi Kawai (NICT)*

⌚ 14:10–14:30 **Period Singer: Integrating Periodic and Aperiodic Variational Autoencoders for Natural-Sounding End-to-End Singing Voice Synthesis**

*Taewoo Kim; Choonsang Cho; Young Han Lee (Korea Electronics Technology Institute)*

⌚ 14:30–14:50 **Singing Voice Data Scaling-up: An Introduction to ACE-Openpop and ACE-KiSing**

*Jiatong Shi (Carnegie Mellon University); Yueqian Lin (Duke University); Xinyi Bai (Cornell University); Keyi Zhang (Imperial College London); Yuning Wu; Yuxun Tang (Renmin University of China); Yifeng Yu (Georgia Institute of Technology); Qin Jin (Renmin University of China); Shinji Watanabe (Carnegie Mellon University)*

⌚ 14:50–15:10 **X-Singer: Code-Mixed Singing Voice Synthesis via Cross-Lingual Learning**

*Ji-Sang Hwang (Netmarble AI Center); Hyeongrae Noh; Yoonseok Hong; Insoo Oh (Netmarble AI Center)*



🕒 15:10–15:30 **An End-to-End Approach for Chord-Conditioned Song Generation**

Shuochen Gao; Shun Lei (Tsinghua University); Fan Zhuo; Hangyu Liu (Kunlun Skywork Technology Co., Ltd.); Feng Liu (Kunlun Skywork Technology Co., Ltd.); Boshi Tang; Qiaochu Huang (Tsinghua University); Shiyin Kang (Kunlun Skywork Technology Co., Ltd.); Zhiyong Wu (Tsinghua University)

**A7-P1-B - Speech Synthesis: Tools and Data**

📄 POSTER 📍 Poster Area 4B

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **SRC4VC: Smartphone-Recorded Corpus for Voice Conversion Benchmark**

Yuki Saito ("The University of Tokyo, Japan"); Takuto Igarashi; Kentaro Seki; Shinnosuke Takamichi (The University of Tokyo); Ryuichi Yamamoto; Kentaro Tachibana (LY Corp.); Hiroshi Saruwatari (The University of Tokyo)

🕒 13:30–15:30 **Rasa: Building Expressive Speech Synthesis Systems for Indian Languages in Low-resource Settings**

Praveen Srinivasa Varadhan (Indian Institute of Technology Madras); Ashwin Sankar; Giri Raju (AI4Bharat); Mitesh M Khapra (Indian Institute of Technology Madras)

🕒 13:30–15:30 **FLEURS-R: A Restored Multilingual Speech Corpus for Generation Tasks**

Min Ma; Yuma Koizumi; Shigeki Karita (Google DeepMind); Heiga Zen; Jason Riesa (Google); Haruko Ishikawa (Google DeepMind); Michiel Bacchiani (Google)

🕒 13:30–15:30 **WenetSpeech4TTS: A 12,800-hour Mandarin TTS Corpus for Large Speech Generation Model Benchmark**

Linhan Ma; Dake Guo; Kun Song; Yuepeng Jiang (Northwestern Polytechnical University); Shuai Wang (Shenzhen Research Institute of Big Data, Chinese University of Hong Kong (Shenzhen)); Liumeng Xue (Northwestern Polytechnical University); Weiming Xu (Northwest Polytechnic University); Huan Zhao (Northwestern Polytechnical University); Binbin Zhang (WeNet Open Source Community); Lei Xie (NWPU)

🕒 13:30–15:30 **MSceneSpeech: A Multi-Scene Speech Dataset For Expressive Speech Synthesis**

Qian Yang; Jialong Zuo; Zhe Su; Ziyue Jiang; Mingze Li; Zhou Zhao (Zhejiang University); Feiyang Chen; Zhefeng Wang; Baoxing Huai (Huawei Cloud)

🕒 13:30–15:30 **LibriTTS-P: A Corpus with Speaking Style and Speaker Identity Prompts for Text-to-Speech and Style Captioning**

Masaya Kawamura; Ryuichi Yamamoto; Yuma Shirahata (LY Corp.); Takuya Hasumi (LY Corporation); Kentaro Tachibana (LINE Corp.)

🕒 13:30–15:30 **1000 African Voices: Advancing inclusive multi-speaker multi-accent speech synthesis**

Sewade Ogun (Inria); Abraham T. Owodunni (Intron Health); Tobi Olatunji (Intron Inc); Eniola Alese; Babatunde Oladimeji (Amazethu); Tejumade Afonja (CISPA Helmholtz Center for Information Security, Saarland University, and AI Saturdays Lagos); Kayode Olaleye (University of Pretoria); Naome A. Etori (University of Minnesota-Twin Cities); Tosin Adewumi (EISLAB, Machine Learning Group)

🕒 13:30–15:30 **SaSLaW: Dialogue Speech Corpus with Audio-visual Egocentric Information Toward Environment-adaptive Dialogue Speech Synthesis**

Osamu Take; Shinnosuke Takamichi; Kentaro Seki (The University of Tokyo); Yoshiaki Bando (National Institute of Advanced Industrial Science and Technology); Hiroshi Saruwatari (The University of Tokyo)

**A7-P1-A - Speech Synthesis: Expressivity and Emotion**

📄 POSTER 📍 Poster Area 4A

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs : Tuomo Raitio**

🕒 13:30–15:30 **GTR-Voice: Articulatory Phonetics Informed Controllable Expressive Speech Synthesis**

Zehua Kcriss Li; Meiyong Melissa Chen (University of Rochester); Yi Zhong (Independent Researcher); Pinxin Liu (University of Rochester); Zhiyao Duan (University of Rochester)

🕒 13:30–15:30 **TSP-TTS: Text-based Style Predictor with Residual Vector Quantization for Expressive Text-to-Speech**

Donghyun Seong; Hoyoung Lee; Joon-Hyuk Chang (Hanyang University)

🕒 13:30–15:30 **Spontaneous Style Text-to-Speech Synthesis with Controllable Spontaneous Behaviors Based on Language Models**

Weiqin Li (Tsinghua University); Peiji Yang (Tencent Technology (Shenzhen) Co.Ltd); Yicheng Zhong (Tencent Technology (Shenzhen) Company Li); Yixuan Zhou (Tsinghua University); Zhisheng Wang (Tencent); Zhiyong Wu (Tsinghua University); Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

🕒 13:30–15:30 **Text-aware and Context-aware Expressive Audiobook Speech Synthesis**

Dake Guo; Xinfu Zhu; Liumeng Xue (Northwestern Polytechnical University); Yongmao Zhang (Audio, Speech and Language Processing Group (ASLP@NPU), School of Computer Science, Northwestern Polytechnical University, Xi'an, China); Wenjie Tian (Northwestern Polytechnical University); Lei Xie (NWPU)

🕒 13:30–15:30 **Controlling Emotion in Text-to-Speech with Natural Language Prompts**

Thomas Bott; Florian Lux; Ngoc Thang Vu (University of Stuttgart)

🕒 13:30–15:30 **Retrieval Augmented Generation in Prompt-based Text-to-Speech Synthesis with Context-Aware Contrastive Language-Audio Pretraining**

Jinlong Xue; Yayue Deng; Yingming Gao; Ya Li (Beijing University of Posts and Telecommunications)

🕒 13:30–15:30 **Emotion Arithmetic: Emotional Speech Synthesis via Weight Space Interpolation**

Pavan Kalyan (IIT Bombay); Preeti Rao (Indian Institute of Technology Bombay); Preethi Jyothi (Indian Institute of

Technology Bombay); Pushpak Bhattacharyya (IIT Bombay)

🕒 13:30–15:30 **EmoSphere-TTS: Emotional Style and Intensity Modeling via Spherical Emotion Vector for Controllable Emotional Text-to-Speech**

Deok-Hyeon Cho; Hyung-Seok Oh; Seung-Bin Kim (Korea University); Sang-Hoon Lee (Ajou University); Seong-Whan Lee (Korea University)

🕒 13:30–15:30 **Expressive paragraph text-to-speech synthesis with multi-step variational autoencoder**

Xuyuan Li; Zengqiang Shang; Peiyang Shi (The Institute of Acoustics of the Chinese Academy of Sciences); Hua Hua (Key Laboratory of Speech Acoustics and Content Understanding, Institute of Acoustics, China); Ta Li; Pengyuan Zhang (Institute of Acoustics, Chinese Academy of Sciences)

🕒 13:30–15:30 **Differentiable Time-Varying Linear Prediction in the Context of End-to-End Analysis-by-Synthesis**

Chin-Yun Yu (Queen Mary University of London); György Fazekas (QMUL)

**A2-P1-B - Voice, Tones and F0**

POSTER 📍 Poster Area 1B

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **Impact of the tonal factor on diphthong realizations in Standard Mandarin with Generalized Additive Mixed Models**

Chenyu Li (Université Paris Cité, CNRS, LLF); Jalal Al-Tamimi (Université Paris Cité, CNRS, LLF)

🕒 13:30–15:30 **A Study on the Information Mechanism of the 3rd Tone Sandhi Rule in Mandarin Disyllabic Words**

Liu Xiaowang (Beijing Language and Culture University); Jinsong Zhang (Beijing Language and Culture University)

🕒 13:30–15:30 **Gender and age based f0-variation in the German Plapper Corpus**

Melanie Weirich (Friedrich-Schiller-University Jena); Daniel Duran (Leibniz-Zentrum Allgemeine Sprachwissenschaft (ZAS)); Stefanie Jannedy (Leibniz-ZAS Berlin)

Constantijn Kaland (Institute of Linguistics - University of Cologne); Jeremy Steffman (Linguistics and English Language - University of Edinburgh); Jennifer Cole (Northwestern University)

🕒 13:30–15:30 **Voice quality in telephone speech: Comparing acoustic measures between VoIP telephone and high-quality recordings**

Chenzi Xu (University of Oxford); Jessica Wormald; Paul Foulkes; Philip Harrison; Vincent Hughes; Poppy Welch (University of York); Finnian Kelly (Oxford Wave Research); David van der Vloed (Netherlands Forensic Institute)

🕒 13:30–15:30 **Tradition or Innovation: A Comparison of Modern ASR Methods for Forced Alignment**

Rotem Rousso (Technion); Eyal Cohen; Joseph Keshet (Technion - Israel Institute of Technology); Eleanor Chodroff (University of Zurich)

🕒 13:30–15:30 **The Use of Modifiers and f0 in Remote Referential Communication with Human and Computer Partners**

Iona Gessinger (University College Dublin); Bistra Andreeva (Saarland University); Benjamin R. Cowan (University College Dublin)

🕒 13:30–15:30 **Using wav2vec 2.0 for phonetic classification tasks: methodological aspects**

Lila Kim (Laboratoire de Phonétique et Phonologie); Cédric Gendrot (LPP)

## A2-P1 - Innovative Methods in Phonetics and Phonology

📄 POSTER 📍 Poster Area 1A

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **The Use of Phone Categories and Cross-Language Modeling for Phone Alignment of Panāra**

Emily P. Ahn (University of Washington); Eleanor Chodroff (University of Zurich); Myriam Lapierre; Gina-Anne Levow (University of Washington)

🕒 13:30–15:30 **The sub-band cepstrum as a tool for locating local spectral regions of phonetic sensitivity: A first attempt with multi-speaker vowel data**

Michael Lambropoulos; Frantz Clermont; Shunichi Ishihara (Australian National University)

🕒 13:30–15:30 **Deciphering Assamese Vowel Harmony with Featural InfoWaveGAN**

Sneha Ray Barman; Shakuntala Mahanta (Indian Institute of Technology Guwahati); Neeraj Kumar Sharma (IIT Guwahati)

🕒 13:30–15:30 **Speaker-Independent Acoustic-to-Articulatory Inversion through Multi-Channel Attention Discriminator**

Woo-Jin Chung (Yonsei University); Hong-Goo Kang (Yonsei University)

🕒 13:30–15:30 **Phonological Feature Detection for US English using the Phonet Library**

Harsha Veena Tadavarthy; Austin Jones; Margaret E. L. Renwick (University of Georgia)

🕒 13:30–15:30 **Speaker- and Text-Independent Estimation of Articulatory Movements and Phoneme Alignments from Speech**

Tobias Weise (Friedrich-Alexander-Universität Erlangen-Nürnberg); Philipp Klumpp (Pattern Recognition Lab, FAU Erlangen-Nuremberg); Kubilay Can Demir (Friedrich-Alexander Universität Erlangen-Nürnberg); Paula Andrea Pérez-Toro (Friedrich-Alexander-Universität Erlangen-Nürnberg); Maria Schuster (Ludwig-Maximilians Universität München); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Bjoern Heismann (Friedrich-Alexander-Universität Erlangen-Nürnberg); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nuremberg); Seung Hee Yang (Friedrich-Alexander Universität Erlangen-Nürnberg (FAU))

🕒 13:30–15:30 **K-means and hierarchical clustering of f0 contours**

🕒 13:30–15:30 **Preprocessing for acoustic-to-articulatory inversion using real-time MRI movies of Japanese speech**



Anna Oura; Hideaki Kikuchi; Tetsunori Kobayashi  
(Waseda University)

## A6-P2-B - Speech Coding

POSTER 📍 Poster Area 3B

📅 Tuesday 03 September 2024 ⌚  
13:30–15:30 **Session chairs** : Jan Skoglund,  
Sameer Khurana

⌚ 13:30–15:30 **TD-PLC: A Semantic-Aware  
Speech Encoding for Improved Packet Loss  
Concealment**

Jinghong Zhang (Beijing University of Posts and Telecom-  
munications); Zugang Zhao (Beijing University of Posts  
and Telecommunications); Yonghui Liu; Jianbing Liu (Bei-  
jing University of Posts and Telecommunications); Zhiqiang  
He; Kai Niu (Fanvil Link Technology Co.)

⌚ 13:30–15:30 **BS-PLCNet 2: Two-stage  
Band-split Packet Loss Concealment Net-  
work with Intra-model Knowledge Distilla-  
tion**

Zihan Zhang (Northwestern Polytechnical University); Xi-  
anjuan Xia (RTC Lab, ByteDance); Chuanzeng Huang  
(Speech, Audio and Music Intelligence (SAMI) group,  
ByteDance); Yijian Xiao (ByteDance); Lei Xie (NWPU)

⌚ 13:30–15:30 **On Improving Error Re-  
silience of Neural End-to-End Speech  
Coders**

Kishan Gupta; Nicola Pia; Srikanth Korse; Andreas Bren-  
del; Guillaume Fuchs; Markus Multrus (Fraunhofer IIS)

⌚ 13:30–15:30 **Speech quality evaluation of  
neural audio codecs**

Thomas Muller (Orange Innovation); Stephane Ragot  
(Orange); Laetitia Gros (Orange Innovation); Pierrick  
Philippe (Orange, Rennes); Pascal Scalart (IRISA Lab-  
oratory)

⌚ 13:30–15:30 **A Low-Bitrate Neural Audio  
Codec Framework with Bandwidth Reduc-  
tion and Recovery for High-Sampling-Rate  
Waveforms**

Yang Ai; Ye-Xin Lu; Xiao-Hang Jiang; Zheng-Yan Sheng;  
Rui-Chen Zheng; Zhen-Hua Ling (University of Science  
and Technology of China)

⌚ 13:30–15:30 **CodecFake: Enhancing Anti-  
Spoofing Models Against Deepfake Audios  
from Codec-Based Speech Synthesis Sys-  
tems**

Haibin Wu; Yuan Tseng; Hung-yi Lee (National Taiwan  
University)

## A6-P2-A - Speech Enhancement

POSTER 📍 Poster Area 3A

📅 Tuesday 03 September 2024 ⌚  
13:30–15:30 **Session chairs** : Marvin  
Tammen

⌚ 13:30–15:30 **RaD-Net 2: A causal two-  
stage repairing and denoising speech en-  
hancement network with knowledge distilla-  
tion and complex axial self-attention**

Mingshuai Liu (NWPU); Zhuangqi Chen (Bytedance);  
Xiaopeng Yan; Yuanjun Lv (Northwestern Polytechni-  
cal University); Xianjun Xia (RTC Lab, ByteDance);  
Chuanzeng Huang (Speech, Audio and Music In-  
telligence (SAMI) group, ByteDance); Yijian Xiao  
(ByteDance); Lei Xie (NWPU)

⌚ 13:30–15:30 **DNN-based monaural speech  
enhancement using alternate analysis win-  
dows for phase and magnitude modification**

Xi Liu (Center for Robust Speech Systems (CRSS),  
The University of Texas at Dallas, TX, USA); John H.L.  
Hansen (Univ. of Texas at Dallas)

⌚ 13:30–15:30 **Improved Remixing Process  
for Domain Adaptation-Based Speech En-  
hancement by Mitigating Data Imbalance in  
Signal-to-Noise Ratio**

Li Li (CyberAgent, Inc.); Shogo Seki (CyberAgent, Inc.)

⌚ 13:30–15:30 **Neural Network Augmented  
Kalman Filter for Robust Acoustic Howling  
Suppression**

Yixuan Zhang (The Ohio State University); Hao Zhang  
(Tencent AI Lab); Meng Yu (Tencent); Dong Yu (Tencent  
AI Lab)

⌚ 13:30–15:30 **Improving Speech Enhance-  
ment by Integrating Inter-Channel and Band  
Features with Dual-branch Conformer**



Jizhen Li; Xinmeng Xu; Weiping Tu; Yuhong Yang; Rong Zhu (Wuhan University)

🕒 13:30–15:30 **An Exploration of Length Generalization in Transformer-Based Speech Enhancement**

Qiquan Zhang (The University of New South Wales); Hongxu Zhu (National University of Singapore); Xinyuan Qian (USTB); Eliathamby Ambikairajah (The University of New South Wales); Haizhou Li (The Chinese University of Hong Kong (Shenzhen))

🕒 13:30–15:30 **Reducing Speech Distortion and Artifacts for Speech Enhancement by Loss Function**

Haixin Guan (University of Science and Technology of China; Unisound AI Technology Co., Ltd); Wei Dai (Unisound); Guangyong Wang (Unisound AI Technology Co., Ltd); Xiaobin Tan (University of Science and Technology of China); Peng Li (Beijing iplustek Co., Ltd); Jiaen Liang (Unisound)

🕒 13:30–15:30 **Are Recent Deep Learning-Based Speech Enhancement Methods Ready to Confront Real-World Noisy Environments?**

Candy Olivia Mawalim; Shogo Okada (Japan Advanced Institute of Science and Technology); Masashi Unoki (JAIST)

🕒 13:30–15:30 **Beyond Performance Plateaus: A Comprehensive Study on Scalability in Speech Enhancement**

Wangyou Zhang (Shanghai Jiao Tong University); Kohei Saijo (Waseda University); Jee-weon Jung (Carnegie Mellon University); Chenda Li (Shanghai Jiao Tong University); Shinji Watanabe (Carnegie Mellon University); Yanmin Qian (Shanghai Jiao Tong University)

**A4-P2 - Speaker and Language Identification and Diarization**

POSTER 📍 Poster Area 2A

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs : Yusuke Fujita**

🕒 13:30–15:30 **Multi-latency look-ahead for streaming speaker segmentation**

Bilal Rahou (IRIT); Hervé Bredin (CNRS)

🕒 13:30–15:30 **Once more Diarization: Improving meeting transcription systems through segment-level speaker reassignment**

Christoph Boeddeker; Tobias Cord-Landwehr (Paderborn University); Reinhold Haeb-Umbach (University of Paderborn)

🕒 13:30–15:30 **ASoBO: Attentive Beamformer Selection for Distant Speaker Diarization in Meetings**

Théo Mariotte (LTCI, Télécom Paris, Institut Polytechnique de Paris); Anthony Larcher (Université du Mans - LIUM); Silvio Montrésor; Jean-Hugh Thomas (Le Mans University - LAUM, UMR 6613, IA-GS)

🕒 13:30–15:30 **Hybrid-Diarization System with Overlap Post-Processing for the DISPLACE 2024 Challenge**

Gabriel Pîrlogeanu; Octavian Pascu; Alexandru-Lucian Georgescu (University Politehnica of Bucharest/ Zevo-Tech); Horia Cucu (University Politehnica of Bucharest)

🕒 13:30–15:30 **The Second DISPLACE Challenge: Diarization of SPeaker and LAnguage in Conversational Environments**

Shareef Babu Kalluri; Prachi Singh (Indian Institute of Science, Bangalore); Pratik Roy Chowdhuri (National Institute of Technology Karnataka, Surathkal); Apoorva Kulkarni (Indian Institute of science); Shikha Baghel (National Institute of Technology Karnataka, Surathkal); Pradyoth Hegde; Swapnil Sontakke (Indian Institute of Information Technology Dharwad); Deepak K T (IIIT-Dharwad); S.R. Mahadeva Prasanna (IIT Dharwad); Deepu Vijayasenan (National Institute of Technology Karnataka, Surathkal); Sriram Ganapathy (Google Research - Indian Institute of Science, Bangalore, India, 560012)

🕒 13:30–15:30 **TalTech-IRIT-LIS Speaker and Language Diarization Systems for DISPLACE 2024**

Joonas Kalda; Tanel Alumae (Tallinn University of Technology); Martin Lebourdais (IRIT/CNRS); Hervé Bredin (CNRS); Séverin Baroudi (LIS); Ricard Marxer (Université de Toulon, Aix Marseille Univ, CNRS, LIS, Toulon)

🕒 13:30–15:30 **Exploring Energy-Based**

## Models for Out-of-Distribution Detection in Dialect Identification

Yaqian Hao (China Mobile Research Institute); Chenguang Hu (chinamobile); Yingying Gao; Shilei Zhang; Junlan Feng (China Mobile Research Institute)

## SS5B - Speech and Language in Health: from Remote Monitoring to Medical Conversations - 2 (Special Sessions)

### 🕒 13:30–15:30 Exploring Spoken Language Identification Strategies for Automatic Transcription of Multilingual Broadcast and Institutional Speech

Martina Valente; Fabio Brugnara; Giovanni Morrone; Enrico Zovato; Leonardo Badino (Almawave)

POSTER 📍 Yanis Club

📅 Tuesday 03 September 2024 🕒 13:30–15:30 **Session chairs : Thomas Schaaf, Vikram Ramanarayanan**

### 🕒 13:30–15:30 AG-LSEC: Audio Grounded Lexical Speaker Error Correction

Rohit Paturi; Xiang Li; Sundararajan Srinivasan (AWS AI Labs)

### 🕒 13:30–15:30 It's Time to Take Action: Acoustic Modeling of Motor Verbs to Detect Parkinson's Disease

Daniel Escobar-Grisales; Cristian David Ríos-Urrego (University of Antioquia); Ilja Baumann; Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Tobias Bocklet (TH Nürnberg); Adolfo M. Garcia (Global Brain Health Institute, University of California); Juan Rafael Orozco-Arroyave (University of Antioquia)

### 🕒 13:30–15:30 Speaker Change Detection with Weighted-sum Knowledge Distillation based on Self-supervised Pre-trained Models

Hang Su (Beijing Xiaomi Mobile Software Co., Ltd); Yuxiang Kong (Xiaomi Inc.); Lichun Fan; Peng Gao (Beijing Xiaomi Mobile Software Co., Ltd); Yujun Wang (xiaomi); Zhiyong Wu (Tsinghua University)

### 🕒 13:30–15:30 Towards objective and interpretable speech disorder assessment: a comparative analysis of CNN and transformer-based models

Malo Maisonneuve; Corinne Fredouille (Avignon Université - LIA); Muriel Lalain; Alain Ghio (Aix-Marseille Univ, CNRS, LPL, Aix-en-Provence, France); Virginie Woisard (Hospitals of Toulouse)

### 🕒 13:30–15:30 SOMSRED: Sequential Output Modeling for Joint Multi-talker Overlapped Speech Recognition and Speaker Diarization

Naoki Makishima; Naotaka Kawata (NTT); Mana Ihori (NTT Corporation); Tomohiro Tanaka (NTT); Shota Orihashi; Atsushi Ando; Ryo Masumura (NTT Corporation)

### 🕒 13:30–15:30 Macro-descriptors for Alzheimer's disease detection using large language models

Catarina Botelho (INESC-ID/IST, University of Lisbon); John Mendonça; Anna Pompili (INESC-ID); Tanja Schultz (University of Bremen); Alberto Abad (INESC-ID/IST); Isabel Trancoso (INESC ID)

### 🕒 13:30–15:30 Song Data Cleansing for End-to-End Neural Singer Diarization Using Neural Analysis and Synthesis Framework

Hokuto Munakata; Ryo Terashima; Yusuke Fujita (LY Corporation)

### 🕒 13:30–15:30 Infusing Acoustic Pause Context into Text-Based Dementia Assessment

Franziska Braun (Technische Hochschule Nürnberg); Sebastian P. Bayerl (University of Applied Sciences Rosenheim); Florian Hönig (KST Institut GmbH); Hartmut Lehfeld; Thomas Hillemacher (Klinikum Nürnberg); Tobias Bocklet (TH Nürnberg); Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm)

**🕒 13:30–15:30** **Towards Scalable Remote Assessment of Mild Cognitive Impairment Via Multimodal Dialog**

*Oliver Roesler; Jackson Liscombe (Modality.AI Inc.); Michael Neumann (Modality.AI, Inc.); Hardik Kothare; Abhishek Hosamath (Modality.AI); Lakshmi Arbatti; Doug Habberstad; Christiane Suendermann-Oeft; Meredith Bartlett; Cathy Zhang; Nikhil Sukhdev; Kolja Wilms (Modality.AI, Inc.); Anusha Badathala (San Francisco Veterans Affairs Medical Center & University of California, San Francisco); Sandrine Istas (ICON Strategic Solutions, ICON plc.); Steve Ruhmel; Bryan Hansen; Madeline Hannan; David Henley (Janssen Research and Development, LLC.); Arthur Wallace (San Francisco Veterans Affairs Medical Center & University of California, San Francisco); Ira Shoulson (Modality.AI, Inc.); David Suendermann-Oeft (Modality.AI Inc.); Vikram Ramanarayanan (University of California, San Francisco & Modality.AI)*

**🕒 13:30–15:30** **Automatic recognition and detection of aphasic natural speech**

*Mara Barberis; Pieter De Clercq; Bastiaan Tamm; Hugo Van hamme; Maaïke Vandermosten (KU Leuven)*

**🕒 13:30–15:30** **When Whisper Listens to Aphasia: Advancing Robust Post-Stroke Speech Recognition**

*Giulia Sanguedolce; Sophie Brook; Dragos C. Gruia; Patrick A. Naylor; Fatemeh Geranmayeh (Imperial College London)*

**🕒 13:30–15:30** **Automatic Prediction of Amyotrophic Lateral Sclerosis Progression using Longitudinal Speech Transformer**

*Liming Wang; Yuan Gong; Nauman Dawalatabad (Massachusetts Institute of Technology); Marco Vilela; Kateřina Placek; Brian Tracey (Takeda Development Center Americas, Inc.); Yishu Gong (Takeda); Alan Premasiri; Fernando Vieira (ALS Therapy Development Institute); James Glass (Massachusetts Institute of Technology)*

**🕒 13:30–15:30** **How Consistent are Speech-Based Biomarkers in Remote Tracking of ALS Disease Progression Across Languages? A Case Study of English and Dutch**

*Hardik Kothare (Modality.AI); Michael Neumann; Cathy Zhang (Modality.AI, Inc.); Jackson Liscombe (Modality.AI Inc.); Jordi W J van Unnik; Lianne C M Botman; Leonard H van den Berg; Ruben P A van Eijk (University Medical Center Utrecht); Vikram Ramanarayanan (University of California, San Francisco & Modality.AI)*

**🕒 13:30–15:30** **“So . . . my child . . . ” – How Child ADHD Influences the Way Parents Talk**

*Anika A. Spiesberger (Technical University of Munich); Andreas Triantafyllopoulos; Alexander Kathan (University of Augsburg); Anastasia Semertzidou (Technical University of Munich); Caterina Gawrilow (University of Tuebingen); Tilman Reinelt (University of Zurich); Wolfgang A. Rauch (Ludwigsburg University of Education,); Björn W. Schuller (Imperial College London)*

**🕒 13:30–15:30** **Variability of speech timing features across repeated recordings: a comparison of open-source extraction techniques**

*Judith Dineley; Ewan Carr; Lauren L. White; Catriona Lucas; Zahia Rahman; Tian Pan (King’s College London); Faith Matcham (University of Sussex); Johnny Downs; Richard J. Dobson (King’s College London); Thomas Quatieri (Massachusetts Institute of Technology Lincoln Laboratory); Nicholas Cummins (King’s College London)*

**🕒 13:30–15:30** **Zero-Shot End-To-End Spoken Question Answering In Medical Domain**

*Yanis Labrak (LIA - Avignon University); Adel Moumen (Avignon University); Richard Dufour (LS2N - Nantes University); Mickael Rouvier (LIA - Avignon University)*

**🕒 13:30–15:30** **Perceiver-Prompt: Flexible Speaker Adaptation in Whisper for Chinese Disordered Speech Recognition**

*Yicong Jiang (University of Chinese Academy of Sciences); Tianzi Wang (The Chinese University of HongKong); Xurong Xie (Institute of Software, Chinese Academy of Sciences); Juan Liu (Shenzhen Institutes of Advanced Technologys); Wei Sun (Institute of Software, Chinese Academy of Sciences); Nan Yan (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences); Hui Chen (Institute of Software, Chinese Academy of Sciences); Lan Wang (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences); Xunying Liu (The Chinese University of Hong Kong); Feng Tian (Institute of Software, Chinese Academy of Sciences)*

**ST2 - Show and Tell 2**

**SAT** 📍 **Exhibition**

📅 **Tuesday 03 September 2024** 🕒 **13:30–15:30** **Session chairs :**



**🕒 13:30–15:30 Custom wake word detection**

*Kesavaraj V (International Institute of Information Technology Hyderabad, India); Charan Devarkonda (Independent Researcher); Vamshiraghusimha Narasinga; Anil Kumar Vuppala (International Institute of Information Technology Hyderabad, India)*

**🕒 13:30–15:30 Edged based audio-visual speech enhancement demonstrator**

*Song Chen (College of Mechanical and Electrical Engineering, Anhui Jianzhu University, Hefei, China; School of Computing, Engineering and the Built Environment, Edinburgh Napier University, UK); Mandar Gogate; Kia Dashtipour (Edinburgh Napier University, Edinburgh, UK); Jasper Kirton-Wingate; Adeel Hussain (School of Computing, Engineering and the Built Environment, Edinburgh Napier University, UK); Faiyaz Doctor (School of Engineering, The University of Edinburgh, UK); Tughrul Arslan (School of Computer Science and Electronic Engineering, University of Essex, U.K.); Amir Hussain (Edinburgh Napier University, Edinburgh, UK)*

**🕒 13:30–15:30 Real-Time Gaze-directed speech enhancement for audio-visual hearing-aids**

*Arif Reza Anway; Bryony Buck; Mandar Gogate; Kia Dashtipour (Edinburgh Napier University, Edinburgh, UK); Michael Akeroyd (University of Nottingham, Hearing Sciences, Nottingham, UK); Amir Hussain (Edinburgh Napier University, Edinburgh, UK)*

**🕒 13:30–15:30 Detection of background agents speech in contact centers**

*Abhishek Kumar; Srikanth Konjeti; Jithendra Vepa (Observe.AI, India)*

**🕒 13:30–15:30 The reasonable effectiveness of speaker embeddings for violence detection**

*Sarthak Jain (GGSIPIU New Delhi, India); Orchid Chetia Phukan; Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)*

**🕒 13:30–15:30 TEEMI: a speaking practice tool for L2 English learners**

*Szu-Yu Chen (Department of Educational Psychology and Counseling, National Taiwan Normal University); Tien-Hong Lo (Department of Computer Science and Information Engineering, National Taiwan Normal University); Yao-Ting Sung; Ching-Yu Tseng (Department of Educational Psychology and Counseling, National Taiwan*

*Normal University); Berlin Chen (National Taiwan Normal University)*

**🕒 13:30–15:30 Understanding “understanding”: presenting a richly annotated multi-modal corpus of dyadic interaction**

*Leonie Schade; Nico Dallmann; Olcay Turk (Bielefeld University, Germany); Stefan Lazarov (Paderborn University, Germany); Petra Wagner (Bielefeld University)*

**🕒 13:30–15:30 A demonstrator for articulation-based command word recognition**

*Joao Vitor Possamai de Menezes; Arne-Lukas Fietkau; Tom Diener; Steffen Kurbis (Institute of Acoustics and Speech Communication, Technische Universität Dresden, Germany); Peter Birkholz (TU Dresden)*

**🕒 13:30–15:30 Pragmatically similar utterance finder demonstration**

*Nigel G. Ward (University of Texas at El Paso, USA); Andres Segura (University of Texas at El Paso)*

**A10-O2 - ASR and LLMs**

**ORAL** 📍 **Aegle B**

📅 **Tuesday 03 September 2024** 🕒 **16:00–18:00** **Session chairs : Alberto Abad, Mirco Ravanelli**

**🕒 16:00–16:20 HuBERT-EE: Early Exiting HuBERT for Efficient Speech Recognition**

*Ji Won Yoon (Chung-Ang University); Beom Jun Woo; Nam Soo Kim (Seoul National University)*

**🕒 16:20–16:40 MaLa-ASR: Multimedia-Assisted LLM-Based ASR**

*Guanrou Yang; Ziyang Ma (Shanghai Jiao Tong University); Fan Yu (Speech Lab of DAMO Academy, Alibaba Group); Zhifu Gao (alibaba); Shiliang Zhang (Alibaba Group); Xie Chen (Shanghai Jiaotong University)*

**🕒 16:40–17:00 Spoken-to-written text conversion with Large Language Model**

*HyunJung Choi (Korea National University of Science and Technology(UST)); Muyeol Choi (ETRI); Yohan Lim (University of Science and Technology); Minkyu Lee (ETRI); Seonhui Kim (Korea National University of Science and Technology(UST)); Seung Yun; Donghyun Kim; SangHun Kim (ETRI)*



🕒 17:00–17:20

### MM-KWS: Multi-modal Prompts for Multilingual User-defined Keyword Spotting

Zhiqi Ai; Zhiyong Chen; Shugong Xu (Shanghai University)

🕒 17:20–17:40

### Whisper-Flamingo: Integrating Visual Features into Whisper for Audio-Visual Speech Recognition and Translation

Andrew Rouditchenko (MIT CSAIL); Yuan Gong (Massachusetts Institute of Technology); Samuel Thomas (IBM Research AI); Leonid Karlinsky (IBM-Research); Hilde Kuehne (University of Bonn); Rogerio Feris (MIT-IBM Watson AI Lab, IBM Research); James Glass (Massachusetts Institute of Technology)

🕒 17:40–18:00

### Speech Recognition Models are Strong Lip-readers

K R Prajwal (VGG, Oxford); Triantafyllos Afouras (Meta); Andrew Zisserman (University of Oxford)

## A4-O3 - Foundational Models for Deepfake and Spoofed Speech Detection

ORAL

📍 Aegle A

📅 Tuesday 03 September 2024 🕒

16:00–18:00 Session chairs : Zhiyao Duan, Antonio Peinado

🕒 16:00–16:20

### Spoofed Speech Detection with a Focus on Speaker Embedding

Hoan My Tran (irisa); David Guennec; Philippe Martin (Univ Rennes, CNRS, IRISA); Aghilas Sini (Le Mans Université); Damien Lolive (Univ Rennes, CNRS, IRISA); Arnaud Delhay (Univ Rennes, IRISA, CNRS); Pierre-François Marteau (Univ Bretagne Sud, CNRS, IRISA)

🕒 16:20–16:40

### Exploring Self-supervised Embeddings and Synthetic Data Augmentation for Robust Audio Deepfake Detection

Juan M. Martín-Doñas; Aitor Álvarez (Vicomtech); Eros Rosello; Angel M. Gomez; Antonio M. Peinado (University of Granada)

🕒 16:40–17:00

### Attentive Merging of Hidden Embeddings from Pre-trained Speech Model for Anti-spoofing Detection

Zihan Pan (Institute for Infocomm Research (I2R), A\*STAR, Singapore); Tianchi Liu (National University of Singapore); Hardik B. Sailor (I2R, ASTAR, Singapore); Qiongqiong Wang (A\*STAR)

🕒 17:00–17:20

### Adapter Learning from Pre-trained Model for Robust Spoof Speech Detection

Haochen Wu; Wu Guo; Shengyu Peng; Zhuhai Li (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC))

🕒 17:20–17:40

### Speech Formants Integration for Generalized Detection of Synthetic Speech Spoofing Attacks

Kexu Liu; Yuanxin Wang (Nanjing University of Posts and Telecommunications); Shengchen Li (Xi'an Jiaotong-Liverpool University); Xi Shao (Nanjing University of Posts and Telecommunications)

🕒 17:40–18:00

### Balance, Multiple Augmentation, and Re-synthesis: A Triad Training Strategy for Enhanced Audio Deepfake Detection

Thien-Phuc Doan; Long Nguyen-Vu; Kihun Hong; Souhwan Jung (Soongsil University)

## A2-O3 - Prosody

ORAL

📍 Acesso

📅 Tuesday 03 September 2024 🕒

16:00–18:00 Session chairs :

🕒 16:00–16:20

### Automatic pitch accent classification through image classification

Na Hu (Radboud University); Hugo Schnack (Utrecht University); Amalia Arvaniti (Radboud University)

🕒 16:20–16:40

### Form and Function in Prosodic Representation: In the Case of 'ma' in Tianjin Mandarin

Tianqi Geng (Tianjin University); Hui Feng (Tianjin University)

🕒 16:40–17:00

### On Comparing Time- and Frequency-Domain Rhythm Measures in Classifying Assamese Dialects

Joyshree Chakraborty (Indian Institute of Technology Guwahati); Leena Dihingia (Gauhati University); Priyankoo Sarmah; Rohit Sinha (Indian Institute of Technology Guwahati)

**17:00–17:20 The prosody of the verbal prefix ge-: historical and experimental evidence**

Chiara Riegger; Tina Bögel; George Walkden (University of Konstanz)

**17:20–17:40 Influences of Morphosyntax and Semantics on the Intonation of Mandarin Chinese Wh-indeterminates**

Hongchen Wu (Georgia Institute of Technology); Jiwon Yun (Stony Brook University)

**17:40–18:00 Urdu Alternative Questions: A Hat Pattern**

Benazir Mumtaz (university of Konstanz); Miriam Butt (University of Konstanz)

## A8-O4 - Neural Network Adaptation

ORAL  1asso

 Tuesday 03 September 2024   
16:00–18:00 **Session chairs : George Saon, Peter Bell**

**16:00–16:20 Shared-Adapters: A Novel Transformer-based Parameter Efficient Transfer Learning Approach For Children’s Automatic Speech Recognition**

Thomas Rolland (INESC-ID); Alberto Abad (INESC-ID/IST)

**16:20–16:40 AdaRA: Adaptive Rank Allocation of Residual Adapters for Speech Foundation Model**

Zhouyuan Huo; Dongseong Hwang; Gan Song (Google); Khe Chai Sim (Google Inc.); Weiran Wang (Google)

**16:40–17:00 Leveraging Adapter for Parameter-Efficient ASR Encoder**

Kyuhong Shim; Jinkyu Lee; Hyunjae Kim (Qualcomm AI Research)

**17:00–17:20 Whisper Multilingual Downstream Task Tuning Using Task Vectors**

Ji-Hun Kang; Jae-Hong Lee; Mun-Hak Lee; Joon-Hyuk Chang (Hanyang University)

**17:20–17:40 Speaker-Smoothed kNN Speaker Adaptation for End-to-End ASR**

Shaojun Li (Huawei TSC); Daimeng Wei (Huawei); Hengchao Shang (HW-TSC); Jiaxin Guo (Huawei); ZongYao Li; Zhanglin Wu (HW-TSC); Zhiqiang Rao; Yuanchang Luo; Xianghui He; Hao Yang (Huawei)

**17:40–18:00 Qifusion-Net: Layer-adapted Stream/Non-stream Model for End-to-End Multi-Accent Speech Recognition**

Jinming Chen; Jingyi Fang; Yuanzhong Zheng; Yaoxuan Wang; Haojun Fei (QIFU technology)

## A5-O4 - Source Separation 1

ORAL  Panacea Amphitheater

 Tuesday 03 September 2024   
16:00–18:00 **Session chairs : Shoko Araki, Joon-Hyuk Chang**

**16:00–16:20 Noise-robust Speech Separation with Fast Generative Correction**

Helin Wang; Jesus Villalba; Laureano Moro-Velazquez; Jiarui Hai; Thomas Thebaud; Najim Dehak (Johns Hopkins University)

**16:20–16:40 MSDET: Multitask Speaker Separation and Direction-of-Arrival Estimation Training**

Roland Hartanto (Tokyo Institute of Technology); Sakriani Sakti (Nara Institute of Science and Technology / Japan Advanced Institute of Science and Technology); Koichi Shinoda (Tokyo Institute of Technology)

**16:40–17:00 Unsupervised Improved MVDR Beamforming for Sound Enhancement**

Jacob Kealey (Université de Sherbrooke); John R. Hershey (Google); François Grondin (Université de Sherbrooke)

**17:00–17:20 Improving Generalization of Speech Separation in Real-World Scenarios:**

## Strategies in Simulation, Optimization, and Evaluation

Ke Chen (University of California San Diego); Jiaqi Su (Adobe Research); Taylor Berg-Kirkpatrick; Shlomo Dubnov (University of California San Diego); Zeyu Jin (Adobe Research)

### 🕒 17:20–17:40 Enhanced Deep Speech Separation in Clustered Ad Hoc Distributed Microphone Environments

Jihyun Kim (Yonsei University); Stijn Kindt (UGent); Nilesh Madhu (IDLab, Ghent University - imec); Hong-Goo Kang (Yonsei University)

### 🕒 17:40–18:00 Towards Audio Codec-based Speech Separation

Jia Qi Yip (Alibaba Group / Nanyang Technological University); Shengkui Zhao (Alibaba Group); Dianwen Ng (Alibaba Group / Nanyang Technological University); Eng-Siong Chng (Nanyang Technological University); Bin Ma (Alibaba)

## A7-O5 - Speech Synthesis: Prosody

ORAL 📍 Hippocrates

📅 Tuesday 03 September 2024 🕒 16:00–18:00  
**Session chairs : Esther Klabbers, Kevin Lenzo**

### 🕒 16:00–16:20 Word-level Text Markup for Prosody Control in Speech Synthesis

Yuliya Korotkova; Ilya Kalinovskiy; Tatiana Vakhrusheva (Just AI)

### 🕒 16:20–16:40 Should you use a probabilistic duration model in TTS? Probably! Especially for spontaneous speech

Shivam Mehta; Harm Lameris (KTH Royal Institute of Technology); Rajiv Punmiya (Self); Jonas Beskow; Éva Székely; Gustav Eje Henter (KTH Royal Institute of Technology)

### 🕒 16:40–17:00 Total-Duration-Aware Duration Modeling for Text-to-Speech Systems

Sefik Emre Eskimez; Xiaofei Wang; Manthan Thakker (Microsoft); Chung-Hsien Tsai; Canrun Li; Zhen Xiao (Microsoft Corporation); Hemin Yang; Zirun Zhu; Min Tang; Jinyu Li; Sheng Zhao; Naoyuki Kanda (Microsoft)

### 🕒 17:00–17:20 A Human-in-the-Loop Approach to Improving Cross-Text Prosody Transfer

Himanshu Maurya (University of Edinburgh); Atli Sigurgeirsson (University of Edinburgh)

### 🕒 17:20–17:40 Towards Expressive Zero-Shot Speech Synthesis with Hierarchical Prosody Modeling

Yuepeng Jiang (Northwestern Polytechnical University); Tao Li (School of Computer Science, Northwestern Polytechnical University, Xi'an); Fengyu Yang (xiaomi); Lei Xie (NWPU); Meng Meng; Yujun Wang (xiaomi)

### 🕒 17:40–18:00 Multi-Modal Automatic Prosody Annotation with Contrastive Pre-training of Speech-Silence and Word-Punctuation

Jinzuomu Zhong (the University of Edinburgh); Yang Li; Hui Huang (Department of AI Technology, Transsion); Korin Richmond (University of Edinburgh); Jie Liu (Department of AI Technology, Transsion); Zhibo Su (Transsion); Jing Guo; Benlai Tang; Fengjie Zhu (Department of AI Technology, Transsion)

## A13-P2-B - Speech Disorders 3

POSTER 📍 Poster Area 1B

📅 Tuesday 03 September 2024 🕒 16:00–18:00  
**Session chairs : Stefan Goetze**

### 🕒 16:00–18:00 Enhancing Voice Wake-Up for Dysarthria: Mandarin Dysarthria Speech Corpus Release and Customized System Design

Ming Gao; Hang Chen; Jun Du (University of Science and Technology of China); Xin Xu (AISHELL); Hongxiao Guo (Beijing AISHELL Technology Co., Ltd.); Hui Bu (AISHELL); Jianxing Yang (Beijing Polytechnic); Ming Li (Duke Kunshan University); Chin-Hui Lee (Georgia Institute of Technology)

### 🕒 16:00–18:00 Towards Improving NAM-to-Speech Synthesis Intelligibility using Self-Supervised Speech Models

Neil Shah (IIIT Hyderabad); Shirish Karande (TCS Research); Vineet Gandhi (IIIT Hyderabad)



🕒 16:00–18:00 **PARAN: Variational Autoencoder based End-to-End Articulation-to-Speech System for Speech Intelligibility**

*Seyun Um; Doyeon Kim; Hong-Goo Kang (Yonsei University)*

🕒 16:00–18:00 **Acoustic changes in speech prosody produced by children with autism after robot-assisted speech training**

*Si Chen (The Hong Kong Polytechnic University); Bruce Xiao Wang; Yitian Hong; Fang Zhou; Angel Chan; Poyi Tang (Hong Kong Polytechnic University); Bin Li (City University of Hong Kong); Chunyi Wen; James Cheung (Hong Kong Polytechnic University); Yan Liu (The Hong Kong Polytechnic University); Zhuoming Chen (The First Hospital of Jinan University)*

🕒 16:00–18:00 **Fine-Tuning Automatic Speech Recognition for People with Parkinson's: An Effective Strategy for Enhancing Speech Technology Accessibility**

*Xiuwen Zheng (University of Illinois Urbana-Champaign); Bornali Phukon (University of Illinois Urbana Champaign); Mark Hasegawa-Johnson (University of Illinois)*

🕒 16:00–18:00 **Learnings from curating a trustworthy, well-annotated, and useful dataset of disordered English speech**

*Pan-Pan Jiang (Google); Jimmy Tobin (Google Research); Katrin Tomanek; Robert MacDonald (Google); Katie Seaver (MGH Institute of Health Professions); Richard Cave (Language and Cognition UCLg); Marilyn Ladewig (CPUUnlimited); Rus Heywood (Google); Jordan Green (MGH Institute of Health Professions)*

🕒 16:00–18:00 **Training Data Augmentation for Dysarthric Automatic Speech Recognition by Text-to-Dysarthric-Speech Synthesis**

*Wing-Zin Leung; Mattias Cross; Anton Ragni; Stefan Goetze (University of Sheffield)*

🕒 16:00–18:00 **Wav2vec 2.0 Embeddings Are No Swiss Army Knife -- A Case Study for Multiple Sclerosis**

*Gábor Gosztolya (MTA-SZTE Research Group on AI); Mercedes Vetráb (University of Szeged); Veronika Svindt (Research Center for Linguistics); Judit Bóna (ELTE Eötvös Loránd University); Ildikó Hoffmann (Research Center for Linguistics)*

**A13-P2-A - Pathological Speech Analysis 3**

POSTER

📍 Poster Area 1A

📅 Tuesday 03 September 2024 🕒 16:00–18:00 Session chairs :

🕒 16:00–18:00 **Towards Self-Attention Understanding for Automatic Articulatory Processes Analysis in Cleft Lip and Palate Speech**

*Ilja Baumann (Technische Hochschule Nürnberg Georg Simon Ohm); Dominik Wagner (Technische Hochschule Nuernberg Georg Simon Ohm); Maria Schuster (Ludwig-Maximilians University); Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm); Elmar Noeth (friedrich Alexander Universitat, Erlangen-Nuremberg); Tobias Bocklet (TH Nürnberg)*

🕒 16:00–18:00 **Clever Hans Effect Found in Automatic Detection of Alzheimer's Disease through Speech**

*Yin-Long Liu; Rui Feng; Jia-Hong Yuan; Zhen-Hua Ling (University of Science and Technology of China)*

🕒 16:00–18:00 **Leveraging Phonemic Transcription and Whisper toward Clinically Significant Indices for Automatic Child Speech Assessment**

*Yeh-Sheng Lin (Institute of Linguistics, Academia Sinica); Shu-Chuan Tseng ("Institute of Linguistics, Academia Sinica"); Jyh-Shing Roger Jang (National Taiwan University)*

🕒 16:00–18:00 **Developing vocal system impaired patient-aimed voice quality assessment approach using ASR representation-included multiple features**

*Shaoliang Dang; Tetsuya Matsumoto (Nagoya University); Yoshinori Takeuchi (Daido University); Takashi Tsuboi (Nagoya University Graduate School of Medicine); Yasuhiro Tanaka (Aichi Gakuin University); Daisuke Nakatsubo; Satoshi Maesawa; Ryuta Saito; Masahisa Katsuno (Nagoya University Graduate School of Medicine); Hiroaki Kudo (Nagoya University)*

🕒 16:00–18:00 **A Cluster-based Personalized Federated Learning Strategy for End-to-End**



## ASR of Dementia Patients

Wei-Tung Hsu (National Tsing Hua University); Chin-Po Chen (Department of Electrical Engineering, National Tsing Hua University); Yun-Shao Lin (Electrical Engineering Department, National Tsing Hua University); Chi-Chun Lee (National Tsing Hua University)

🕒 16:00–18:00 **A Comparative Analysis of Federated Learning for Speech-Based Cognitive Decline Detection**

Stefan Kalabakov (Hasso Plattner Institute, University of Potsdam); Monica Gonzalez-Machorro (audEERING GmbH / Technical University of Munich); Florian Eyben (audEERING); Björn W. Schuller (Imperial College London); Bert Arnrich (Hasso Plattner Institute, Digital Engineering Faculty, University of Potsdam)

🕒 16:00–18:00 **Multimodal Digital Biomarkers for Longitudinal Tracking of Speech Impairment Severity in ALS: An Investigation of Clinically Important Differences**

Michael Neumann (Modality.AI, Inc.); Hardik Kothare (Modality.AI); Jackson Liscombe (Modality.AI Inc.); Emma C.L. Leschly (Modality.AI); Oliver Roesler (Modality.AI Inc.); Vikram Ramanarayanan (University of California, San Francisco & Modality.AI)

**A8-P3 - Accented Speech, Prosodic Features, Dialect, Emotion, Sound Classification**

POSTER 📍 Poster Area 2A

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs : Sudarsana Kadiri**

🕒 16:00–18:00 **Improving Self-supervised Pre-training using Accent-Specific Codebooks**

Darshan Prabhu (Indian Institute of Technology, Bombay); Abhishek Gupta (Indian Institute of Technology Bombay); Omkar Nitsure (Indian Institute of Technology, Bombay); Preethi Jyothi (Indian Institute of Technology Bombay); Sriram Ganapathy (Google Research - Indian Institute of Science, Bangalore, India, 560012)

🕒 16:00–18:00 **Performant ASR Models for Medical Entities in Accented Speech**

Tejumade Afonja (CISPA Helmholtz Center for Information Security, Saarland University, and AI Saturdays Lagos); Tobi Olatunji (Intron Inc); Sewade Ogun (Inria); Naome A. Etori (university of Minnesota-Twin Cities); Abraham T. Owodunni (Intron Health); Moshood Yekini (African Masters of Machine Intelligence)

🕒 16:00–18:00 **LAHAJA: A Robust Multi-accent Benchmark for Evaluating Hindi ASR Systems**

Tahir Javed (Indian Institute of Technology Madras); Janki Nawale (AI4Bharat); Sakshi Joshi (AI4bharat IIT Madras); Eldho George (AI4Bharat); Kaushal Santosh Bhogale (Indian Institute of Technology, Madras); Deovrat Mehendale (AI4Bharat); Mitesh M Khapra (Indian Institute of Technology Madras)

🕒 16:00–18:00 **LearnerVoice: A Dataset of Non-Native English Learners' Spontaneous Speech**

Haechan Kim; Junho Myung; Seoyoung Kim (KAIST); Sungpah Lee (Ringle); Dongyeop Kang (University of Minnesota); Juho Kim (KAIST)

🕒 16:00–18:00 **MinSpeech: A Corpus of Southern Min Dialect for Automatic Speech Recognition**

Jiayan Lin; Shenghui Lu; Hukai Huang; Wenhao Guan; Binbin Xu (Xiamen University); Hui Bu (AISHELL); Qingyang Hong; Lin Li (Xiamen University)

🕒 16:00–18:00 **Cross-modal Features Interaction-and-Aggregation Network with Self-consistency Training for Speech Emotion Recognition**

Ying Hu; Huamin Yang; Hao Huang (Xinjiang University); Liang He (Tsinghua University)

🕒 16:00–18:00 **Exploring Multilingual Unseen Speaker Emotion Recognition: Leveraging Co-Attention Cues in Multitask Learning**

Arnav Goel; Medha Hira (IIITD); Anubha Gupta (Indraprastha Institute of Information Technology-Delhi (IIITD))

🕒 16:00–18:00 **SELM: Enhancing Speech Emotion Recognition for Out-of-Domain Scenarios**

*Hazim Bukhari (Carnegie Mellon university); Soham Deshmukh (Microsoft); Hira Dharmyal; Bhiksha Raj; Rita Singh (Carnegie Mellon University)*

🕒 16:00–18:00 **The Processing of Stress in End-to-End Automatic Speech Recognition Models**

*Martijn Bentum (Radboud University); Louis ten Bosch (radboud unversity); Tom Lentz (Tilburg University)*

🕒 16:00–18:00 **LingWav2Vec2: Linguistic-augmented wav2vec 2.0 for Vietnamese Mispronunciation Detection**

*Tuan Nguyen (Institute for Infocomm Research, A\*STAR); Huy Dat Tran (Institute for Infocomm Research (I2R))*

🕒 16:00–18:00 **Learning from memory-based models**

*Rhiannon Mogridge (University of Sheffield); Anton Ragni (University of Sheffield)*

🕒 16:00–18:00 **Towards End-to-End Unified Recognition for Mandarin and Cantonese**

*Meiling Chen; Pengjie Liu; Heng Yang; Haofeng Wang (Beijing Institute of Computer Technology and Application)*

**A6-P3-B - Speech Privacy and Bandwidth Expansion**

POSTER 📍 Poster Area 3B

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs** : Tom Backstrom

🕒 16:00–18:00 **Privacy PORCUPINE: Anonymization of Speaker Attributes Using Occurrence Normalization for Space-Filling Vector Quantization**

*Mohammad Hassan Vali (Aalto University); Tom Bäckström (Aalto University)*

🕒 16:00–18:00 **SilentCipher: Deep Audio Watermarking**

*Mayank Kumar Singh (Sony Research Japan); Naoya Takahashi (Sony Research); Weihsiang Liao (Sony Group Corporation); Yuki Mitsufuji (Sony AI)*

🕒 16:00–18:00 **Frequency-mix Knowledge Distillation for Fake Speech Detection**

*Cunhang Fan (Anhui Provincial Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University); Shunbo Dong (Anhui University); Jun Xue (Anhui Province Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University); Yujie Chen (Anhui University); Jianguan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Zhao Lv (Anhui university)*

🕒 16:00–18:00 **A New Approach to Voice Authenticity**

*Nicolas M. Müller (Fraunhofer AISEC); Piotr Kawa (Wrocław University of Science and Technology); Shen Hu (TU Munich); Matthias Neu (Bundesamt für Sicherheit in der Informationstechnik); Jennifer Williams (University of Southampton); Philip Sperl; Konstantin Böttinger (Fraunhofer AISEC)*

🕒 16:00–18:00 **TraceableSpeech: Towards Proactively Traceable Text-to-Speech with Watermarking**

*Junzuo Zhou (Institute of Automation, Chinese Academy of Sciences); Jianguan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Tao Wang (Institute of Automation, Chinese Academy of Sciences); Jianhua Tao (Tsinghua University); Ye Bai; Chu Yuan Zhang; Yong Ren (Institute of Automation, Chinese Academy of Sciences); Zhengqi Wen (Qiyuan Lab)*

🕒 16:00–18:00 **HarmoNet: Partial DeepFake Detection Network based on Multi-scale HarmoF0 Feature Fusion**

*Liwei Liu (Northwestern Polytechnical University (NPU)); Huihui Wei (Shanghai Jiao Tong University); Dongya Liu; Zhonghua Fu (Northwestern Polytechnical University (NPU))*

🕒 16:00–18:00 **Unmasking Neural Codecs: Forensic Identification of AI-compressed Speech**

*Denise Moussa (Friedrich-Alexander-University Erlangen-Nuremberg/Federal Criminal Police Office of Germany); Sandra Bergmann (Friedrich-Alexander University Erlangen-Nürnberg); Christian Riess (Friedrich-Alexander University Erlangen-Nuremberg)*

🕒 16:00–18:00 **SWiBE: A Parameterized Stochastic Diffusion Process for Noise-Robust Bandwidth Expansion**

*Yin-Tse Lin (Institute of Communication Engineering, National Tsing Hua University, Taiwan); Shreya G. Upadhyay (National Tsing Hua University); Bo-Hao Su (Department of Electrical Engineering, National Tsing Hua University); Chi-Chun Lee (National Tsing Hua University)*

🕒 16:00–18:00 **MultiStage Speech Bandwidth Extension with Flexible Sampling Rate Control**

*Ye-Xin Lu; Yang Ai; Zheng-Yan Sheng; Zhen-Hua Ling (University of Science and Technology of China)*

🕒 16:00–18:00 **MaskSR: Masked Language Model for Full-band Speech Restoration**

*Xu Li (Dolby Laboratories); Qirui Wang (Southeast University); Xiaoyu Liu (Dolby Laboratories)*

**A6-P3-A - Audio-Visual and Generative Speech Enhancement**

POSTER 📍 Poster Area 3A

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs : Nicolas Mueller**

🕒 16:00–18:00 **Locally Aligned Rectified Flow Model for Speech Enhancement Towards Single-Step Diffusion**

*Zhengxiao Li (Tokyo Institute Technology); Nakamasa Inoue (Tokyo Institute of Technology)*

🕒 16:00–18:00 **Diffusion Gaussian Mixture Audio Denoise**

*Pu Wang; Junhui Li (College of Science, University of Science and Technology Liaoning); Jialu Li (Cornell University); Liangdong Guo (College of Science, University of Science and Technology Liaoning); Youshan Zhang (Yeshiva University)*

🕒 16:00–18:00 **An Analysis of the Variance of Diffusion-based Speech Enhancement**

*Bunlong Lay (Universität Hamburg); Timo Gerkmann (Universität Hamburg)*

🕒 16:00–18:00 **FlowAVSE: Efficient Audio-Visual Speech Enhancement with Conditional Flow Matching**

*Chaeyoung Jung (KAIST); Suyeon Lee (Korea Advanced Institute of Science and Technology); Ji-Hoon Kim; Joon Son Chung (KAIST)*

🕒 16:00–18:00 **RT-LA-VocE: Real-Time Low-SNR Audio-Visual Speech Enhancement**

*Honglie Chen (Meta); Rodrigo Mira (Imperial College London); Stavros Petridis (Meta); Maja Pantic (Imperial College London)*

🕒 16:00–18:00 **Complex Image-Generative Diffusion Transformer for Audio Denoising**

*Junhui Li (University of Science and Technology Liaoning); Pu Wang (College of Science, University of Science and Technology Liaoning); Jialu Li (Cornell University); Youshan Zhang (Yeshiva University)*

🕒 16:00–18:00 **Noise-aware Speech Enhancement using Diffusion Probabilistic Model**

*Yuchen Hu; Chen Chen (Nanyang Technological University); Ruizhe Li (University of Aberdeen); Qiushi Zhu (University of Science and Technology of China); Eng-Siong Chng (Nanyang Technological University)*

**A4-P3 - Speaker Recognition 1**

POSTER 📍 Poster Area 4A

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs : Jee-weon Jung**

🕒 16:00–18:00 **Fine-tune Pre-Trained Models with Multi-Level Feature Fusion for Speaker Verification**

*Shengyu Peng; Wu Guo; Haochen Wu; Zuoliang Li (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC))*

🕒 16:00–18:00 **Speaker Conditional Sinc-Extractor for Personal VAD**

*En-Lun Yu (National Taiwan Normal University); Kuan-Hsun Ho (NTNU); Jeih-weih Hung (National Chi Nan University); Shih-Chieh Huang (Realtek Semiconductor Corp.); Berlin Chen (National Taiwan Normal University)*



🕒 16:00–18:00 **Enhancing ECAPA-TDNN with Feature Processing Module and Attention Mechanism for Speaker Verification**

*Shiu-Hsiang Liou (National Sun Yat-sen University); Po-Cheng Chan (Advanced Technology Laboratory, Chunghwa Telecom Laboratories); Chia-Ping Chen; Tzu-Chieh Lin (National Sun Yat-sen University); Chung-Li Lu; Yu-Han Cheng; Hsiang-Feng Chuang; Wei-Yu Chen (Advanced Technology Laboratory, Chunghwa Telecom Laboratories)*

🕒 16:00–18:00 **MR-RawNet: Speaker verification system with multiple temporal resolutions for variable duration utterances using raw waveforms**

*Seung-bin Kim; Chan-yeong Lim; Jungwoo Heo; Ju-ho Kim; Hyun-seo Shin; Kyo-Won Koo; Ha-Jin Yu (University of Seoul)*

🕒 16:00–18:00 **Disentangled Representation Learning for Environment-agnostic Speaker Recognition**

*KiHyun Nam (Korea Advanced Institute of Science and Technology (KAIST)); Hee-Soo Heo (Naver Corp.); Jee-weon Jung (Carnegie Mellon University); Joon Son Chung (KAIST)*

🕒 16:00–18:00 **Multi-Channel Extension of Pre-trained Models for Speaker Verification**

*Ladislav Mošner (Brno University of Technology); Romain Serizel (Université de Lorraine); Lukáš Burget; Oldřich Plchot (Brno University of Technology); Emmanuel Vincent (Inria); Junyi Peng; Jan Honza Cernocky (Brno University of Technology)*

🕒 16:00–18:00 **Efficient Integrated Features Based on Pre-trained Models for Speaker Verification**

*Yishuang Li; Wenhao Guan; Hukai Huang; Shiyu Miao; Qi Su; Lin Li; Qingyang Hong (Xiamen University)*

🕒 16:00–18:00 **SE/BN Adapter: Parametric Efficient Domain Adaptation for Speaker Recognition**

*Tianhao Wang; Lantian Li (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University)*

🕒 16:00–18:00 **DB-PMAE: Dual-Branch Prototypical Masked AutoEncoder with locality for domain robust speaker verification**

*Wei-lin Xie (University of Science and Technology of China); Yuxuan Xi (National Engineering Research Center of Speech and Language Information Processing); Yan Song (USTC); Jian-tao Zhang (University of Science and Technology of China); Haoyu Song (The Australian National University); Ian McLoughlin (Singapore Institute of Technology)*

🕒 16:00–18:00 **Evaluating the Santa Barbara Corpus: Challenges of the Breadth of Conversational Spoken Language**

*Matthew Maciejewski (Johns Hopkins University); Dominik Klement (Brno University of Technology); Ruizhe Huang; Matthew Wiesner; Sanjeev Khudanpur (Johns Hopkins University)*

🕒 16:00–18:00 **A Comprehensive Investigation on Speaker Augmentation for Speaker Recognition**

*Zhenyu Zhou (Beijing University Of Posts and Telecommunications); Shibiao Xu (School of Artificial Intelligence, Beijing University of Posts and Telecommunications); Shi Yin (Huawei); Lantian Li (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University)*

**SS10 - Speech Processing Using Discrete Speech Units (Special Session)**

ORAL 📍 Melampus

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs : Shinji Watanabe, Yossi Addi**

🕒 16:00–16:20 **TokSing: Singing Voice Synthesis based on Discrete Tokens**

*Yuning Wu (Renmin University of China); Chunlei Zhang (Tencent AI Lab); Jiatong Shi (Carnegie Mellon University); Yuxun Tang (Renmin University of China); Shan Yang (Tencent AI Lab); Qin Jin (Renmin University of China)*

🕒 16:20–16:40 **How Should We Extract Discrete Audio Tokens from Self-Supervised Models?**

*Pooneh Mousavi (Concordia University); Jarod Duret (LIA); Salah Zaiem (Telecom Paris); Luca Della Libera (Concordia University); Artem Ploujnikov (Université de Montréal); Cem Subakan (Mila); Mirco Ravanelli (Université de Montréal)*



🕒 16:40–17:00 **The Interspeech 2024 Challenge on Speech Processing Using Discrete Units**

*Xuankai Chang; Jiatong Shi; Jinchuan Tian (Carnegie Mellon University); Yuning Wu; Yuxun Tang; Yihan Wu (Renmin University of China); Shinji Watanabe (Carnegie Mellon University); Yossi Adi (The Hebrew University of Jerusalem); Xie Chen (Shanghai Jiaotong University); Qin Jin (Renmin University of China)*

🕒 17:00–17:20 **SingOMD: Singing Oriented Multi-resolution Discrete Representation Construction from Speech Models**

*Yuxun Tang; Yuning Wu (Renmin University of China); Jiatong Shi (Carnegie Mellon University); Qin Jin (Renmin University of China)*

🕒 17:20–17:40 **MMM: Multi-Layer Multi-Residual Multi-Stream Discrete Speech Representation from Self-supervised Learning Model**

*Jiatong Shi (Carnegie Mellon University); Xutai Ma; Hirofumi Inaguma; Anna Sun (Meta); Shinji Watanabe (Carnegie Mellon University)*

🕒 17:40–18:00 **Codec-ASR: Training Performant Automatic Speech Recognition Systems with Discrete Speech Representations**

*Kunal Dhawan; Nithin Rao Koluguri; Ante Jukić; Ryan Langman; Jagadeesh Balam; Boris Ginsburg (NVIDIA)*

**SS9 - Speech Recognition with Large Pretrained Speech Models for Under-represented Languages (Special Session)**

POSTER 📍 Yanis Club

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs : Prasanta Kumar Ghosh, Thomas Hain**

🕒 16:00–18:00 **Interface Design for Self-Supervised Speech Models**

*Yi-Jen Shih (The University of Texas at Austin); David Harwath (The University of Texas at Austin)*

🕒 16:00–18:00 **Comparing Discrete and Continuous Space LLMs for Speech Recognition**

*Yaouxun Xu (Tsinghua University); Shi-Xiong Zhang (Capital One); Jianwei Yu (Tencent AI lab); Zhiyong Wu (Tsinghua University); Dong Yu (Tencent AI Lab)*

🕒 16:00–18:00 **Improving Whisper’s Recognition Performance for Under-Represented Language Kazakh Leveraging Unpaired Speech and Text**

*Jinpeng Li; Yu Pu; Qi Sun; Wei-Qiang Zhang (Tsinghua University)*

🕒 16:00–18:00 **Empowering Low-Resource Language ASR via Large-Scale Pseudo Labeling**

*Kaushal Santosh Bhogale (Indian Institute of Technology, Madras); Deovrat Mehendale; Niharika Parasa (AI4BHARAT); Sathish Kumar Reddy G (Indian Institute of Technology, Madras); Tahir Javed; Pratyush Kumar; Mitesh M Khapra (Indian Institute of Technology Madras)*

🕒 16:00–18:00 **Interleaved Audio/Audiovisual Transfer Learning for AV-ASR in Low-Resourced Languages**

*Zhengyang Li (Technische Universität Carolo-Wilhelmina Braunschweig); Patrick Blumenberg (Technische Universität Braunschweig); Jing Liu (Amazon.com); Thomas Graave; Timo Lohrenz (Technische Universität Braunschweig); Siegfried Kunzmann (Amazon.com); Tim Fingscheidt (Technische Universität Braunschweig)*

🕒 16:00–18:00 **Adapter pre-training for improved speech recognition in unseen domains using low resource adapter tuning of self-supervised models**

*Sathvik Udupa (Indian Institute of Science); Jesuraj Bandekar (IISc); Saurabh Kumar (IISc Bengaluru); Deekshitha G; Sandhya B (IISc); Abhayjeet S (Indian Institute of Sciences, Bangalore, India); Savitha Murthy (IISc); Priyanka Pai (NavanaTech); Srinivasa Raghavan (Navana Tech); Raoul Nanavati (Navana Tech India Pvt. Ltd.); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)*

🕒 16:00–18:00 **Towards Rehearsal-Free Multilingual ASR: A LoRA-based Case Study on Whisper**

*Tianyi Xu; Kaixun Huang (NWPU); Pengcheng Guo (Northwestern Polytechnical University); Yu Zhou; Longtao Huang; Hui Xue (Alibaba Group); Lei Xie (NWPU)*

🕒 16:00–18:00 **Exploring adaptation techniques of large speech foundation models for low-resource ASR: a case study on Northern Sámi**

*Yaroslav Getman; Tamas Grosz (Aalto University); Katri Hiovain-Asikainen (UiT The Arctic University of Norway); Mikko Kurimo (Aalto University)*

🕒 16:00–18:00 **Learn and Don't Forget: Adding a New Language to ASR Foundation Models**

*Mengjie Qian; Siyuan Tang (Cambridge University); Rao Ma; Kate Knill; Mark Gales (University of Cambridge)*

**Reception - Student Evening / Reviewer Reception**

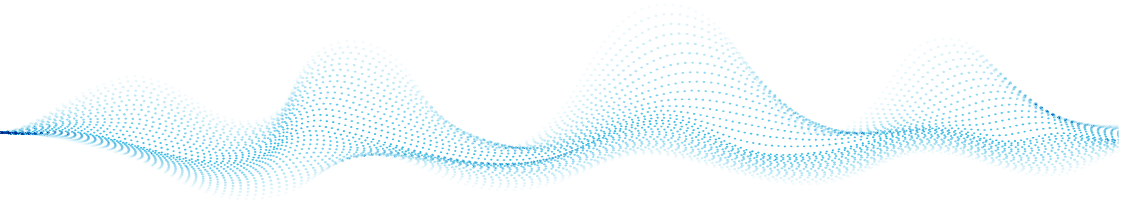
SOCIAL EVENT 📍 Hippocrates

📅 Tuesday 03 September 2024 🕒 19:00–21:00 **Session chairs :**

# Wednesday 4 September 2024

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### Keynote 3 - Elmar Nöth

**Analysis of Pathological Speech – Pitfalls along the Way**

📍 **Hippocrates**

📅 **Wednesday 04 September 2024** ⌚  
08:30–09:30

### A13-O2 - Pathological Speech Analysis 2

**ORAL** 📍 **Panacea Amphitheater**

📅 **Wednesday 04 September 2024** ⌚  
10:00–12:00 **Session chairs : Tomás Arias Vergara, Sebastian Bayerl**

⌚ 10:00–10:20 **Quantifying the effect of speech pathology on automatic and human speaker verification**

*Bence Mark Halpern (Nagoya University); Thomas Tienkamp (University of Groningen); Wen-Chin Huang; Lester Phillip Violeta (Nagoya University); Teja Rebernik (University of Groningen); Sebastiaan de Visscher; Max Witjes (University Medical Center Groningen); Martijn Wieling; Defne Abur (University of Groningen); Tomoki Toda (Nagoya University)*

⌚ 10:20–10:40 **Investigation of Layer-Wise Speech Representations in Self-Supervised Learning Models: A Cross-Lingual Study in Detecting Depression**

*Bubai Maji (Indian Institute of Technology Kharagpur); Rajlakshmi Guha; Aurobinda Routray; Shazia Nasreen; Debabrata Majumdar (IIT Kharagpur)*

⌚ 10:40–11:00 **Detection of Cognitive Impairment And Alzheimer’s Disease Using a Speech- and Language-Based Protocol**

*Tanya Talkar; Sherman Charles; Chelsea Krantsevich; Kan Kawabata (Aural Analytics)*

⌚ 11:00–11:20 **Analyzing Multimodal Features of Spontaneous Voice Assistant Com-**

**mands for Mild Cognitive Impairment Detection**

*Nana Lin; Youxiang Zhu; Xiaohui Liang (University of Massachusetts Boston); John A. Batsis; Caroline Summerour (University of North Carolina)*

⌚ 11:20–11:40 **Prosody-Driven Privacy-Preserving Dementia Detection**

*Dominika Woszczyk; Ranya Aloufi; Soteris Demetriou (Imperial College London)*

⌚ 11:40–12:00 **Voice Disorder Analysis: a Transformer-based Approach**

*Alkis Koudounas; Gabriele Ciravegna (Politecnico di Torino); Marco Fantini (San Feliciano Hospital); Erika Crosetti; Giovanni Succo (San Giovanni Bosco Hospital); Tania Cerquitelli (Dipartimento di Automatica e Informatica Politecnico di Torino); Elena Baralis (Politecnico di Torino)*

### A11-O2 - Spoken Dialogue Systems and Conversational Analysis 1

**ORAL** 📍 **Melampus**

📅 **Wednesday 04 September 2024** ⌚  
10:00–12:00 **Session chairs :**

⌚ 10:00–10:20 **Autoregressive cross-interlocutor attention scores meaningfully capture conversational dynamics**

*Matthew McNeill (CUNY Graduate Center); Rivka Levitan (City university of new york)*

⌚ 10:20–10:40 **ConvoCache: Smart Re-Use of Chatbot Responses**

*Conor Atkins; Ian Wood (Macquarie University); Mohamed Ali Kaafar (Macquarie University and CSIRO-Data61); Hassan Asghar (Macquarie University and Data61); Nardine Basta; Michal Kepkowski (Macquarie University)*

⌚ 10:40–11:00 **Joint Learning of Context and Feedback Embeddings in Spoken Dialogue**

*Livia Qian (KTH Royal Institute of Technology); Gabriel Skantze (KTH)*

🕒 11:00–11:20 **DubWise: Video-Guided Speech Duration Control in Multimodal LLM-based Text-to-Speech for Dubbing**

*Neha Sahipjohn; Ashishkumar Gudmalwar; Nirmesh Shah; Pankaj Wasnik (Sony Research India); Rajiv Ratn Shah (IIIT Delhi)*

🕒 11:20–11:40 **Contextual Interactive Evaluation of TTS Models in Dialogue Systems**

*Siyang Wang (KTH Royal Institute of Technology, Stockholm); Éva Székely; Joakim Gustafson (KTH Royal Institute of Technology)*

🕒 11:40–12:00 **GSQA: An End-to-End Model for Generative Spoken Question Answering**

*Min-Han Shih; Ho-Lam Chung; Yu-Chi Pai; Ming-Hao Hsu; Guan-Ting Lin (National Taiwan University); Shang-Wen Li (FAIR); Hung-yi Lee (National Taiwan University)*

**A9-O3 - Novel Architectures for ASR**

ORAL 📍 Hippocrates

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Leda Sari, Preethi Jyothi**

🕒 10:00–10:40 - Survey Talk

**Novel architecture for ASR**  
*Rohit Prabhavalkar (Google)*

🕒 10:40–11:00 **Efficient and Robust Long-Form Speech Recognition with Hybrid H3-Conformer**

*Tomoki Honda; Shinsuke Sakai; Tatsuya Kawahara (Kyoto University)*

🕒 11:00–11:20 **Rapid Language Adaptation for Multilingual E2E Speech Recognition Using Encoder Prompting**

*Yosuke Kashiwagi (Sony); Hayato Futami; Emiru Tsunoo (Sony Group Corporation); Siddhant Arora; Shinji Watanabe (Carnegie Mellon University)*

🕒 11:20–11:40 **Quantifying Unintended Memorization in BEST-RQ ASR Encoders**

*Virat Shejwalkar; Om Thakkar (Google); Arun Narayanan (Google Inc.)*

🕒 11:40–12:00 **SWAN: SubWord Alignment Network for HMM-free word timing estimation in end-to-end automatic speech recognition**

*Woo Hyun Kang (Amazon Web Services); Srikanth Vishnubhotla (AWS AI Labs); Rudolf Braun (Amazon Web Services); Yogesh Virkar (AWS AI Labs); Raghuveer Peri (Amazon Web Services Inc.); Kyu J. Han (Amazon Web Services (AWS))*

**A6-O3 - Privacy and Security in Speech Communication 1**

ORAL 📍 Aegle A

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Emmanuel Vincent, Nikolay Gaubitch**

🕒 10:00–10:20 **Harder or Different? Understanding Generalization of Audio Deepfake Detection**

*Nicolas M. Müller (Fraunhofer AISEC); Nicholas Evans (EURECOM); Hemlata Tak (Pindrop); Philip Sperl; Konstantin Böttinger (Fraunhofer AISEC)*

🕒 10:20–10:40 **Prompt Tuning for Audio Deepfake Detection: Computationally Efficient Test-time Domain Adaptation with Limited Target Dataset**

*Hideyuki Oiso (University of Tsukuba); Yuto Matsunaga (NEC corporation); Kazuya Kakizaki (NEC Corporation / University of Tsukuba); Taiki Miyagawa (NEC Corporation)*

🕒 10:40–11:00 **Robust spread spectrum speech watermarking using linear prediction and deep spectral shaping**

*David Looney (Pindrop); Nikolay D. Gaubitch (Pindrop)*

🕒 11:00–11:20 **RawBMamba: End-to-End Bidirectional State Space Model for Audio Deepfake Detection**

*Yujie Chen (Anhui Univesity); Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation,*

Chinese Academy of Sciences); Jun Xue (Anhui Province Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University); Chenglong Wang; Xiaohui Zhang (Chinese Academy of Sciences); Shunbo Dong (Anhui University); Siding Zeng (Chinese Academy of Sciences); Jianhua Tao (Tsinghua University); Zhao Lv (Anhui university); Cunhang Fan (Anhui Provincial Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University)

🕒 11:20–11:40 **How Private is Low-Frequency Speech Audio in the Wild? An Analysis of Verbal Intelligibility by Humans and Machines**

Ailin Liu (RWTH Aachen University); Pepijn Vunderink (TU Delft); Jose Vargas Quiros; Chirag Raman (Delft University of Technology); Hayley Hung (TU Delft)

🕒 11:40–12:00 **RW-VoiceShield: Raw Waveform-based Adversarial Attack on One-shot Voice Conversion**

Ching-Yu Yang; Shreya G. Upadhyay (National Tsing Hua University); Ya-Tse Wu; Bo-Hao Su (Department of Electrical Engineering, National Tsing Hua University); Chi-Chun Lee (National Tsing Hua University)

**A3-O3 - Speech Emotion Recognition**

ORAL 📍 1asso

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Chi-Chun Lee**

🕒 10:00–10:40 - Survey Talk

**Automatic Emotion Detection/Recognition**  
Carlos Busso (University of Texas at Dallas)

🕒 10:40–11:00 **ExHuBERT: Enhancing HuBERT Through Block Extension and Fine-Tuning on 37 Emotion Datasets**

Shahin Amiriparian (Technical University of Munich); Filip Packaň; Maurice Gerczuk (University of Augsburg); Björn W. Schuller (Imperial College London)

🕒 11:00–11:20 **Dataset-Distillation Generative Model for Speech Emotion Recognition**

Fabian Ritter-Gutierrez (Nanyang Technological University); Kuan-Po Huang (National Taiwan University);

Jeremy H. M. Wong (Institute for Infocomm Research); Dianwen Ng (Alibaba Group / Nanyang Technological University); Hung-yi Lee (National Taiwan University); Nancy F. Chen (Institute for Infocomm Research); Eng-Siong Chng (Nanyang Technological University)

🕒 11:20–11:40 **DropFormer: A Dynamic Noise-Dropping Transformer for Speech Emotion Recognition**

Jialong Mai; Xiaofen Xing; Weidong Chen; Xiangmin Xu (South China University of Technology)

🕒 11:40–12:00 **From Text to Emotion: Unveiling the Emotion Annotation Capabilities of LLMs**

Minxue Niu (University of Michigan); Mimansa Jaiswal (Norm AI); Emily Mower Provost (University of Michigan)

**A4-O4 - Self-Supervised Models in Speaker Recognition**

ORAL 📍 Acesso

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Hagai Aronowitz, Omid Ghahabi**

🕒 10:00–10:20 **Self-supervised speaker verification with relational mask prediction**

Ju-ho Kim (University of Seoul); Hee-Soo Heo (Naver Corp.); Bong-Jin Lee; Youngki Kwon (Naver Corporation); Minjae Lee (NAVER Cloud Corp.); Ha-Jin Yu (University of Seoul)

🕒 10:20–10:40 **Towards Supervised Performance on Speaker Verification with Self-Supervised Learning by Leveraging Large-Scale ASR Models**

Victor Miara; Theo Lepage (LRE-EPITA); Reda Dehak (ESLR - EPITA)

🕒 10:40–11:00 **Improving Noise Robustness in Self-supervised Pre-trained Model for Speaker Verification**

Chan-yeong Lim; Hyun-seo Shin; Ju-ho Kim; Jungwoo Heo; Kyo-Won Koo; Seung-bin Kim; Ha-Jin Yu (University of Seoul)



🕒 11:00–11:20 **On the impact of several regularization techniques on label noise robustness of self-supervised speaker verification systems**

*Abderrahim Fathan (Computer Research Institute of Montreal (CRIM), Montreal, Quebec, Canada); Xiaolin Zhu (Computer Research Institute of Montreal); Jahangir Alam (Computer Research Institute of Montreal (CRIM), Montreal (Quebec) Canada)*

🕒 11:20–11:40 **Parameter-efficient Fine-tuning of Speaker-Aware Dynamic Prompts for Speaker Verification**

*Zhe Li (Hong Kong Polytechnic University); Man-Wai Mak (The Hong Kong Polytechnic University); Hung-yi Lee (National Taiwan University); Helen Meng (The Chinese University of Hong Kong)*

🕒 11:40–12:00 **Whisper-PMFA: Partial Multi-Scale Feature Aggregation for Speaker Verification using Whisper Models**

*Yiyang Zhao (Tsinghua University); Shuai Wang (Shenzhen Research Institute of Big Data, Chinese University of Hong Kong (Shenzhen)); Guangzhi Sun (University of Cambridge Department of Engineering); Zehua Chen; Chao Zhang; Mingxing Xu (Tsinghua University); Thomas Fang Zheng ("CSLT, Tsinghua University")*

**A5-O5 - Speech Quality Assessment**

ORAL 📍 Aegle B

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Sebastian Möller, Rita Singh**

🕒 10:00–10:40 - Survey Talk

**Neural Speech Assessment Metrics**

*Yu Tsao (Academia Sinica)*

🕒 10:40–11:00 **Embedding Learning for Preference-based Speech Quality Assessment**

*ChengHung Hu; Yusuke Yasuda; Tomoki Toda (Nagoya University)*

🕒 11:00–11:20 **IndicMOS: Multilingual MOS Prediction for 7 Indian languages**

*Sathvik Udupa (Indian Institute of Science); Soumi Maiti (CMU); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)*

🕒 11:20–11:40 **Experimental evaluation of MOS, AB and BWS listening test designs**

*Dan Wells (University of Edinburgh); Andrea Lorena Aldana Blanco (Edinburgh University); Cassia Valentini (University of Edinburgh); Erica Cooper (National Institute of Informatics); Aidan Pine (National Research Council Canada); Junichi Yamagishi (National Institute of Informatics); Korin Richmond (University of Edinburgh)*

🕒 11:40–12:00 **Enhancing No-Reference Speech Quality Assessment with Pairwise, Triplet Ranking Losses, and ASR Pretraining**

*Bao Thang Ta (Viettel Cyberspace Center); Minh Tu Le (Viettel AI, Viettel Group); Van Hai Do (Thuyloi University); Huynh Thi Thanh Binh (Hanoi University of Science and Technology)*

**A10-P1 - Multimodality and Foundation Models**

POSTER 📍 Poster Area 3A

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Alessio Brutti, Umberto Cappellazzo**

🕒 10:00–12:00 **Spontaneous Speech-Based Suicide Risk Detection Using Whisper and Large Language Models**

*Ziyun Cui; Chang Lei (Tsinghua University); Wen Wu (University of Cambridge); Yinan Duan (Tsinghua University); Diyang Qu; Ji Wu; Runsen Chen; Chao Zhang (Tsinghua University)*

🕒 10:00–12:00 **Spoken Word2Vec: Learning Skipgram Embeddings from Speech**

*Mohammad Amaan Sayeed (MBZUAI); Hanan Aldarmaki (MBZUAI)*

🕒 10:00–12:00 **SAMSEMO: New dataset for multilingual and multimodal emotion recognition**

*Pawel Bujnowski; Bartłomiej Kuzma; Bartłomiej Paziewski; Jacek Rutkowski; Joanna Marhula; Zuzanna Bordzicka (Samsung Research Poland); Piotr Andrzejewicz (Samsung Research Institute Poland)*



🕒 10:00–12:00 **LLM-Driven Multimodal Opinion Expression Identification**

Boniam Jia (Tianjin university); Huiyao Chen (Harbin Institute of Technology (Shenzhen)); Yueheng Sun (Tianjin University); Meishan Zhang (Harbin Institute of Technology (Shenzhen)); Min Zhang (Soochow University)

🕒 10:00–12:00 **Zero-Shot Fake Video Detection by Audio-Visual Consistency**

Xiaolou Li; Zehua Liu (Beijing University of Posts and Telecommunications); Chen Chen (Tsinghua University); Lantian Li; Li Guo (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University)

🕒 10:00–12:00 **Enhancing Speech-Driven 3D Facial Animation with Audio-Visual Guidance from Lip Reading Expert**

Han EunGi; Oh Hyun-Bin; Kim Sung-Bin (POSTECH); Corentin Nivelet Etcheberry (Bordeaux INP); Suekyeong Nam (KRAFTON Inc.); Janghoon Ju (KRAFTON); Tae-Hyun Oh (POSTECH)

**A1-P1-B - Articulation, Convergence and Perception**

POSTER 📍 Poster Area 1B

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Peter Birkholz**

🕒 10:00–12:00 **Behavioral evidence for higher speech rate convergence following natural than artificial time altered speech**

Jérémy Giroud; Jessica Lei; Kirsty Phillips; Matthew H. Davis (MRC Cognition and Brain Science Unit, University of Cambridge)

🕒 10:00–12:00 **A novel experimental design for the study of listener-to-listener convergence in phoneme categorization**

Qingye Shen (Aix-Marseille University); Leonardo Lancia (Laboratoire Parole et Langage (CNRS/Aix-Marseille Université)); Noel Nguyen (Aix-Marseille University)

🕒 10:00–12:00 **Cross-Attention-Guided WaveNet for EEG-to-MEL Spectrogram Reconstruction**

Hao Li (South University of Science and Technology of China); Yuan Fang; Xueliang Zhang (Inner Mongolia University); Fei Chen (Southern University of Science and Technology); Guanglai Gao (Inner Mongolia University)

🕒 10:00–12:00 **What if HAL breathed? Enhancing Empathy in Human-AI Interactions with Breathing Speech Synthesis**

Nicolò Loddo; Francisca Pessanha; Almila Akdag (Utrecht University)

🕒 10:00–12:00 **Magnitude and timing of acceleration peaks in stressed and unstressed syllables**

Malin Svensson Lundmark (Lund University)

**A1-P1-A - Databases and Progress in Methodology**

POSTER 📍 Poster Area 1A

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Péter Mihajlik**

🕒 10:00–12:00 **VoxSim: A perceptual voice similarity dataset**

Junseok Ahn; Youkyum Kim (KAIST); Yeunju Choi (Samsung Research); Doyeop Kwak; Ji-Hoon Kim (KAIST); Seongkyu Mun (Samsung Research); Joon Son Chung (KAIST)

🕒 10:00–12:00 **UY/CH-CHILD -- A Public Chinese L2 Speech Database of Uyghur Children**

Mewlude Nijat (Xinjiang University); Chen Chen; Dong Wang (Tsinghua University); Askar Hamdulla (Xinjiang University)

🕒 10:00–12:00 **State-of-the-art speech production MRI protocol for new 0.55 Tesla scanners**

Prakash Kumar; Ye Tian; Yongwan Lim (University of Southern California); Sophia X. Cui (Siemens Healthineers); Christina Hagedorn (CUNY); Dani Byrd (University of Southern California); Uttam K. Sinha (Keck School of Medicine, University of Southern California); Shrikanth Narayanan (USC); Krishna S. Nayak (University of Southern California)

🕒 10:00–12:00 **DBD-CI: Doubling the Band Density for Bilateral Cochlear Implants**

Mingyue Shi; Huali Zhou (Shenzhen University); Qinglin Meng (South China University of Technology); Nengheng Zheng (Shenzhen University)

🕒 10:00–12:00 **Leveraging Large Language Models to Refine Automatic Feedback Generation at Articulatory Level in Computer Aided Pronunciation Training**

Huihang Zhong; Yanlu Xie; ZiJin Yao (Beijing Language and Culture University)

🕒 10:00–12:00 **Decoding Human Language Acquisition: EEG Evidence for Predictive Probabilistic Statistics in Word Segmentation**

Bin Zhao (Institute of Linguistics, Chinese Academy of Social Sciences); Mingxuan Huang; Chenlu Ma (Department of Chinese Language and Literature, Fudan University); Jinyi Xue (College of Foreign Languages and Literature, Fudan University); Aijun Li (Institute of Linguistics, CASS); Kunyu Xu (Institute of Modern Languages and Linguistics, Fudan University)

**A7-P2-B - Speech Synthesis: Text Processing**

POSTER 📍 Poster Area 4B

📅 Wednesday 04 September 2024 🕒 10:00–12:00 Session chairs :

🕒 10:00–12:00 **A Language Modeling Approach to Diacritic-Free Hebrew TTS**

Amit Roth (The Hebrew University of Jerusalem); Arnon Turetzky (Hebrew University of Jerusalem); Yossi Adi (The Hebrew University of Jerusalem)

🕒 10:00–12:00 **Exploring the Benefits of Tokenization of Discrete Acoustic Units**

Avihu Dekel (IBM Research); Raul Fernandez (IBM Research)

🕒 10:00–12:00 **Homograph Disambiguation with Text-to-Text Transfer Transformer**

Markéta Řezáčková; Daniel Tihelka (University of West Bohemia); Jindřich Matoušek (University of West Bohemia, Pilsen, Czech Republic)

🕒 10:00–12:00 **Enhancing Japanese Text-to-Speech Accuracy with a Novel Combination Transformer-BERT-based G2P: Integrating Pronunciation Dictionaries and Accent Sandhi**

Kiyoshi Kurihara (NHK (Japan Broadcasting Corporation)); Masanori Sano (NHK)

🕒 10:00–12:00 **Audio-conditioned phonemic and prosodic annotation for building text-to-speech models from unlabeled speech data**

Yuma Shirahata; Byeongseon Park; Ryuichi Yamamoto (LY Corp.); Kentaro Tachibana (LINE Corp.)

🕒 10:00–12:00 **G2PA: G2P with Aligned Audio for Mandarin Chinese**

Xingxing Yang (HKUST)

🕒 10:00–12:00 **Learning Pronunciation from Other Accents via Pronunciation Knowledge Transfer**

Siqi Sun (The University of Edinburgh); Korin Richmond (University of Edinburgh)

🕒 10:00–12:00 **Positional Description for Numerical Normalization**

Deepanshu Gupta (Apple); Javier Latorre (Apple)

🕒 10:00–12:00 **Beyond graphemes and phonemes: continuous phonological features in neural text-to-speech synthesis**

Christina Tännander; Shivam Mehta; Jonas Beskow; Jens Edlund (KTH Royal Institute of Technology)

**A7-P2-A - Speech Synthesis: Voice Conversion 2**

POSTER 📍 Poster Area 4A

📅 Wednesday 04 September 2024 🕒 10:00–12:00 Session chairs : Yuki Saito

🕒 10:00–12:00 **Improvement Speaker Similarity for Zero-Shot Any-to-Any Voice Conversion of Whispered and Regular Speech**

Aleksei Gusev (FluentaAI); Anastasia Avdeeva (FluentaAI)

🕒 10:00–12:00 **Utilizing Adaptive Global Response Normalization and Cluster-Based Pseudo Labels for Zero-Shot Voice Conversion**

*Ji Sub Um (KAIST); Hoirin Kim (KAIST)*

🕒 10:00–12:00 **Vec-Tok-VC+: Residual-enhanced Robust Zero-shot Voice Conversion with Progressive Constraints in a Dual-mode Training Strategy**

*Linhan Ma; Xinfu Zhu; Yuanjun Lv; Zhichao Wang; Ziqian Wang (Northwestern Polytechnical University); Wendi He (xmly); Hongbin Zhou (Ximalaya Inc.); Lei Xie (NWPU)*

🕒 10:00–12:00 **Noise-Robust Voice Conversion by Conditional Denoising Training Using Latent Variables of Recording Quality and Environment**

*Takuto Igarashi (The University of Tokyo); Yuki Saito ("The University of Tokyo, Japan"); Kentaro Seki; Shinnosuke Takamichi (The University of Tokyo); Ryuichi Yamamoto; Kentaro Tachibana (LY Corp.); Hiroshi Saruwatari (The University of Tokyo)*

🕒 10:00–12:00 **Pre-training Neural Transducer-based Streaming Voice Conversion for Faster Convergence and Alignment-free Training**

*Hiroki Kanagawa; Takafumi Moriya; Yusuke Ijima (NTT Corporation)*

🕒 10:00–12:00 **Residual Speaker Representation for One-Shot Voice Conversion**

*Le Xu (NLPR); Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Tao Wang; Yong Ren (Institute of Automation, Chinese Academy of Sciences); Rongxiu Zhong (China Mobile Research Institute); Zhengqi Wen (Qiyuan Lab); Jianhua Tao (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences)*

🕒 10:00–12:00 **Disentangling prosody and timbre embeddings via voice conversion**

*Nicolas Gengembre; Olivier Le Blouch (Orange Labs); Cédric Gendrot (LPP)*

🕒 10:00–12:00 **LDM-SVC: Latent Diffusion**

**Model Based Zero-Shot Any-to-Any Singing Voice Conversion with Singer Guidance**

*Shihao Chen (University of Science and Technology of China); Yu Gu (Tencent AILab); Jie Zhang (University of Science and Technology of China (USTC)); Na Li; Rilin Chen (tencent); Liping Chen; Lirong Dai (University of Science and Technology of China)*

**A8-P4 - Training Methods, Self-Supervised Learning, Adaptation**

POSTER

📍 Poster Area 2A

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Tanel Alumäe**

🕒 10:00–12:00 **MSRS: Training Multimodal Speech Recognition Models from Scratch with Sparse Mask Optimization**

*Adriana Fernandez-Lopez; Honglie Chen; Pingchuan Ma (Meta); Lu Yin (University of Aberdeen); Qiao Xiao (Eindhoven University of Technology); Stavros Petridis (Meta); Shiwei Liu (UT Austin); Maja Pantic (Meta)*

🕒 10:00–12:00 **Speech and Language Recognition with Low-rank Adaptation of Pretrained Models**

*Amrutha Prasad (Idiap Research Institute); Srikanth Madikeri; Driss Khalil; Petr Motlicek (Idiap); Christof Schuepbach (Armasuisse Science and Technology)*

🕒 10:00–12:00 **Convolution-Augmented Parameter-Efficient Fine-Tuning for Speech Recognition**

*Kwangyoun Kim; Suwon Shon; Yi-Te Hsu; Prashant Sridhar (ASAPP); Karen Livescu (TTI-Chicago); Shinji Watanabe (Carnegie Mellon University)*

🕒 10:00–12:00 **LASER: Learning by Aligning Self-supervised Representations of Speech for Improving Content-related Tasks**

*Amit Meghanani (University of Sheffield); Thomas Hain (University of Sheffield)*

🕒 10:00–12:00 **Self-Train Before You Transcribe**

*Robert Flynn (Sheffield University); Anton Ragni (University of Sheffield)*



🕒 10:00–12:00 **Unsupervised Online Continual Learning for Automatic Speech Recognition**

*Steven Vander Eeckt (KU Leuven); Hugo Van hamme (KU Leuven)*

🕒 10:00–12:00 **Dual-path Adaptation of Pre-trained Feature Extraction Module for Robust Automatic Speech Recognition**

*Hao Shi (Kyoto University); Tatsuya Kawahara (Kyoto University)*

🕒 10:00–12:00 **Hierarchical Multi-Task Learning with CTC and Recursive Operation**

*Nahomi Kusunoki; Yosuke Higuchi; Tetsuji Ogawa; Tetsunori Kobayashi (Waseda University)*

🕒 10:00–12:00 **Boosting CTC-based ASR using inter-layer attention-based CTC loss**

*Keigo Hojo; Yukoh Wakabayashi (Toyohashi University of Technology); Kengo Ohta (National Institute of Technology, Anan College, Japan); Atsunori Ogawa (NTT Corporation); Norihide Kitaoka (Toyohashi University of Technology)*

🕒 10:00–12:00 **Self-training ASR Guided by Unsupervised ASR Teacher**

*Hyung Yong Kim; Byeong-Yeol Kim; Yunkyu Lim (42dot); Jihwan Park (42dot Inc.); Shukjae Choi (42dot); Yooncheol Ju (42dot, Seoul, Republic of Korea); Jinseok Park; Youshin Lim; Seung Woo Yu; Hanbin Lee (42dot); Shinji Watanabe (Carnegie Mellon University)*

🕒 10:00–12:00 **Personality-memory Gated Adaptation: An Efficient Speaker Adaptation for Personalized End-to-end Automatic Speech Recognition**

*Yue Gu (Harbin Institute of Technology); Zhihao Du (Speech Lab of DAMO Academy, Alibaba Group); Shiliang Zhang (Alibaba Group); Jiqing Han; Yongjun He (Harbin Institute of Technology)*

🕒 10:00–12:00 **Speaker Personalization for Automatic Speech Recognition using Weight-Decomposed Low-Rank Adaptation**

*George Joseph (Samsung); Arun Baby (Samsung Research, Bangalore)*

🕒 10:00–12:00 **Online Subloop Search via Uncertainty Quantization for Efficient Test-Time Adaptation**

*Jae-Hong Lee; Sang-Eon Lee; Dong-Hyun Kim; DoHee Kim; Joon-Hyuk Chang (Hanyang University)*

🕒 10:00–12:00 **ROAR: Reinforcing Original to Augmented Data Ratio Dynamics for Wav2vec2.0 Based ASR**

*Vishwanath Pratap Singh; Federico Malato; Ville Hautamäki (University of Eastern Finland); Md. Sahidullah (Institute for Advancing Intelligence, TCG CREST); Tomi H. Kinnunen (University of Eastern Finland)*

🕒 10:00–12:00 **Online Knowledge Distillation of Decoder-Only Large Language Models for Efficient Speech Recognition**

*Jeehye Lee (KakaoBrain); Hyeji Seo (kakaobrain)*

**A12-P4 - Speech Technology**

POSTER

📍 Poster Area 3B

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs : Joon Son Chung**

🕒 10:00–12:00 **Resource-Efficient Speech Quality Prediction through Quantization Aware Training and Binary Activation Maps**

*Mattias Nilsson (Friedrich Miescher Institute); Riccardo Miccini (Technical University of Denmark); Clement Laroche (GN Audio); Tobias Piechowiak (Jabra); Friedemann Zenke (Friedrich Miescher Institute)*

🕒 10:00–12:00 **Towards interfacing large language models with ASR systems using confidence measures and prompting**

*Maryam Naderi (Idiap); Enno Hermann; Alexandre Nanchen (Idiap Research Institute); Sevada Hovsepyan (Idiap Research Institute); Mathew Magimai.-Doss (Idiap Research Institute)*

🕒 10:00–12:00 **Text Injection for Neural Contextual Biasing**

*Zhong Meng (Google); Zelin Wu (Google LLC); Rohit Prabhavalkar (Google); Cal Peyser (Google Inc.); Weiran Wang; Nanxin Chen; Tara N. Sainath; Bhuvana Ramabhadran (Google)*



🕒 10:00–12:00 **Prompting Large Language Models with Mispronunciation Detection and Diagnosis Abilities**

Minglin Wu; Jing Xu; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

🕒 10:00–12:00 **Acceleration of Posteriorgram-based DTW by Distilling the Class-to-class Distances Encoded in the Classifier Used to Calculate Posteriors**

Haitong Sun; Jaehyun Choi; Nobuaki Minematsu; Daisuke Saito (The University of Tokyo)

🕒 10:00–12:00 **VECL-TTS: Voice identity and Emotional style controllable Cross-Lingual Text-to-Speech**

Ashishkumar Gudmalwar; Nirmesh Shah (Sony Research India); Sai Akarsh (SRI); Pankaj Wasnik (Sony Research India); Rajiv Ratn Shah (IIIT Delhi)

🕒 10:00–12:00 **Transferable speech-to-text large language model alignment module**

Boyong Wu (Cloudwalk Technology); Chao Yan (Cloudwalk Technology); Haoran Pu (Cloudwalk Technology)

🕒 10:00–12:00 **Sparse Binarization for Fast Keyword Spotting**

Jonathan Svirsky (Bar Ilan University); Uri Shaham (Yale University); Ofir Lindenbaum (Yale)

**SS1 - Speech Science, Speech Technology, and Gender (Special Session)**

POSTER

📍 Yanis Club

📅 Wednesday 04 September 2024 🕒

10:00–12:00 **Session chairs : Clíodhna Hughes (University of Sheffield), Nina Markl**

🕒 10:00–12:00 **Challenges of German Speech Recognition: A Study on Multi-ethnolectal Speech Among Adolescents**

Martha Schubert (Otto von Guericke University); Daniel Duran (Leibniz-Zentrum Allgemeine Sprachwissenschaft (ZAS)); Ingo Siegert (OvG University Magdeburg)

🕒 10:00–12:00 **Just Because We Camp, Doesn't Mean We Should: The Ethics of Modelling Queer Voices.**

Atli Sigurgeirsson (University of Edinburgh); Eddie L. Ungless (University of Edinburgh)

🕒 10:00–12:00 **Automatic Classification of News Subjects in Broadcast News: Application to a Gender Bias Representation Analysis**

Valentin Pelloin (INA); Lena Dodson (ARCOM); Émile Chapuis; Nicolas Hervé (INA); David Doukhan (Institut National de l'Audiovisuel (INA))

🕒 10:00–12:00 **Gender Representation in TV and Radio: Automatic Information Extraction methods versus Manual Analyses**

David Doukhan (Institut National de l'Audiovisuel (INA)); Lena Dodson; Manon Conan (ARCOM); Valentin Pelloin (INA); Aurélien Clamouse; Mélina Lepape; Géraldine Van Hille (ARCOM); Cécile Méadel (CARISM); Marlène Coulomb-Gully (LERASS)

🕒 10:00–12:00 **Acoustic Effects of Facial Feminisation Surgery on Speech and Singing: A Case Study**

Clíodhna Hughes; Guy Brown; Ning Ma (University of Sheffield); Nicola Dibben (Department of Music, University of Sheffield, UK)

🕒 10:00–12:00 **An inclusive approach to creating a palette of synthetic voices for gender diversity**

Éva Székely (KTH Royal Institute of Technology); Maxwell Hope (University of Delaware)

🕒 10:00–12:00 **Speech After Gender: A Trans-Feminine Perspective on Next Steps for Speech Science and Technology**

Robin Netzorg (UC Berkeley); Alyssa Cote (Alyssa's Voice Training); Sumi Koshin (SumianVoice); Klo Vivienne Garoute (TransVoiceLessons); Gopala Krishna Anumanchipalli (UC Berkeley)

🕒 10:00–12:00 **Voice Quality Variation in AAE: An Additional Challenge for Addressing Bias in ASR Models?**

Li-Fang Lai (Pomona College); Nicole Holliday (Pomona College)

🕒 10:00–12:00 **Articulatory Configurations across Genders and Periods in French Radio and TV archives**

*Benjamin Elie (University of Edinburgh); David Doukhan (Institut National de l'Audiovisuel (INA)); Rémi Uro (Institut Nation de l'Audiovisuel); Lucas Ondel-Yang (LISN, CNRS); Albert Rilliard (Université Paris Saclay, CNRS, LISN); Simon Devauchelle (Université Paris Saclay)*

🕒 10:00–12:00 **On the Encoding of Gender in Transformer-based ASR Representations**

*Aravind Krishnan; Badr M. Abdullah; Dietrich Klakow (Saarland University)*

**A1-O3 - Speech Production and Perception**

ORAL 📍 Panacea Amphitheater

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Leonardo Lancia**

🕒 13:30–13:50 **Towards a Quantitative Analysis of Coarticulation with a Phoneme-to-Articulatory Model**

*Chaofei Fan; Jaimie M. Henderson (Stanford); Chris Manning (Stanford University); Francis R. Willett (Stanford)*

🕒 13:50–14:10 **A comparative study of the impact of voiceless alveolar and palato-alveolar sibilants in English on lip aperture and protrusion during VCV production**

*Chetan Sharma; Vaishnavi Chandwanshi (Indian Institute of Science); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)*

🕒 14:10–14:30 **Measurement and simulation of pressure losses due to airflow in vocal tract models**

*Peter Birkholz (TU Dresden); Patrick Häsner (TU Dresden)*

🕒 14:30–14:50 **On The Performance of EMA-synchronized Speech and Stand-alone Speech in Acoustic-to-articulatory Inversion**

*Qiang Fang (Chinese Academy of Social Sciences)*

🕒 14:50–15:10 **Glottal inverse filtering and vocal tract tuning for the numerical simulation of vowel /a/ with different levels of vocal effort**

*Marc Freixes; Marc Arnela; Joan Claudi Socoró; Luis Joglar-Ongay; Oriol Guasch; Francesc Alías-Pujol (La Salle - Universitat Ramon Llull)*

🕒 15:10–15:30 **Temporal Co-Registration of Simultaneous Electromagnetic Articulography and Electroencephalography for Precise Articulatory and Neural Data Alignment**

*Daniel Friedrichs (University of Zurich); Monica Lancheros (University of Geneva); Sam Kirkham (Lancaster University); Lei He (University of Zurich); Andrew Clark (LiRI, University of Zurich); Clemens Lutz (University of Zurich); Volker Dellwo (University of Zurich); Steven Moran (University of Neuchatel)*

**A9-O4 - Error Correction and Rescoring**

ORAL 📍 Aegle B

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Marco Siniscalchi, Ozlem Kalinli**

🕒 13:30–13:50 **SALSA: Speedy ASR-LLM Synchronous Aggregation**

*Ashish Mittal (IBM Research, IIT Bombay); Darshan Prabhu (Indian Institute of Technology, Bombay); Sunita Sarawagi (IIT Bombay); Preethi Jyothi (Indian Institute of Technology Bombay)*

🕒 13:50–14:10 **LI-TTA: Language Informed Test-Time Adaptation for Automatic Speech Recognition**

*Eunseop Yoon; Hee Suk Yoon (KAIST); John Harvill (University of Illinois at Urbana-Champaign); Mark Hasegawa-Johnson (University of Illinois); Chang D. Yoo (KAIST)*

🕒 14:10–14:30 **HypR: A comprehensive study for ASR hypothesis revising with a reference corpus**

*Yi-Wei Wang (National Taiwan University of Science and Technology); Ke-Han Lu (National Taiwan University);*

*Kuan-Yu Chen (National Taiwan University of Science and Technology)*

🕒 14:30–14:50 **Error Correction by Paying Attention to Both Acoustic and Confidence References for Automatic Speech Recognition**

*Yuchun Shu (Tianjin University); Bo Hu; Yifeng He (Baidu); Hao Shi (Kyoto University); Longbiao Wang; Jianwu Dang (Tianjin University)*

🕒 14:50–15:10 **Transformer-based Model for ASR N-Best Rescoring and Rewriting**

*Iwen E Kang; Christophe Van Gysel; Man-Hung Siu (Apple)*

🕒 15:10–15:30 **RASU: Retrieval Augmented Speech Understanding through Generative Modeling**

*Hao Yang; Min Zhang (Huawei); Minghan Wang (monash); Jiaxin Guo (Huawei)*

## A6-O4 - Multi-Channel Speech Enhancement

ORAL 📍 Aegle A

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Sharon Gannot, Robin Scheibler**

🕒 13:30–13:50 **Array Geometry-Robust Attention-Based Neural Beamformer for Moving Speakers**

*Marvin Tammen (University of Oldenburg); Tsubasa Ochiai (NTT); Marc Delcroix (NTT Communication Science Laboratories); Tomohiro Nakatani (NTT Communication Science Laboratories, NTT Corporation); Shoko Araki (NTT Corporation); Simon Doclo (University of Oldenburg)*

🕒 13:50–14:10 **FoVNet: Configurable Field-of-View Speech Enhancement with Low Computation and Distortion for Smart Glasses**

*Zhongweiyang Xu (University of Illinois Urbana-Champaign); Ali Aroudi (META); Ke Tan (Meta Platforms, Inc.); Ashutosh Pandey; Jung-Suk Lee (META); Buye Xu (Meta Reality Labs Research); Francesco Nesta (META)*

🕒 14:10–14:30 **Audio Enhancement from Multiple Crowdsourced Recordings: A Simple and Effective Baseline**

*Shiran Aziz (The Hebrew University); Yossi Adi (The Hebrew University of Jerusalem); Shmuel Peleg (The Hebrew University)*

🕒 14:30–14:50 **DeFTAN-AA: Array Geometry Agnostic Multichannel Speech Enhancement**

*Dongheon Lee (KAIST); Jung-Woo Choi (KAIST)*

🕒 14:50–15:10 **SA-MF: A Novel Self-Attention Mechanism for Multifeature Fusion in Speech Enhancement Networks**

*Ruizhe Wang (Harbin institute of technology)*

🕒 15:10–15:30 **PLDNet: PLD-Guided Lightweight Deep Network Boosted by Efficient Attention for Handheld Dual-Microphone Speech Enhancement**

*Nan Zhou; Youhai Jiang; Jialin Tan; Chongmin Qi (Shenzhen Transsion Holdings Co., Ltd, Shanghai Branch, China)*

## A2-O4 - Phonetics and Phonology: Segmentals and Suprasegmentals

ORAL 📍 Acesso

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Petra Wagner**

🕒 13:30–13:50 **Frication noise features of Polish voiceless dental fricative and affricate produced by children with and without speech disorder**

*Zuzanna Miodonska; Michal Kręcichwost (Silesian University of Technology); Ewa Kwaśniok (Medical Facility "Therapy" - Center for Health and Human Development); Agata Sage; Pawel Badura (Silesian University of Technology)*

🕒 13:50–14:10 **Key Acoustic Cues for the Realization of Metrical Prominence in Tone Languages: A Cross-Dialect Study**

*Yiyang Hu (Tianjin University); Hui Feng (Tianjin University)*



🕒 14:10–14:30 **Revisiting Pitch Jumps: F0 Ratio in Seoul Korean**

*Michaela Watkins; Paul Boersma; Silke Hamann (University of Amsterdam)*

🕒 14:30–14:50 **Aerodynamics of Sakata labial-velar oral stops**

*Lorenzo Maselli (Universiteit Gent, Université de Mons); Véronique Delvaux (UMONS)*

🕒 14:50–15:10 **Collecting Mandible Movement in Brazilian Portuguese**

*Donna Erickson (Haskins labs); Albert Rilliard (Université Paris Saclay, CNRS, LISN); Malin Svensson Lundmark (Lund University); Adelaide Silva (Universidade Federal do Paraná); Leticia Rebollo Couto (Universidade Federal do Rio de Janeiro (UFRJ)); Oliver Niebuhr (University of Southern Denmark); João Antonio de Moraes (Universidade Federal do Rio de Janeiro)*

🕒 15:10–15:30 **Pitch-driven adjustments in tongue positions: Insights from ultrasound imaging**

*May Pik Yu Chan (University of Pennsylvania); Jianjing Kuang (University of Pennsylvania)*

**A8-O5 - Neural Network Architectures for ASR 1**

ORAL 📍 Hippocrates

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–13:50 **Contemplative Mechanism for Speech Recognition: Speech Encoders can Think**

*Tien-Ju Yang (Google); Andrew Rosenberg (Google LLC); Bhuvana Ramabhadran (Google)*

🕒 13:50–14:10 **SummaryMixing: A Linear-Complexity Alternative to Self-Attention for Speech Recognition and Understanding**

*Titouan Parcollet (Samsung AI Cambridge / University of Cambridge); Rogier van Dalen (Samsung AI Center, Cambridge); Shucong Zhang; Sourav Bhattacharya (Samsung)*

🕒 14:10–14:30 **Boosting Hybrid Autoregressive Transducer-based ASR with Internal Acoustic Model Training and Dual Blank Thresholding**

*Takafumi Moriya (NTT Corporation); Takanori Ashihara (NTT); Masato Mimura (NTT corporation); Hiroshi Sato; Kohei Matsuura (NTT); Ryo Masumura (NTT Corporation); Taichi Asami (NTT)*

🕒 14:30–14:50 **RepCNN: Micro-sized, Mighty Models for Wakeword Detection**

*Arnav Kundu (Apple); Prateeth Nayak (Apple Inc.); Priyanka Padmanabhan; Devang Naik (Apple)*

🕒 14:50–15:10 **Conformer without Convolutions**

*Matthijs Van keirsbilck (NVIDIA Research); Alexander Keller (NVIDIA)*

🕒 15:10–15:30 **Linear-Complexity Self-Supervised Learning for Speech Processing**

*Shucong Zhang (Samsung); Titouan Parcollet (Samsung AI Cambridge / University of Cambridge); Rogier van Dalen (Samsung AI Center, Cambridge); Sourav Bhattacharya (Samsung)*

**A4-O5 - Speaker Verification**

ORAL 📍 1asso

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs :** **Elie Khoury, Anna Silnova**

🕒 13:30–13:50 **Challenging margin-based speaker embedding extractors by using the variational information bottleneck**

*Themos Stafylakis (Omilia - Conversational Intelligence); Anna Silnova; Johan Rohdin; Oldřich Plchot; Lukáš Burget (Brno University of Technology)*

🕒 13:50–14:10 **Collaborative Contrastive Learning for Hypothesis Domain Adaptation**

*Jen-Tzung Chien; I-Ping Yeh (National Yang Ming Chiao Tung University); Man-Wai Mak (The Hong Kong Polytechnic University)*

🕒 14:10–14:30 **Extraction of interpretable and shared speaker-specific speech attributes through binary auto-encoder**



*Imen Ben-Amor (LIA – Avignon Université); Jean-Francois Bonastre (LIA – Avignon Université / Inria, Defense&Security); Salima Mdhaffar (LIA – Avignon Université)*

🕒 14:30–14:50 **Reshape Dimensions Network for Speaker Recognition**

*Ivan Yakovlev (ID R&D); Rostislav Makarov; Andrei Balykin; Pavel Malov; Anton Okhotnikov (ID R&D Inc.); Nikita Torgashov (ID R&D Inc.)*

🕒 14:50–15:10 **To what extent can ASV systems naturally defend against spoofing attacks?**

*Jee-weon Jung (Carnegie Mellon University); Xin Wang (National Institute of Informatics); Nicholas Evans (EU-RECOM); Shinji Watanabe; Hye-jin Shim (Carnegie Mellon University); Hemlata Tak (Pindrop); Siddhant Arora (Carnegie Mellon University); Junichi Yamagishi (National Institute of Informatics); Joon Son Chung (KAIST)*

🕒 15:10–15:30 **ERes2NetV2: Boosting Short-Duration Speaker Verification Performance with Computational Efficiency**

*Yafeng Chen (Speech Lab, Alibaba Group); Siqi Zheng (Alibaba Group); Hui Wang (Speech Lab, Alibaba Group); Luyao Cheng (Alibaba Group); Qian Chen (Speech Lab, DAMO Academy, Alibaba Group); Shiliang Zhang (Alibaba Group); Junjie Li (University of Science and Technology of China)*

**A5-O6 - Speech and Audio Modelling**

ORAL 📍 Melampus

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Korin Richmond, Andrew Hines**

🕒 13:30–14:10 - Survey Talk

**Toward speech and audio foundation models**

*Shinji Watanabe (Carnegie Mellon University)*

🕒 14:10–14:30 **GenDistiller: Distilling Pre-trained Language Models based on an Autoregressive Generative Model**

*Yingying Gao (China Mobile Research); Shilei Zhang; Chao Deng (China Mobile Research Institute); Junlan Feng (China Mobile Research)*

🕒 14:30–14:50 **Gender and Language Identification in Multilingual Models of Speech: Exploring the Genericity and Robustness of Speech Representations**

*S  verine Guillaume (LACITO-CNRS); Maxime Fily (LLF); Alexis Michaud (LACITO-CNRS); Guillaume Wisniewski (Universit   Paris Cit   and LLF)*

🕒 14:50–15:10 **Neural Compression Augmentation for Contrastive Audio Representation Learning**

*Zhaoyu Wang (Imperial College London); Haohe Liu (University of Surrey); Harry Coppock; Bj  rn Schuller (Imperial College London); Mark D. Plumbley (University of Surrey)*

🕒 15:10–15:30 **Post-Net: A linguistically inspired sequence-dependent transformed neural architecture for automatic syllable stress detection**

*Sai Harshitha Aluru (Vidya Jyothi Institute Of Technology); Jhansi Mallela (Internantional Institute of Information Technology, Hyderabad); Chiranjeevi Yarra (International Institute of Information Technology Hyderabad)*

**A11-P1-B - Spoken Dialogue Systems and Conversational Analysis 2**

POSTER 📍 Poster Area 3B

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **Target conversation extraction: Source separation using turn-taking dynamics**

*Tuocho Chen; Qirui Wang; Bohan Wu; Malek Itani (University of Washington); Emre Sefik Eskimez (Microsoft); Takuya Yoshioka (AssemblyAI Inc.); Shyamnath Gollakota (University of Washington)*

🕒 13:30–15:30 **Investigating the Influence of Stance-Taking on Conversational Timing of Task-Oriented Speech**

Sara Ng; Gina-Anne Levow; Mari Ostendorf; Richard Wright (University of Washington)

Muqiao Yang; Xiang Li (Carnegie Mellon University); Umberto Cappellazzo (University of Trento); Shinji Watanabe; Bhiksha Raj (Carnegie Mellon University)

🕒 13:30–15:30 **Detecting the terminality of speech-turn boundary for spoken interactions in French TV and Radio content**

Rémi Uro (Institut Nation de l'Audiovisuel); Marie Tahon (LIUM); David Doukhan (Institut National de l'Audiovisuel (INA)); Antoine Laurent (Le Mans University); Albert Rilliard (Université Paris Saclay, CNRS, LISN)

🕒 13:30–15:30 **Convolutional gated MLP and attention improve end-to-end spoken language understanding**

Beida Zheng; Mijit Ablimit (Xinjiang University); Hankiz Yilahun (Xinjiang University); Askar Hamdulla (Xinjiang University)

🕒 13:30–15:30 **Utilization of Text Data for Response Timing Detection in Attentive Listening**

Yu Watanabe; Koichiro Ito (Graduate School of Informatics, Nagoya University); Shigeki Matsubara (Information Technology Center, Nagoya University)

🕒 13:30–15:30 **An Uyghur Extension to the MASSIVE Multi-lingual Spoken Language Understanding Corpus with Comprehensive Evaluations**

Ainikaerjiang Aimaiti; Di Wu; Liting Jiang; Gulnigeer Abdouwalli; Hao Huang; Wushour Silamu (xinjiang university)

🕒 13:30–15:30 **Backchannel prediction, based on who, when and what**

Yo-Han Park; Wencke Liermann; Yong-Seok Choi (Chungnam National University); Seung Hi Kim; Jeong-Uk Bang; Seung Yun (ETRI); Kong Joo Lee (Chungnam National Univ.)

🕒 13:30–15:30 **This Paper Had the Smartest Reviewers - Flattery Detection Utilising an Audio-Textual Transformer-Based Approach**

Lukas Christ (University of Augsburg); Shahin Amiriparian (Technical University of Munich); Friederike Hawighorst; Ann-Kathrin Schill; Angelo Boutalidakis (University of Passau); Lorenz Graf-Vlachy (TU Dortmund); Andreas König (University of Passau); Björn W. Schuller (Imperial College London)

🕒 13:30–15:30 **Uh, um and mh: Are filled pauses prone to conversational converge?**

Mathilde Hutin (FNRS, Université Catholique de Louvain); Junfei Hu; Liesbeth Degand (UCLouvain / FNRS)

🕒 13:30–15:30 **Unified Framework for Spoken Language Understanding and Summarization in Task-Based Human Dialog processing**

Eunice Akani (Aix Marseille University, Enedis); Frederic Bechet (Aix Marseille University); Benoît Favre (Lab. Informatique et Systèmes / Aix-Marseille University / CNRS); Romain Gemignani (ENEDIS)

🕒 13:30–15:30 **Investigation of look-ahead techniques to improve response time in spoken dialogue system**

Masaya Ohagi; Tomoya Mizumoto; Katsumasa Yoshikawa (SB Intuitions)

🕒 13:30–15:30 **Automated Human-Readable Label Generation in Open Intent Discovery**

Grant Anderson; Emma Hart; Dimitra Gkatzia (Edinburgh Napier University); Ian Beaver (Verint Systems Inc)

**A11-P1-A - Spoken Language Understanding**

POSTER 📍 Poster Area 3A

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **Towards Unified Evaluation of Continual Learning in Spoken Language Understanding**

🕒 13:30–15:30 **Applying Reinforcement Learning and Multi-Generators for Stage Transition in an Emotional Support Dialogue System**

Jeremy Chang; Kuan-Yu Chen; Chung-Hsien Wu (National Cheng Kung University)

## A3-P2-B - Emotion Recognition: Fairness, Variability, Uncertainty

POSTER 📍 Poster Area 1B

📅 Wednesday 04 September 2024 ⌚  
13:30–15:30 **Session chairs : Julia Hirschberg**

### 🕒 13:30–15:30 **Dual-Constrained Dynamical Neural ODEs for Ambiguity-aware Continuous Emotion Prediction**

*Jingyao Wu (University of New South Wales); Ting Dang (University of Melbourne); Vidhyasaharan Sethu; Eliathamby Ambikairajah (The University of New South Wales)*

### 🕒 13:30–15:30 **An Inter-Speaker Fairness-Aware Speech Emotion Regression Framework**

*Hsing-Hang Chou (National Tsing Hua University); Woan-Shiuan Chien; Ya-Tse Wu (Department of Electrical Engineering, National Tsing Hua University); Chi-Chun Lee (National Tsing Hua University)*

### 🕒 13:30–15:30 **The Whole Is Bigger Than the Sum of Its Parts: Modeling Individual Annotators to Capture Emotional Variability**

*James Tavernor; Yara El-Tawil; Emily Mower Provost (University of Michigan)*

### 🕒 13:30–15:30 **Iterative Prototype Refinement for Ambiguous Speech Emotion Recognition**

*Haoqin Sun; Shiwan Zhao (Nankai University); Xiangyu Kong (University of Leicester); Xuechen Wang; Hui Wang; Jiaming Zhou; Yong Qin (Nankai University)*

### 🕒 13:30–15:30 **An Investigation of Group versus Individual Fairness in Perceptually Fair Speech Emotion Recognition**

*Woan-Shiuan Chien (Department of Electrical Engineering, National Tsing Hua University); Chi-Chun Lee (National Tsing Hua University)*

### 🕒 13:30–15:30 **Are you sure? Analysing Uncertainty Quantification Approaches for Real-world Speech Emotion Recognition**

*Oliver Schrüfer (audEERING); Manuel Milling (Technical University of Munich); Felix Burkhardt (audEERING GmbH); Florian Eyben; Björn Schuller (audEERING)*

### 🕒 13:30–15:30 **Speech emotion recognition with deep learning beamforming on a distant human-robot interaction scenario**

*Ricardo García (Universidad de Chile); Rodrigo Mahu (Universidad de Chile); Nicolás Grágeda (Universidad de Chile); Alejandro Luzanto; Nicolas Bohmer (University of Chile); Carlos Busso (University of Texas at Dallas); Néstor Becerra Yoma (University of Chile)*

## A3-P2 - Topics in Paralinguistics

POSTER 📍 Poster Area 1A

📅 Wednesday 04 September 2024 ⌚  
13:30–15:30 **Session chairs : Bjoern Schuller**

### 🕒 13:30–15:30 **Speaking of Health: Leveraging Large Language Models to assess Exercise Motivation and Behavior of Rehabilitation Patients**

*Suhas BN (Pennsylvania State University); Amanda Rebar (Central Queensland University); Saeed Abdullah (Penn State University, USA)*

### 🕒 13:30–15:30 **Confidence Estimation for Automatic Detection of Depression and Alzheimer's Disease Based on Clinical Interviews**

*Wen Wu (University of Cambridge); Chao Zhang (Tsinghua University); Philip C. Woodland (Machine Intelligence Laboratory, Cambridge University Department of Engineering)*

### 🕒 13:30–15:30 **Who Finds This Voice Attractive? A Large-Scale Experiment Using In-the-Wild Data**

*Hitoshi Suda (National Institute of Advanced Industrial Science and Technology (AIST)); Aya Watanabe; Shinosuke Takamichi (The University of Tokyo)*

### 🕒 13:30–15:30 **Acoustical analysis of the initial phones in speech-laugh**

*Ryo Setoguchi (Chiba institute of technology); Yoshiko Arimoto (Chiba Institute of Technology)*



🕒 13:30–15:30 **On Calibration of Speech Classification Models: Insights from Energy-Based Model Investigations**

Yaqian Hao (China Mobile Research Institute); Chenguang Hu (chinamobile); Yingying Gao; Shilei Zhang; Junlan Feng (China Mobile Research Institute)

🕒 13:30–15:30 **Emotion-Aware Speech Self-Supervised Representation Learning with Intensity Knowledge**

Rui Liu (Inner Mongolia University); Zening Ma (Inner Mongolia University)

**A7-P3-B - Speech Synthesis: Paradigms and Methods 2**

POSTER 📍 Poster Area 4B

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Xiaofei Wang**

🕒 13:30–15:30 **Small-E: Small Language Model with Linear Attention for Efficient Speech Synthesis**

Théodor Lemerle (IRCAM); Nicolas Obin (STMS (Ircam, CNRS, Sorbonne Université)); Axel Roebel (Ircam)

🕒 13:30–15:30 **Improving Robustness of LLM-based Speech Synthesis by Learning Monotonic Alignment**

Paarth Neekhara (NVIDIA); Shehzeen Hussain (UCSD); Subhankar Ghosh; Jason Li; Boris Ginsburg (NVIDIA)

🕒 13:30–15:30 **Synthesizing Long-Form Speech merely from Sentence-Level Corpus with Content Extrapolation and LLM Contextual Enrichment**

Shijie Lai (School of Information Science and Engineering, Xinjiang University); Minglu He; Zijing Zhao; Kai Wang; Hao Huang (Xinjiang University); Jichen Yang (GPNU)

🕒 13:30–15:30 **FluentEditor: Text-based Speech Editing by Considering Acoustic and Prosody Consistency**

Rui Liu; Jiatian Xi (Inner Mongolia University); Ziyue Jiang (Zhejiang University); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)

🕒 13:30–15:30 **Phonetic Enhanced Language Modeling for Text-to-Speech Synthesis**

Kun Zhou; Shengkui Zhao; Yukun Ma; Chong Zhang (Alibaba Group); Hao Wang (Alibaba); Dianwen Ng (Alibaba Group / Nanyang Technological University); Chongjia Ni (Alibaba); Trung Hieu Nguyen (Alibaba Group); Jia Qi Yip (Nanyang Technological University); Bin Ma (Alibaba)

🕒 13:30–15:30 **High Fidelity Text-to-Speech Via Discrete Tokens Using Token Transducer and Group Masked Language Model**

Joun Yeop Lee (Samsung Research); Myeonghun Jeong; Minchan Kim (Seoul National University); Ji-Hyun Lee; Hoon-Young Cho (Samsung Research); Nam Soo Kim (Seoul National University)

🕒 13:30–15:30 **FastLips: an End-to-End Audiovisual Text-to-Speech System with Lip Features Prediction for Virtual Avatars**

Martin Lenglet; Olivier Perrotin (Univ. Grenoble Alpes, CNRS, Grenoble INP, GIPSA-lab); Gérard Bailly (GIPSA-Lab/CNRS)

**A7-P3-A - Speech Synthesis: Paradigms and Methods 1**

POSTER 📍 Poster Area 4A

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Eva Szekely**

🕒 13:30–15:30 **Highly Intelligent Speaker-Independent Articulatory Synthesis**

Charles McGhee; Kate Knill; Mark Gales (University of Cambridge)

🕒 13:30–15:30 **An Attribute Interpolation Method in Speech Synthesis by Model Merging**

Masato Murata; Koichi Miyazaki; Tomoki Koriyama (CyberAgent, Inc.)

🕒 13:30–15:30 **Low-dimensional Style Token Control for Hyperarticulated Speech Synthesis**

Miku Nishihara (Nagoya Institute of Technology); Dan Wells; Korin Richmond (University of Edinburgh); Aidan Pine (National Research Council Canada)



🕒 13:30–15:30 **Single-Codec: Single-Codebook Speech Codec towards High-Performance Speech Generation**

Hanzhao Li; Liumeng Xue (Northwestern Polytechnical University); Haohan Guo (The Chinese University of Hong Kong); Xinfa Zhu; Yuanjun Lv (Northwestern Polytechnical University); Lei Xie (NWPU); Yunlin Chen; Hao Yin; Zhifei Li (Mobvoi)

🕒 13:30–15:30 **LiveSpeech: Low-Latency Zero-shot Text-to-Speech via Autoregressive Modeling of Audio Discrete Codes**

Trung Dang; David Aponte (Microsoft); Dung Tran (Microsoft Corporation); Kazuhito Koishida (Microsoft)

🕒 13:30–15:30 **ClariTTS: Feature-ratio Normalization and Duration Stabilization for Code-mixed Multi-speaker Speech Synthesis**

Changhwan Kim (Hyundai Motor Group)

🕒 13:30–15:30 **Multi-modal Adversarial Training for Zero-Shot Voice Cloning**

John Janiczek (Zoom Video Communications); Dading Chong (Zoom Video Communication); Dongyang Dai (Zoom); Arlo Faria; Chao Wang; Tao Wang; Yuzong Liu (Zoom Video Communications)

🕒 13:30–15:30 **Learning Fine-Grained Controllability on Speech Generation via Efficient Fine-Tuning**

Chung-Ming Chien (Toyota Technological Institute at Chicago); Andros Tjandra (Meta Platforms, Inc); Apoorv Vyas (Meta); Matt Le; Bowen Shi (Meta Platforms, Inc); Wei-Ning Hsu (Meta)

🕒 13:30–15:30 **Modeling Vocal Tract Like Acoustic Tubes Using the Immersed Boundary Method**

Rongshuai Wu; Debasish Ray Mohapatra; Sidney Fels (University of British Columbia)

**A5-P3-B - Generative Models for Speech and Audio**

📄 POSTER 📍 Poster Area 2B

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : David Harwath**

🕒 13:30–15:30 **ConsistencyTTA: Accelerating Diffusion-Based Text-to-Audio Generation with Consistency Distillation**

Yatong Bai (University of California, Berkeley); Trung Dang (Microsoft); Dung Tran (Microsoft Corporation); Kazuhito Koishida (Microsoft); Somayeh Sojoudi (UC Berkeley)

🕒 13:30–15:30 **Audio Editing with Non-Rigid Text Prompts**

Francesco Paissan (FBK); Luca Della Libera (Concordia University); Zhepei Wang; Paris Smaragdīs (University of Illinois at Urbana-Champaign); Mirco Ravanelli (Université de Montréal); Cem Subakan (Mila)

🕒 13:30–15:30 **Phoneme Discretized Saliency Maps for Explainable Detection of AI-Generated Voice**

Shubham Gupta (Mila); Mirco Ravanelli (Université de Montréal); Pascal Germain (Université Laval); Cem Subakan (Mila)

🕒 13:30–15:30 **Exploring compressibility of transformer based text-to-music (TTM) models**

Vasileios Moschopoulos; Thanasis Kotsiopoulos (Information Technologies Institute, Centre for Research and Technology - Hellas, Thessaloniki, Greece); Pablo Peso Parada (Samsung Research UK); Konstantinos Niki-foridis (Information Technologies Institute, Centre for Research and Technology - Hellas, Thessaloniki, Greece); Alexandros Stergiadis (Pragma-IoT); Gerasimos Papakostas (Information Technologies Institute, Centre for Research and Technology - Hellas, Thessaloniki, Greece); Md Asif Jalal; Jisi Zhang (Samsung Research UK); Anastasios Drosou (CERTH-ITI); Karthikeyan Saravanan (Samsung Research, UK)

🕒 13:30–15:30 **Sound of Vision: Audio Generation from Visual Text Embedding through Training Domain Discriminator**

Jaewon Kim; Won-Gook Choi; Seyun Ahn; Joon-Hyuk Chang (Hanyang University)

🕒 13:30–15:30 **Retrieval-Augmented Classifier Guidance for Audio Generation**

Ho-Young Choi; Won-Gook Choi; Joon-Hyuk Chang (Hanyang University)

🕒 13:30–15:30 **Efficient Fine-tuning of Audio Spectrogram Transformers via Soft Mixture of Adapters**

*Umberto Cappellazzo (University of Trento); Daniele Falavigna; Alessio Brutti (FBK)*

🕒 13:30–15:30 **PAM: Prompting Audio-Language Models for Audio Quality Assessment**

*Soham Deshmukh (Microsoft); Dareen Alharthi (Carnegie Mellon University); Benjamin Martinez Elizalde; Hannes Gamper; Mahmoud Al Ismail (Microsoft); Rita Singh; Bhiksha Raj (Carnegie Mellon University); Huaming Wang (Microsoft)*

**A5-P3-A - Spatial Audio and Acoustics**

POSTER 📍 Poster Area 2A

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Alessio Brutti, Yoshiaki Bando**

🕒 13:30–15:30 **Classification of Room Impulse Responses and its application for channel verification and diarization**

*Yuri Khokhlov; Tatiana Prisyach; Anton Mitrofanov; Dmitry Dutov; Igor Agafonov; Tatiana Timofeeva; Aleksei Romanenko; Maxim Korenevsky (Speech Technology Center)*

🕒 13:30–15:30 **RIR-in-a-Box: Estimating Room Acoustics from 3D Mesh Data through Shoebox Approximation**

*Liam Kelley (AIP RIKEN, Télécom Paris); Diego Di Carlo; Aditya Arie Nugraha (RIKEN); Mathieu Fontaine (Télécom Paris); Yoshiaki Bando (National Institute of Advanced Industrial Science and Technology); Kazuyoshi Yoshii (Kyoto University)*

🕒 13:30–15:30 **Novel-view Acoustic Synthesis From 3D Reconstructed Rooms**

*Byeongjoo Ahn; Karren Yang; Brian Hamilton; Jonathan Sheaffer; Anurag Ranjan; Miguel Sarabia; Oncel Tuzel; Jen-Hao Rick Chang (Apple)*

🕒 13:30–15:30 **Spatial Acoustic Enhancement Using Unbiased Relative Harmonic Coefficients**

*Liang Tao; Maoshen Jia (Beijing University of Technology); Yonggang Hu (Southwest Institute of Electronics and Telecommunication Technology of China); Changchun Bao (Beijing University of Technology)*

🕒 13:30–15:30 **Design of Feedback Active Noise Cancellation Filter Using Nested Recurrent Neural Networks**

*Alireza Bayestehtashk; Amit Kumar (Skyworks Inc); Mike Wurtz (Skyworks Inc.)*

🕒 13:30–15:30 **Neuromorphic Keyword Spotting with Pulse Density Modulation MEMS Microphones**

*Sidi Yaya Arnaud Yarga (Université de Sherbrooke); Sean U N Wood (Université de Sherbrooke)*

🕒 13:30–15:30 **RevRIR: Joint Reverberant Speech and Room Impulse Response Embedding using Contrastive Learning with Application to Room Shape Classification**

*Jacob Bitterman (OrCam Technologies LTD); Daniel Levi (Bar-Ilan University); Hilel Hagai Diamandi (Yale University); Sharon Gannot (Bar-Ilan University); Tal Rosenwein (OrCam Technologies LTD)*

**SS3 - Computational Models of Human Language Acquisition, Perception, and Production (Special Session)**

POSTER 📍 Yanis Club

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs : Okko Rasinen, Marvin Lavechin**

🕒 13:30–15:30 **Information-theoretic hypothesis generation of relative cue weighting for the voicing contrast**

*Annika Heuser (University of Pennsylvania); Jianjing Kuang (University of Pennsylvania)*

🕒 13:30–15:30 **Neurocomputational model of speech recognition for pathological speech detection: a case study on Parkinson's disease speech detection**

*Sevada Hovsepyan (Idiap Research Institute); Mathew Magimai.-Doss (Idiap Research Institute)*

🕒 13:30–15:30 **Simulating articulatory trajectories with phonological feature interpolation**

*Angelo Ortiz Tandazo (Ecole normale supérieure, Grenoble Alpes Univ.); Thomas Schatz (Aix-Marseille Univ., CNRS, LIS); Thomas Hueber (CNRS/Grenoble Alpes Univ.); Emmanuel Dupoux (EHESS, ENS, PSL University, CNRS, INRIA, META)*

🕒 13:30–15:30 **A Pilot Study of GSLM-based Simulation of Foreign Accentuation Only Using Native Speech Corpora**

*Kentaro Onda; Joonyong Park; Nobuaki Minematsu; Daisuke Saito (The University of Tokyo)*

🕒 13:30–15:30 **Dirichlet process mixture model based on topologically augmented signal representation for clustering infant vocalizations**

*Guillem Bonafos (Université Jean Monnet); Clara Bourot (Université Aix-Marseille); Pierre Pudlo (Université Aix-Marseille); Jean-Marc Freyermuth; Laurence Reboul (Université Aix-Marseille); Samuel Tronçon (Résurgences R&D); Arnaud Rey (Université Aix-Marseille)*

🕒 13:30–15:30 **A data-driven model of acoustic speech intelligibility for optimization-based models of speech production**

*Benjamin Elie (University of Edinburgh); Juraj Simko (University of Helsinki); Alice Turk (The University of Edinburgh)*

🕒 13:30–15:30 **The Difficulty and Importance of Estimating the Lower and Upper Bounds of Infant Speech Exposure**

*Joseph Coffey (ECOLE NORMALE SUPERIEURE); Okko Räsänen (Tampere University); Camila Scaff (University of Zurich, Institute of Evolutionary Medicine (IEM)); Alejandrina Cristia (Exelang, CNRS, LSCP)*

🕒 13:30–15:30 **Spoken-Term Discovery using Discrete Speech Units**

*Benjamin van Niekerk (Stellenbosch University); Julian Zaidi; Marc-André Carbonneau (Ubisoft); Herman Kamper (Stellenbosch University)*

🕒 13:30–15:30 **Orthogonality and isotropy of speaker and phonetic information in self-supervised speech representations**

*Mukhtar Mohamed (The University Of Edinburgh); Oli Danyi Liu (University of Edinburgh); Hao Tang (The University of Edinburgh); Sharon Goldwater (University of Edinburgh)*

**ST3 - Show and Tell 3**

**SAT** 📍 Exhibition

📅 Wednesday 04 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **OCEAN-AI: open multimodal framework for personality traits assessment and HR-processes automatization**

*Elena Ryumina; Dmitry Ryumin (St. Petersburg Federal Research Center of the Russian Academy of Sciences, St. Petersburg, Russia); Alexey Karpov (ITMO University, St. Petersburg, Russia)*

🕒 13:30–15:30 **VoxMed: one-step respiratory disease classifier using digital stethoscope sounds**

*Paridhi Mundra; Manik Sharma; Yashwardhan Chaudhuri (IIIT-Delhi, India); Orchid Chetia Phukan; Arun Balaji Buduru (IIIT Delhi)*

🕒 13:30–15:30 **AVR: synergizing foundation models for audio-visual humor detection**

*Sarthak Sharma (IIIT-Delhi, India); Orchid Chetia Phukan (IIIT Delhi); Drishti Singh (IIIT-Delhi, India); Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)*

🕒 13:30–15:30 **CreakVC: a voice conversion tool for modulating creaky voice**

*Harm Lameris; Joakim Gustafson; Éva Székely (KTH Royal Institute of Technology)*

🕒 13:30–15:30 **EZTalking: English assessment platform for teachers and students**

*Yu-Sheng Tsao; Yung-Chang Hsu (EZAI, Taiwan); Jiun-Ting Li (National Taiwan Normal University, Taipei, Taiwan); Siang-Hong Weng (EZAI, Taiwan); Tien-Hong Lo (Department of Computer Science and Information Engineering, National Taiwan Normal University); Berlin Chen (National Taiwan Normal University)*



🕒 13:30–15:30 **Leveraging large language models for post-transcription correction in contact centers**

*Bramhendra Koilakuntla; Prajesh Rana; Paras Ahuja; Srikanth Konjeti; Jithendra Vepa (Observe.AI, India)*

🕒 13:30–15:30 **ATTEST: an analytics tool for the testing and evaluation of speech technologies**

*Dmitrii Obukhov; Marcel de Korte; Andrey Adaschik (Constructor Technology, Schaffhausen, Switzerland)*

🕒 13:30–15:30 **PhoneViz: exploring alignments at a glance**

*Margot Masson (School of Computer Science, University College Dublin, Ireland; SFI Centre for Research Training in Digitally-Enhanced Reality, Ireland); Erfan A. Shams; Iona Gessinger; Julie Carson-Berndsen (University College Dublin)*

🕒 13:30–15:30 **Gryannote open-source speaker diarization labeling tool**

*Clément Pages (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France); Hervé Bredin (CNRS)*

🕒 13:30–15:30 **Real-time scheme for rapid extraction of speaker embeddings in challenging recording conditions**

*Kai Liu; Ziqing Du (Huawei Technologies Co., Ltd.); Zhou Huan (AARC, Huawei Technologies Co., Ltd.); Xucheng Wan; Naijun Zheng (Huawei Technologies Co., Ltd.)*

🕒 13:30–15:30 **A toolkit for joint speaker diarization and identification with application to speaker-attributed ASR**

*Giovanni Morrone; Enrico Zovato; Fabio Brugnara (Almawave); Enrico Sartori (Almawave S.p.A., Voice Engineering Lab, Italy); Leonardo Badino (Almawave)*

**A13-O3 - Dysarthric Speech Assessment**

ORAL 📍 Panacea Amphitheater

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs : Mathew Magimai Doss, Melanie Jouaiti**

🕒 16:00–16:20 **Automatic Assessment of Dysarthria using Speech and synthetically generated Electroglottograph signal**

*Fathima Zaheera (National Institute of Technology Patna); Supriya Shetty (Indian Institute of Information Technology, Dharwad); Gayadhar Pradhan (NIT Patna); Deepak K T (IIIT-Dharwad)*

🕒 16:20–16:40 **CSDS: Chinese Dysarthria Speech Database**

*Yan Wan; Mengyi Sun (CAS Key Laboratory of Behavioral Science, Institute of Psychology); Xinchun Kang (Beijing Key Laboratory of Information Service Engineering, Beijing Union University); Jingting Li (Chinese Academy of Sciences); Pengfei Guo (Jiangsu University of Science and Technology); Ming Gao (University of Science and Technology of China); Su-Jing Wang (Chinese Academy of Sciences)*

🕒 16:40–17:00 **Exploring Syllable Discriminability during Diadochokinetic Task with Increasing Dysarthria Severity for Patients with Amyotrophic Lateral Sclerosis**

*Neelesh Samptur (PES University, Bengaluru); Tanuka Bhattacharjee (Indian Institute of Science); Anirudh Chakravarty K (PES University, Bengaluru); Seena Vengalil (National Institute of Mental Health and Neurosciences); Yamini Belur; Atchayaram Nalini (NIMHANS); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)*

🕒 17:00–17:20 **Beyond Binary: Multiclass Paraphasia Detection with Generative Pre-trained Transformers and End-to-End Models**

*Matthew Perez; Aneesha Sampath; Minxue Niu; Emily Mower Provost (University of Michigan)*

🕒 17:20–17:40 **Electroglottography for the assessment of dysphonia in Parkinson's disease and multiple system atrophy**

*Khalid Daoudi (INRIA); Solange Milhé de Saint Victor; Alexandra Foubert-Samier (University Hospital of Bordeaux); Margherita Fabbri (University Hospital of Toulouse); Anne Pavy-Le Traon; Olivier Rascol (University Hospital of Toulouse); Virginie Woisard (Hospitals of Toulouse); Wassilios G. Meissner (University Hospital of Bordeaux)*

🕒 17:40–18:00 **CoLM-DSR: Leveraging Neu-**



## ral Codec Language Modeling for Multi-Modal Dysarthric Speech Reconstruction

Xueyuan Chen (The Chinese University of Hong Kong); Dongchao Yang (The Chinese University of Hong Kong); Dingdong Wang; Xixin Wu (The Chinese University of Hong Kong); Zhiyong Wu (Tsinghua University); Helen Meng (The Chinese University of Hong Kong)

### A10-O3 - Speech Assessment

ORAL 📍 Aegle B

📅 Wednesday 04 September 2024 ⌚  
16:00–18:00 Session chairs :

#### 🕒 16:00–16:20 Optimizing Automatic Speech Assessment: W-RankSim Regularization and Hybrid Feature Fusion Strategies

Chung-Wen Wu (National Taiwan Normal University); Berlin Chen (National Taiwan Normal University)

#### 🕒 16:20–16:40 Context-Aware Speech Recognition Using Prompts for Language Learners

Jian Cheng (Google)

#### 🕒 16:40–17:00 A Dataset and Two-pass System for Reading Miscue Detection

Raj Gothi; Rahul Kumar (Indian Institute of Technology Bombay); Mildred Pereira (Indian Institute of Technology, Bombay); Nagesh Nayak (Indian Institute of Technology Bombay); Preeti Rao (Indian Institute of Technology Bombay)

#### 🕒 17:00–17:20 Oversampling, Augmentation and Curriculum Learning for Speaking Assessment with Limited Training Data

Tin Mei Lun; Ekaterina Voskoboinik; Ragheb Al-Ghezi; Tamas Grosz; Mikko Kurimo (Aalto University)

#### 🕒 17:20–17:40 Analysis and Visualization of Directional Diversity in Listening Fluency of World Englishes Speakers in the Framework of Mutual Shadowing

Yu Tomita; Yingxiang Gao; Nobuaki Minematsu (The University of Tokyo); Noriko Nakanishi (Kobe Gakuin University); Daisuke Saito (The University of Tokyo)

#### 🕒 17:40–18:00 Quantifying the Role of Textual Predictability in Automatic Speech Recognition

Sean Robertson (University of Toronto Computer Science Department); Gerald Penn; Ewan Dunbar (University of Toronto)

### A3-O4 - New Avenues in Emotion Recognition

ORAL 📍 Iasso

📅 Wednesday 04 September 2024 ⌚  
16:00–18:00 Session chairs :

#### 🕒 16:00–16:20 Can Modelling Inter-Rater Ambiguity Lead To Noise-Robust Continuous Emotion Predictions?

Ya-Tse Wu (Department of Electrical Engineering, National Tsing Hua University); Jingyao Wu (University of New South Wales); Vidhyasaharan Sethu (The University of New South Wales); Chi-Chun Lee (National Tsing Hua University)

#### 🕒 16:20–16:40 MFDR: Multiple-stage Fusion and Dynamically Refined Network for Multimodal Emotion Recognition

Ziping Zhao; Tian Gao (Tianjin Normal University); Haishuai Wang (Zhejiang University); Björn W. Schuller (Imperial College London)

#### 🕒 16:40–17:00 Multimodal Fusion of Music Theory-Inspired and Self-Supervised Representations for Improved Emotion Recognition

Xiaohan Shi (Nagoya University); Xingfeng Li (Hainan University); Tomoki Toda (Nagoya University)

#### 🕒 17:00–17:20 Enrolment-based personalisation for improving individual-level fairness in speech emotion recognition

Andreas Triantafyllopoulos (Technical University of Munich); Björn W. Schuller (Imperial College London)

#### 🕒 17:20–17:40 Keep, Delete, or Substitute: Frame Selection Strategy for Noise-Robust Speech Emotion Recognition

*Seong-Gyun Leem (University of Texas at Dallas); Daniel Fulford (Boston University); Jukka-Pekka Onnela (T.H. Chan School of Public Health Harvard University); David Gard (San Francisco State University); Carlos Busso (University of Texas at Dallas)*

**17:40–18:00 Hierarchical Distribution Adaptation for Unsupervised Cross-corpus Speech Emotion Recognition**

*Cheng Lu; Yuan Zong; Yan Zhao; Hailun Lian; Tianhua Qi (Southeast University); Björn Schuller (Imperial College London); Wenming Zheng (Southeast University)*

**A6-O5 - Speech Quality and Intelligibility: Prediction and Enhancement**

**ORAL** **Aegle A**

**Wednesday 04 September 2024**  
**16:00–18:00 Session chairs : Stefan Goetze, Bernd Meyer**

**16:00–16:20 Transfer Learning from Whisper for Microscopic Intelligibility Prediction**

*Paul Best; Santiago Cuervo (LIS); Ricard Marxer (Université de Toulon, Aix Marseille Univ, CNRS, LIS, Toulon)*

**16:20–16:40 Non-Intrusive Speech Intelligibility Prediction for Hearing Aids using Whisper and Metadata**

*Ryandhimas E. Zezario (Academia Sinica); Fei Chen (Southern University of Science and Technology); Chiou-Shann Fuh (National Taiwan University); Hsin-Min Wang; Yu Tsao (Academia Sinica)*

**16:40–17:00 No-Reference Speech Intelligibility Prediction Leveraging a Noisy-Speech ASR Pre-Trained Model**

*Haolan Wang; Amin Edraki; Wai-Yip Chan (Queen's University); Iván López-Espejo (University of Granada); Jesper Jensen (Demant A/S)*

**17:00–17:20 The PESQetarian: On the Relevance of Goodhart's Law for Speech Enhancement**

*Danilo de Oliveira; Simon Welker; Julius Richter; Timo Gerkmann (Universität Hamburg)*

**17:20–17:40 Enhancing Non-Matching Reference Speech Quality Assessment through Dynamic Weight Adaptation**

*Bao Thang Ta (Viettel Cyberspace Center); Van Hai Do (Thuyloi University); Huynh Thi Thanh Binh (Hanoi University of Science and Technology)*

**17:40–18:00 Exploring Sentence Type Effects on the Lombard Effect and Intelligibility Enhancement: A Comparative Study of Natural and Grid Sentences**

*Hongyang Chen; Yuhong Yang; Zhongyuan Wang; Weiping Tu; Haojun Ai (Wuhan University); Cedar Lin (OPPO)*

**A8-O6 - ASR Model Training Methods**

**ORAL** **Hippocrates**

**Wednesday 04 September 2024**  
**16:00–18:00 Session chairs : Thomas Hai, Pedro Moreno**

**16:00–16:20 Investigating the Effect of Label Topology and Training Criterion on ASR Performance and Alignment Quality**

*Tina Raissi (RWTH Aachen University); Christoph Lüscher (AppTek GmbH); Simon Berger; Ralf Schlüter; Hermann Ney (RWTH Aachen University)*

**16:20–16:40 ASTRA: Aligning Speech and Text Representations for ASR without Sampling**

*Neeraj Gaur; Rohan Agrawal; Gary Wang; Parisa Haghani (Google); Andrew Rosenberg (Google LLC); Bhuvana Ramabhadran (Google)*

**16:40–17:00 Contextualized End-to-end Automatic Speech Recognition with Intermediate Biasing Loss**

*Muhammad Shakeel; Yui Sudo (Honda Research Institute Japan); Yifan Peng; Shinji Watanabe (Carnegie Mellon University)*

**17:00–17:20 Learnable Layer Selection and Model Fusion for Speech Self-Supervised Learning Models**

Sheng-Chieh Chiu (National Tsing Hua University); Chia-Hua Wu (Academia Sinica); Jih-Kang Hsieh (National Tsing Hua University); Yu Tsao; Hsin-Min Wang (Academia Sinica)

🕒 17:20–17:40 **Sequential Editing for Long Training of Speech Recognition Models**

Devang Kulshreshtha (Amazon); Nikolaos Pappas (University of Washington); Brady Houston (AWS AI Labs); Saket Dingliwal; Srikanth Ronanki (Amazon)

🕒 17:40–18:00 **Cross-Modality Diffusion Modeling and Sampling for Speech Recognition**

Chia-Kai Yeh; Chih-Chun Chen; Ching-Hsien Hsu; Jen-Tzung Chien (National Yang Ming Chiao Tung University)

**A7-O6 - Speech Synthesis: Vocoder**

ORAL 📍 Melampus

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

🕒 16:00–16:20 **FreeV: Free Lunch For Vocoder Through Pseudo Inversed Mel Filter**

Yuanjun Lv (Northwestern Polytechnical University); Hai Li (iQIYI Inc); Ying Yan (Iqiyi); Junhui Liu (iQIYI Inc); Danming Xie (iQIYI); Lei Xie (NWPU)

🕒 16:20–16:40 **QGAN: Low Footprint Quaternion Neural Vocoder for Speech Synthesis**

Aryan Chaudhary (IIIT Delhi); Vinayak Abrol (Indraprastha Institute of Technology Delhi)

🕒 16:40–17:00 **JenGAN: Stacked Shifted Filters in GAN-Based Speech Synthesis**

Hyunjae Cho (Seoul National University); Junhyeok Lee (Supertone Inc.); Wonbin Jung (Korea Advanced Institute of Science and Technology)

🕒 17:00–17:20 **FA-GAN: Artifacts-free and Phase-aware High-fidelity GAN-based Vocoder**

Rubing Shen (Wuhan University); Yanzhen Ren (Computer School of Wuhan University); Zongkun Sun (Wuhan University)

🕒 17:20–17:40 **QHM-GAN: Neural Vocoder based on Quasi-Harmonic Modeling**

Shaowen Chen (Nagoya University); Tomoki Toda (Nagoya University)

🕒 17:40–18:00 **BiVocoder: A Bidirectional Neural Vocoder Integrating Feature Extraction and Waveform Generation**

Hui-Peng Du; Ye-Xin Lu; Yang Ai; Zhen-Hua Ling (University of Science and Technology of China)

**A5-O7 - Speech and Audio Analysis**

ORAL 📍 Acesso

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :** Tom Bäckström, Minje Kim

🕒 16:00–16:20 **Predefined Prototypes for Intra-Class Separation and Disentanglement**

Antonio Almudévar (University of Zaragoza); Théo Mariotte (LTCI, Télécom Paris, Institut Polytechnique de Paris); Alfonso Ortega (University of Zaragoza); Marie Tahon (LIUM); Luis Vicente; Antonio Miguel; Eduardo Lleida (University of Zaragoza)

🕒 16:20–16:40 **VAE-based Phoneme Alignment Using Gradient Annealing and SSL Acoustic Features**

Tomoki Koriyama (CyberAgent, Inc.)

🕒 16:40–17:00 **A Transformer-Based Voice Activity Detector**

Biswajit Karan; Joshua Jansen van Vuren; Febe de Wet (Stellenbosch University); Thomas Niesler (University of Stellenbosch)

🕒 17:00–17:20 **XANE: eXplainable Acoustic Neural Embeddings**

Sri Harsha Dumpala (Dalhousie University/Vector Institute); Dushyant Sharma (Microsoft Inc); Chandramouli Shama Sastry (Dalhousie University/Vector Institute); Stanislav Kruchinin; James Fosburgh (Microsoft Inc); Patrick A. Naylor (Imperial College London)

🕒 17:20–17:40 **A comparative analysis of sequential models that integrate syllable de-**



### pendency for automatic syllable stress detection

Jhansi Mallela (International Institute of Information Technology, Hyderabad); Sai Harshitha Aluru (Vidya Jyothi Institute Of Technology); Chiranjeevi Yarra (International Institute of Information Technology Hyderabad)

🕒 17:40–18:00 **Motion Based Audio-Visual Segmentation**

Jiahao Li; Miao Liu (Beijing Institute of Technology); Shu Yang (Tsinghua University); Jing Wang; Xiang Xie (Beijing Institute of Technology)

## A9-P2 - Cross-Lingual and Multilingual Processing

📄 POSTER 📍 Poster Area 2A

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs : Anton Ragni, Takafumi Moriya**

🕒 16:00–18:00 **A Parameter-efficient Language Extension Framework for Multilingual ASR**

Wei Liu (The Chinese University of Hong Kong); Jingyong Hou; Dong Yang; Muyong Cao (Tencent); Tan Lee (The Chinese University of Hong Kong)

🕒 16:00–18:00 **LoRA-Whisper: Parameter-Efficient and Extensible Multilingual ASR**

Zheshu Song (Shanghai Jiao Tong University); Jianheng Zhuo (Shanghai Jiaotong university); Yifan Yang; Ziyang Ma (Shanghai Jiao Tong University); Shi-Xiong Zhang (Capital One); Xie Chen (Shanghai Jiaotong University)

🕒 16:00–18:00 **mHuBERT-147: A Compact Multilingual HuBERT Model**

Marcely Zanon Boito (NAVER LABS Europe); Vivek Iyer (The University of Edinburgh); Nikolaos Lagos; Laurent Besacier; Ioan Calapodescu (Naver Labs Europe)

🕒 16:00–18:00 **All Ears: Building Self-Supervised Learning based ASR models for Indian Languages at scale**

Vasista Sai Lodagala (Kanari AI); Abhishek Biswas (Speech Lab, IIT Madras); Shoutrik Das (Indian Institute

of Technology, Madras); Jordan F (IIT Madras); S Umesh (IIT Chennai)

🕒 16:00–18:00 **A Unified Approach to Multilingual Automatic Speech Recognition with Improved Language Identification for Indic Languages**

Nikhil Jakhar (Samsung Research Institute); Sudhanshu Srivastava (SRIB); Arun Baby (Samsung Research, Bangalore)

🕒 16:00–18:00 **Integrating Speech Self-Supervised Learning Models and Large Language Models for ASR**

Ling Dong; Zhengtao Yu; Wenjun Wang; Yuxin Huang; Shengxiang Gao; Guojiang Zhou (Kunming University of science and technology)

🕒 16:00–18:00 **On the Effects of Heterogeneous Data Sources on Speech-to-Text Foundation Models**

Jinchuan Tian; Yifan Peng; William Chen; Kwanghee Choi (Carnegie Mellon University); Karen Livescu (TTI-Chicago); Shinji Watanabe (Carnegie Mellon University)

🕒 16:00–18:00 **Less is More: Accurate Speech Recognition & Translation without Web-Scale Data**

Krishna C. Puvvada; Piotr Żelasko; He Huang; Oleksii Hrinchuk; Nithin Rao Koluguri; Kunal Dhawan; Somshubra Majumdar (NVIDIA); Elena Rastorgueva (NVIDIA Corporation); Zhehuai Chen; Vitaly Lavrukhin; Jagadeesh Balam; Boris Ginsburg (NVIDIA)

🕒 16:00–18:00 **The Greek podcast corpus: Competitive speech models for low-resourced languages with weakly supervised data**

Georgios Paraskevopoulos; Chara Tsoukala (Athena Research Center); Athanasios Katsamanis ("ATHENA R.C., Behavioral Signal Technologies"); Vassilis Katsouros (Athena Research Center)

🕒 16:00–18:00 **Speech Recognition for Greek Dialects: A Challenging Benchmark**

Socrates Vakirtzian; Chara Tsoukala (Athena Research Center); Stavros Bompolas (ARCHIMEDES Unit | Athena Research Center); Katerina Mouzou (Athena Research Center); Vivian Stamou (ILSP/Athena R.C.); Georgios Paraskevopoulos (Athena Research Center); Antonios



*Dimakis (National and Kapodistrian University of Athens); Stella Markantonatou (ATHENA RC); Angela Ralli (University of Patras); Antonios Anastasopoulos (George Mason University)*

🕒 16:00–18:00 **LUPET: Incorporating Hierarchical Information Path into Multilingual ASR**

*Wei Liu (The Chinese University of Hong Kong); Jingyong Hou; Dong Yang; Muyong Cao (Tencent); Tan Lee (The Chinese University of Hong Kong)*

🕒 16:00–18:00 **Whispering in Norwegian: Navigating Orthographic and Dialectic Challenges**

*Per E Kummervold; Javier de la Rosa; Freddy Wetjen; Rolv-Arild Braaten; Per Erik Solberg (National Library of Norway)*

🕒 16:00–18:00 **EFFUSE: Efficient Self-Supervised Feature Fusion for E2E ASR in Low Resource and Multilingual Scenarios**

*Tejes Srivastava (University of Chicago); Jiatong Shi; William Chen; Shinji Watanabe (Carnegie Mellon University)*

🕒 16:00–18:00 **Enhancing Neural Transducer for Multilingual ASR with Synchronized Language Diarization**

*Amir Hussein; Desh Raj; Matthew Wiesner (Johns Hopkins University); Daniel Povey (Xiaomi, Inc.); Paola Garcia; Sanjeev Khudanpur (Johns Hopkins University)*

🕒 16:00–18:00 **SC-MoE: Switch Conformer Mixture of Experts for Unified Streaming and Non-streaming Code-Switching ASR**

*Shuaishuai Ye; Shunfei Chen; Xinhui Hu; Xinkang Xu (HiThink RoyalFlush AI Research Institute)*

## A2-P2-B - Segmentals

📄 POSTER 📍 Poster Area 4B

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

🕒 16:00–18:00 **Crosslinguistic Comparison of Acoustic Variation in the Vowel Se-**

**quences /ia/ and /io/ in Four Romance Languages**

*Johanna Cronenberg; Ioana Chitoran (Université Paris Cité); Lori Lamel (CNRS LISN); Ioana Vasilescu (LIMSI)*

🕒 16:00–18:00 **Nasal Air Flow During Speech Production In Korebaju**

*Jenifer Vega Rodriguez (Gipsa-lab); Nathalie Vallée (GIPSA-lab CNRS / Université Grenoble Alpes / Grenoble-INP); Christophe Savariaux (GIPSA-lab); Silvain Gerber (CNRS)*

🕒 16:00–18:00 **Affricates in Lushootseed**

*Ted Kye (University of Washington)*

🕒 16:00–18:00 **Voiced and voiceless laterals in Angami**

*Viyazonuo Terhija (Indian Institute of Technology Guwahati); Priyankoo Sarmah (Indian Institute of Technology Guwahati)*

🕒 16:00–18:00 **Intrusive schwa within French stop-liquid clusters: An acoustic analysis**

*Minmin Yang (Laboratoire de Phonétique et Phonologie (CNRS & Sorbonne Nouvelle)); Rachid Ridouane (LPP (CNRS & Sorbonne Nouvelle))*

## A2-P2-A - Phonetics, Phonology and Prosody

📄 POSTER 📍 Poster Area 4A

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

🕒 16:00–18:00 **Speaker Detection by the Individual Listener and the Crowd: Parametric Models Applicable to Bonafide and Deepfake Speech**

*Tomi H. Kinnunen (University of Eastern Finland); Rosa Gonzalez Hautamäki (University of Oulu); Xin Wang; Junichi Yamagishi (National Institute of Informatics)*

🕒 16:00–18:00 **NumberLie: a game-based experiment to understand the acoustics of deception and truthfulness**

*Alessandro De Luca (University of Zurich); Andrew Clark (LiRI, University of Zurich); Volker Dellwo (University of Zurich)*

🕒 16:00–18:00 **Preservation, conservation and phonetic study of the voices of Italian poets: A study on the seven years of the VIP archive**

*Federico Lo Iacono (Università di Torino); Valentina Colonna (University of Granada); Antonio Romano (Università di Torino)*

🕒 16:00–18:00 **Do Speaker-dependent Vowel Characteristics depend on Speech Style?**

*Nicolas Audibert (Laboratoire de Phonétique et Phonologie); Cecile Fougeron (Laboratoire de Phonétique et Phonologie, CNRS & Sorbonne-Nouvelle); Christine Meunier (Aix Marseille University)*

🕒 16:00–18:00 **A comparison of voice similarity through acoustics, human perception and deep neural network (DNN) speaker verification systems**

*Suyuan Liu; Molly Babel; Jian Zhu (University of British Columbia)*

🕒 16:00–18:00 **Evaluating Italian Vowel Variation with the Recurrent Neural Network Phonet**

*Austin Jones (University of Georgia); Margaret E. L. Renwick (University of Georgia)*

🕒 16:00–18:00 **Prosodic marking of syntactic boundaries in Khoekhoe**

*Kira Tulchynska (Hebrew University of Jerusalem); Sylvanus Job (University of Namibia); Alena Witzlack-Makarevich (Hebrew University of Jerusalem); Margaret Zellers (Kiel University)*

**A11-P2-B - Spoken Dialogue Systems and Conversational Analysis**  
3

POSTER 📍 Poster Area 3B

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

🕒 16:00–18:00 **MM-NodeFormer: Node Transformer Multimodal Fusion for Emotion Recognition in Conversation**

*Zilong Huang; Man-Wai Mak; Kong Aik Lee (The Hong Kong Polytechnic University)*

🕒 16:00–18:00 **Emotional Cues Extraction and Fusion for Multi-modal Emotion Prediction and Recognition in Conversation**

*Haoxiang Shi; Ziqi Liang; Jun Yu (University of Science and Technology of China)*

🕒 16:00–18:00 **Participant-Pair-Wise Bottleneck Transformer for Engagement Estimation from Video Conversation**

*Keita Suzuki; Nobukatsu Hojo (Nippon Telegraph and Telephone Corporation); Kazutoshi Shinoda; Saki Mizuno; Ryo Masumura (NTT Corporation)*

🕒 16:00–18:00 **"Well", what can you do with messy data? Exploring the prosody and pragmatic function of the discourse marker "well" with found data and speech synthesis**

*Johannah O'Mahony; Catherine Lai (University of Edinburgh); Éva Székely (KTH Royal Institute of Technology)*

🕒 16:00–18:00 **Learning from Multiple Annotator Biased Labels in Multimodal Conversation**

*Kazutoshi Shinoda (NTT Corporation); Nobukatsu Hojo (Nippon Telegraph and Telephone Corporation); Saki Mizuno (NTT Corporation); Keita Suzuki (Nippon Telegraph and Telephone Corporation); Satoshi Kobashikawa (NTT); Ryo Masumura (NTT Corporation)*

🕒 16:00–18:00 **Non-Linear Inference Time Intervention: Improving LLM Truthfulness**

*Jakub Hoscilowicz (Samsung R&D); Adam Wiacek; Jan Chojnacki; Adam Cieslak; Leszek Michon (Samsung Research Poland); Artur Janicki (Warsaw University of Technology)*

🕒 16:00–18:00 **Evaluating Speech Recognition Performance Towards Large Language Model Based Voice Assistants**

*Zhe Liu; Suyoun Kim; Ozlem Kalinli (Meta)*

## A11-P2-A - Question Answering from Speech and Spoken Dialogue Systems

POSTER 📍 Poster Area 3A

📅 Wednesday 04 September 2024 ⌚  
16:00–18:00 **Session chairs :**

⌚ 16:00–18:00 **TM-PATHVQA: 90000+ Text-less Multilingual Questions for Medical Visual Question Answering**

*Tonmoy Rajkhowa (Indian Institute of Technology, Dharwad); Amartya Roy Chowdhury; Sankalp Nagaonkar (IIT Dharwad); Achyut Mani Tripathi (Indian Institute of Technology Dharwad, Karnataka); S.R. Mahadeva Prasanna (IIT Dharwad)*

⌚ 16:00–18:00 **Towards Multilingual Audio-Visual Question Answering**

*Orchid Chetia Phukan (IIIT Delhi); Priyabrata Mallick; Swarup Ranjan Behera; Aalekhya Satya Narayani (Reliance Jio AICoE); Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)*

⌚ 16:00–18:00 **Reinforcement Learning from Answer Reranking Feedback for Retrieval-Augmented Answer Generation**

*Minh Nguyen (University of Oregon); Toan Quoc Nguyen (Zoom Video Communications); Kishan KC (Amazon); Zeyu Zhang (University of Arizona); Thuy Vu (Amazon)*

⌚ 16:00–18:00 **Instruction Data Generation and Unsupervised Adaptation for Speech Language Models**

*Vahid Noroozi; Zhehuai Chen; Somshubra Majumdar; He Huang; Jagadeesh Balam; Boris Ginsburg (NVIDIA)*

⌚ 16:00–18:00 **On the Use of Plausible Arguments in Explainable Conversational AI**

*Martina Di Bratto; Maria Di Maro; Antonio Origlia (University of Naples Federico II)*

⌚ 16:00–18:00 **Rapport-Driven Virtual Agent: Rapport Building Dialogue Strategy for Improving User Experience at First Meeting**

*Muhammad Yeza Baihaqi (Nara Institute of Science and Technology); Angel Garcia Contreras; Seiya Kawano; Koichiro Yoshino (RIKEN)*

⌚ 16:00–18:00 **Cross-Modal Denoising: A Novel Training Paradigm for Enhancing Speech-Image Retrieval**

*Lifeng Zhou; Yuke Li; Rui Deng; Yuting Yang; Haoqi Zhu (NetEase Yidun AI Lab)*

## A4-P4-B - Speaker Recognition 2

POSTER 📍 Poster Area 1B

📅 Wednesday 04 September 2024 ⌚  
16:00–18:00 **Session chairs : Themos Stafylakis**

⌚ 16:00–18:00 **On the Usefulness of Speaker Embeddings for Speaker Retrieval in the Wild: A Comparative Study of x-vector and ECAPA-TDNN Models**

*Erfan Loweimi (University of Cambridge); Mengjie Qian (Cambridge University); Kate Knill; Mark Gales (University of Cambridge)*

⌚ 16:00–18:00 **W-GVKT: Within-Global-View Knowledge Transfer for Speaker Verification**

*Zezhong Jin; Youzhi Tu; Man-Wai Mak (The Hong Kong Polytechnic University)*

⌚ 16:00–18:00 **CEC: A Noisy Label Detection Method for Speaker Recognition**

*Yao Shen; Yingying Gao; Yaqian Hao (China Mobile Research Institute); Chenguang Hu (chinamobile); Fulin Zhang; Junlan Feng; Shilei Zhang (China Mobile Research Institute)*

⌚ 16:00–18:00 **Disentangling Age and Identity with a Mutual Information Minimization for Cross-Age Speaker Verification**

*Fengrun Zhang (Kuaishou Technology Company); Wangjin Zhou (Kyoto University); Yiming Liu (Kuaishou Technology, Beijing, China); Wang Geng; Yahui Shan; Chen Zhang (Kuaishou Technology Company)*

⌚ 16:00–18:00 **Contrastive Learning and Inter-Speaker Distribution Alignment Based Unsupervised Domain Adaptation for Robust Speaker Verification**



Zuoliang Li; Wu Guo; Bin Gu; Shengyu Peng (University of Science and Technology of China); Jie Zhang (University of Science and Technology of China (USTC))

🕒 16:00–18:00 **Identifying Speakers in Dialogue Transcripts: A Text-based Approach Using Pretrained Language Models**

Minh Nguyen (University of Oregon); Franck Dernoncourt (MIT); Seunghyun Yoon; Hanieh Deilamsalehy; Hao Tan; Ryan Rossi; Quan Hung Tran; Trung Bui (Adobe Research); Thien Huu Nguyen (University of Oregon)

🕒 16:00–18:00 **Attention-augmented X-vectors for the Evaluation of Mimicked Speech Using Sparse Autoencoder-LSTM framework**

Bhasi K. C. (GOVERNMENT ENGINEERING COLLEGE BARTON HILL); Rajeev Rajan (Government Engineering College, Barton Hill, Trivandrum); Noumida A (College Of Engineering Trivandrum)

**A4-P4-A - Speaker Diarization 2**

📄 POSTER 📍 Poster Area 1A

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs : Sriram Ganapathy**

🕒 16:00–18:00 **Variable Segment Length and Domain-Adapted Feature Optimization for Speaker Diarization**

Chenyuan Zhang; Linkai Luo; Hong Peng (Department of Automation, Xiamen University); Wei Wen (Xiemen University)

🕒 16:00–18:00 **Efficient Speaker Embedding Extraction Using a Twofold Sliding Window Algorithm for Speaker Diarization**

Jeong-Hwan Choi; Ye-Rin Jeoung; Ilseok Kim; Joon-Hyuk Chang (Hanyang University)

🕒 16:00–18:00 **DiarizationLM: Speaker Diarization Post-Processing with Large Language Models**

Quan Wang; Yiling Huang; Guanlong Zhao; Evan Clark; Wei Xia; Hank Liao (Google)

🕒 16:00–18:00 **Joint vs Sequential Speaker-Role Detection and Automatic Speech Recognition for Air-traffic Control**

Alexander Blatt; Aravind Krishnan; Dietrich Klakow (Saarland University)

🕒 16:00–18:00 **On the calibration of power-set speaker diarization models**

Alexis Plaquet (IRIT); Hervé Bredin (CNRS)

🕒 16:00–18:00 **Specializing Self-Supervised Speech Representations for Speaker Segmentation**

Séverin Baroudi (LIS); Thomas Pellegrini (IRIT); Hervé Bredin (CNRS)

**SS6 - Spoken Language Models for Universal Speech Processing (Special Session)**

📄 POSTER 📍 Yanis Club

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs : Karen Livescu**

🕒 16:00–18:00 **On the Effectiveness of Acoustic BPE in Decoder-Only TTS**

Bohan Li (MoE Key Lab of Artificial Intelligence, AI Institute, X-LANCE Lab Department of Computer Science and Engineering, Shanghai Jiao Tong University); Feiyu Shen; Yiwei Guo (Shanghai Jiao Tong University); Shuai Wang (Shenzhen Research Institute of Big Data, Chinese University of Hong Kong (Shenzhen)); Xie Chen (Shanghai Jiaotong University); Kai Yu (Shanghai Jiao Tong University)

🕒 16:00–18:00 **Exploring In-Context Learning of Textless Speech Language Model for Speech Classification Tasks**

Kai-Wei Chang; Ming-Hao Hsu (National Taiwan University); Shan-Wen Li (FAIR); Hung-yi Lee (National Taiwan University)

🕒 16:00–18:00 **Understanding Sounds, Missing the Questions: The Challenge of Object Hallucination in Large Audio-Language Models**



*Chun-Yi Kuan; Wei-Ping Huang; Hung-yi Lee (National Taiwan University)*

🕒 16:00–18:00 **Can Large Language Models Understand Spatial Audio?**

*Changli Tang (Tsinghua University); Wenyi Yu (Tsinghua); Guangzhi Sun (University of Cambridge Department of Engineering); Xianzhao Chen; Tian Tan; Wei Li; Jun Zhang; Lu Lu; Zejun Ma (Bytedance); Yuxuan Wang (ByteDance AI Lab); Chao Zhang (Tsinghua University)*

🕒 16:00–18:00 **DiscreteSLU: A Large Language Model with Self-Supervised Discrete Speech Units for Spoken Language Understanding**

*Suwon Shon; Kwangyoun Kim; Yi-Te Hsu; Prashant Sridhar (ASAPP); Shinji Watanabe (Carnegie Mellon University); Karen Livescu (TTI-Chicago)*

🕒 16:00–18:00 **DeSTA: Enhancing Speech Language Models through Descriptive Speech-Text Alignment**

*Ke-Han Lu (National Taiwan University); Zhehuai Chen; Szu-Wei Fu; He Huang; Boris Ginsburg; Yu-Chiang Frank Wang (NVIDIA); Hung-yi Lee (National Taiwan University)*

🕒 16:00–18:00 **COSMIC: Data Efficient Instruction-tuning For Speech In-Context Learning**

*Jing Pan; Jian Wu (Microsoft); Yashesh Gaur (Microsoft.com); Sunit Sivasankaran; Zhuo Chen (Microsoft); Shujie Liu (Microsoft Research Asia); Jinyu Li (Microsoft)*

🕒 16:00–18:00 **NAST: Noise Aware Speech Tokenization for Speech Language Models**

*Shoval Messica (Hebrew University of Jerusalem (Huji)); Yossi Adi (The Hebrew University of Jerusalem)*

🕒 16:00–18:00 **Low Bitrate High-Quality RVQGAN-based Discrete Speech Tokenizer**

*Slava Shechtman (IBM Research); Avihu Dekel (IBM Research)*

**Gala - Banquet**

**SOCIAL EVENT** 📍 Hippocrates

📅 Wednesday 04 September 2024 🕒 19:30–00:00 **Session chairs :**

# Thursday 5 September 2024

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## Keynote 4 - Barbara Tillmann

**Perception of music and speech: Focus on rhythm processing**

📍 **Hippocrates**

📅 Thursday 05 September 2024 ⌚  
08:30–09:30

## A2-O5 - Experimental Phonetics and Laboratory Phonology

ORAL 📍 **Hippocrates**

📅 Thursday 05 September 2024 ⌚  
10:00–12:00 **Session chairs :**

⌚ 10:00–10:20 **Age-related Differences in Acoustic Cues for the Perception of Checked Syllables in Shengzhou Wu**

*Bingliang Zhao (Peking University); Jiangping Kong (Department of Chinese Language and Literature of Peking University); Xiyu Wu (Peking University)*

⌚ 10:20–10:40 **Quantity-sensitivity affects recall performance of word stress**

*Constantijn Kaland (Institute of Linguistics - University of Cologne); Maria Lialiou (Department of German Language and Literature I - University of Cologne)*

⌚ 10:40–11:00 **Phonological Symmetry Does Not Predict Generalization of Perceptual Adaptation to Vowels**

*Zuheyra Tokac (Northwestern University); Jennifer Cole (Northwestern University)*

⌚ 11:00–11:20 **Perceptual Learning in Lexical Tone: Phonetic Similarity vs. Phonological Categories**

*Ariëlle Reitsema; Chenxin Li; Leanne van Lambalgen; Laura Preining; Saskia Galindo Jong; Qing Yang; Xinyi Wen; Yiya Chen (Leiden University)*

⌚ 11:20–11:40 **Modeling probabilistic reduc-**

**tion across domains with Naive Discriminative Learning**

*Anna Stein (Heinrich Heine University); Kevin Tang (Heinrich Heine University)*

⌚ 11:40–12:00 **Do we EXPECT TO find phonetic traces for syntactic traces?**

*Jonathan Him Nok Lee; Mark Liberman (University of Pennsylvania); Martin Salzmann (University of Potsdam)*

## A6-O6 - Target Speaker Extraction

ORAL 📍 **Melampus**

📅 Thursday 05 September 2024 ⌚  
10:00–12:00 **Session chairs : Haizhou Li, Marc Delcroix**

⌚ 10:00–10:20 **Binaural Selective Attention Model for Target Speaker Extraction**

*Hanyu Meng; Qiquan Zhang; Xiangyu Zhang; Vidhyasaharan Sethu; Eliathamby Ambikairajah (The University of New South Wales)*

⌚ 10:20–10:40 **All Neural Low-latency Directional Speech Extraction**

*Ashutosh Pandey; Sanha Lee (META); Juan Azcarreta; Daniel Wong (Meta Platforms Inc.); Buye Xu (Meta Reality Labs Research)*

⌚ 10:40–11:00 **Centroid Estimation with Transformer-Based Speaker Embedder for Robust Target Speaker Extraction**

*Woon-Haeng Heo; Joongyu Maeng; Yoseb Kang; Namhyun Cho (NCSSOFT)*

⌚ 11:00–11:20 **Knowledge boosting during low-latency inference**

*Vidya Srinivas; Malek Itani; Tuochoao Chen (University of Washington); Emre Sefik Eskimez (Microsoft); Takuya Yoshioka (AssemblyAI Inc.); Shyamnath Gollakota (University of Washington)*

⌚ 11:20–11:40 **Unified Audio Visual Cues for Target Speaker Extraction**

*Tianci Wu (Inner Mongolia University); Shulin He (College of Computer Science, Inner Mongolia University); Jiahui Pan (Inner Mongolia University); Haifeng Huang; Zhijian Mo (Lenovo); Xueliang Zhang (Inner Mongolia University)*

🕒 11:40–12:00 **Target Speaker Extraction with Curriculum Learning**

*Yun Liu; Xuechen Liu (National Institute of Informatics); Xiaoxiao Miao (Singapore Institute of Technology); Junichi Yamagishi (National Institute of Informatics)*

**A4-O6 - Speaker recognition evaluation and resources**

ORAL 📍 IASO

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Craig S. Greenberg, Dayana Ribas**

🕒 10:00–10:20 **VoxBlink2: A 100K+ Speaker Recognition Corpus and the Open-Set Speaker-Identification Benchmark**

*Yuke Lin (Wuhan University); Ming Cheng (Duke Kunshan University); Fulin Zhang; Yingying Gao; Shilei Zhang (China Mobile Research Institute); Ming Li (Duke Kunshan University)*

🕒 10:20–10:40 **As Biased as You Measure: Methodological Pitfalls of Bias Evaluations in Speaker Verification Research**

*Wiebke Hutiri (Sony AI); Tanvina Patel (Multimedia computing, Delft University of Technology); Aaron Yi Ding (TU Delft); Odette Scharenborg (Multimedia Computing Group, Delft University of Technology)*

🕒 10:40–11:00 **WeSep: A Scalable and Flexible Toolkit Towards Generalizable Target Speaker Extraction**

*Shuai Wang (Shenzhen Research Institute of Big Data, Chinese University of Hong Kong (Shenzhen)); Ke Zhang (Northeastern University); Shaoxiong Lin (ShanghaiJiao-TongUniversity); Junjie Li (Tianjin University); Xuefei Wang (Shanghai Normal University); Meng Ge (National University of Singapore); Jianwei Yu (Tencent AI lab); Yanmin Qian (Shanghai Jiao Tong University); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)*

🕒 11:00–11:20 **ESPnet-SPK: full pipeline speaker embedding toolkit with reproducible recipes, self-supervised front-ends, and off-the-shelf models**

*Jee-weon Jung (Carnegie Mellon University); Wangyou Zhang (Shanghai Jiao Tong University); Jiatong Shi*

*(Carnegie Mellon University); Zakaria Aldeneh; Takuya Higuchi (Apple); Alex Gichamba (Carnegie Mellon University Africa); Barry-John Theobald; Ahmed Hussen Abdelaziz (Apple); Shinji Watanabe (Carnegie Mellon University)*

🕒 11:20–11:40 **Active Speaker Detection in Fisheye Meeting Scenes with Scene Spatial Spectrums**

*Xinghao Huang; Weiwei Jiang; Long Rao; Wei Xu (Huazhong University of Science and Technology); Wenqing Cheng (School of Electronic Information and Communications, Huazhong University of Science and Technology, Wuhan, China)*

🕒 11:40–12:00 **VSASV: a Vietnamese Dataset for Spoofing-Aware Speaker Verification**

*Vu Hoang; Viet Thanh Pham (Hanoi University of Science and Technology); Hoa Nguyen Xuan (HUST); Pham Nhi; Phuong Dat; Thi Thu Trang Nguyen (Hanoi University of Science and Technology)*

**A8-O7 - Streaming ASR**

ORAL 📍 Aegle B

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Rohit Prabhavalkar, Frank Seide**

🕒 10:00–10:20 **Learning from Back Chunks: Acquiring More Future Knowledge for Streaming ASR Models via Self Distillation**

*Yuting Yang; Guodong Ma; Yuke Li; Binbin Du; Haoqi Zhu; Liang Ruan (NetEase Yidun AI Lab)*

🕒 10:20–10:40 **Decoder-only Architecture for Streaming End-to-end Speech Recognition**

*Emiru Tsunoo; Hayato Futami (Sony Group Corporation); Yosuke Kashiwagi (Sony); Siddhant Arora; Shinji Watanabe (Carnegie Mellon University)*

🕒 10:40–11:00 **Streaming Decoder-Only Automatic Speech Recognition with Discrete Speech Units: A Pilot Study**

*Peikun Chen (Northwestern Polytechnical University); Sining Sun (Du Xiaoman); Changhao Shan; Qing Yang (Du Xiaoman Financial); Lei Xie (NWPU)*



🕒 11:00–11:20 **TfCleanformer: A streaming, array-agnostic, full- and sub-band modeling front-end for robust ASR**

*Jens Heitkaemper; Joe Caroselli (Google); Arun Narayanan (Google Inc.); Nathan Howard (Google LLC)*

🕒 11:20–11:40 **Improving Streaming Speech Recognition With Time-Shifted Contextual Attention And Dynamic Right Context Masking**

*Khanh Le (Zalo AI); Duc Chau (Ho Chi Minh University of Science)*

🕒 11:40–12:00 **Simul-Whisper: Attention-Guided Streaming Whisper with Truncation Detection**

*Haoyu Wang (Tsinghua University); Guoqiang Hu (Jinan University); Guodong Lin; Wei-Qiang Zhang (Tsinghua University); Jian Li (Beijing Sinovoice Technology)*

## A7-O7 - Privacy and Security in Speech Communication 2

ORAL 📍 Aegle A

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Junichi Yamagishi**

🕒 10:00–10:40 - Survey Talk

### Current Trends in Speaker Anonymization and Deepfake Detection

*Junichi Yamagishi (National Institute of Informatics); Xin Wang (National Institute of Informatics)*

🕒 10:40–11:00 **Anonymising Elderly and Pathological Speech: Voice Conversion Using DDSP and Query-by-Example**

*Suhita Ghosh (Otto von Guericke University); Melanie Jouaiti (University of Birmingham); Arnab Das (Deutsches Forschungszentrum für Künstliche Intelligenz); Yamini Sinha (OvGU Magdeburg); Tim Polzehl (German Research Center for Artificial Intelligence); Ingo Siegert (OvG University Magdeburg); Sebastian Stober (Otto von Guericke University)*

🕒 11:00–11:20 **Asynchronous Voice**

**Anonymization Using Adversarial Perturbation On Speaker Embedding**

*Rui Wang; Liping Chen (University of Science and Technology of China); Kong Aik Lee (The Hong Kong Polytechnic University); Zhen-Hua Ling (University of Science and Technology of China)*

🕒 11:20–11:40 **Probing the Feasibility of Multilingual Speaker Anonymization**

*Sarina Meyer; Florian Lux; Ngoc Thang Vu (University of Stuttgart)*

🕒 11:40–12:00 **DiffVC+: Improving Diffusion-based Voice Conversion for Speaker Anonymization**

*Fan Huang; Kun Zeng (Sun Yat-sen University); Wei Zhu (China Mobile Internet Co., Ltd.)*

## A5-O8 - Speech Type Classification

ORAL 📍 Panacea Amphitheater

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Sudarsana Reddy Kadiri, Rajeev Rajan**

🕒 10:00–10:20 **E-ODN: An Emotion Open Deep Network for Generalised and Adaptive Speech Emotion Recognition**

*Liuxian Ma; Lin Shen; Ruobing Li; Haojie Zhang; Kun Qian; Bin Hu (Beijing Institute of Technology); Björn W. Schuller (Imperial College London); Yoshiharu Yamamoto (The University of Tokyo)*

🕒 10:20–10:40 **Enhancing Multilingual Voice Toxicity Detection with Speech-Text Alignment**

*Joseph Liu; Mahesh Kumar Nandwana; Janne Pytkkönen; Hannes Heikinheimo; Morgan McGuire (Roblox)*

🕒 10:40–11:00 **AraOffence: Detecting Offensive Speech Across Dialects in Arabic Media**

*Youssef Nafea (Mohamed bin Zayed University of Artificial Intelligence); Shady Shehata (Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)); Zeerak Talat (Mohamed Bin Zayed University of Artificial Intelligence); Ahmed Aboeitta (Mohamed bin Zayed University of Artificial Intelligence: MBZUAI); Ahmed Sharshar (Mohamed bin Zayed University of Artificial Intelligence); Preslav Nakov (MBZUAI)*

🕒 11:00–11:20 **CogniVoice: Multimodal and Multilingual Fusion Networks for Mild Cognitive Impairment Assessment from Spontaneous Speech**

Jiali Cheng (UMass Lowell); Mohamed Elgaar (University of Massachusetts Lowell); Nidhi Vakil (University of Massachusetts, Lowell); Hadi Amiri (UMass Lowell)

🕒 11:20–11:40 **Speech Topic Classification Based on Multi-Scale and Graph Attention Networks**

Fangjing Niu; Xiaozhe Qi; Xinya Chen (Xinjiang University); Liang He (Tsinghua University)

🕒 11:40–12:00 **Enhancing Speech and Music Discrimination Through the Integration of Static and Dynamic Features**

Liangwei Chen (School of Data Science, University of Science and Technology of China); Xiren Zhou (University of Science and Technology of China); Qiang Tu (Anhui Provincial Hospital); Huanhuan Chen (School of Computer Science and Technology, University of Science and Technology of China)

**A1-P2-B - Speaker Stance, Emotion and Language-External Factors**

POSTER 📍 Poster Area 1B

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Nigel Ward**

🕒 10:00–12:00 **Joint prediction of subjective listening effort and speech intelligibility based on end-to-end learning**

Dirk Eike Hoffner; Jana Roßbach; Bernd T. Meyer (Carl von Ossietzky Universität Oldenburg)

🕒 10:00–12:00 **Depression Enhances Internal Inconsistency between Spoken and Semantic Emotion: Evidence from the Analysis of Emotion Expression in Conversation**

Xinyi Wu (Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences. University of Chinese Academy of Sciences); Changqing Xu (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences); Nan Li (Shenzhen Insti-

tute of Advanced Technology, Chinese Academy of Sciences); Rongfeng Su; Lan Wang; Nan Yan (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)

🕒 10:00–12:00 **Listeners' F0 preferences in quiet and stationary noise**

Olympia Simantiraki (Institute of Applied and Computational Mathematics, FORTH); Martin Cooke (Ikerbasque)

🕒 10:00–12:00 **Effects of talker and playback rate of reverberation-induced speech on speech intelligibility of older adults**

Nao Hodoshima (Tokai University)

**A1-P2-A - L1/L2 Acquisition and Cross-Linguistic Factors**

POSTER 📍 Poster Area 1A

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

🕒 10:00–12:00 **Acquisition of high vowel devoicing in Japanese: A production experiment with three and four year olds**

Hyun Kyung Hwang (University of Tsukuba); Manami Hirayama (Seikei University)

🕒 10:00–12:00 **The Production of Contrastive Focus by 7 to 13-year-olds Learning Mandarin Chinese**

Zimeng Li (Nanjing University of Science and Technology); Zhongxuan Mao (Nanjing University of Science and Technology, Nanjing, China); Shengting Shen (Nanjing University of Science and Technology); Ivan Yuen (Macquarie University); Ping Tang (Nanjing University of Science and Technology)

🕒 10:00–12:00 **Cross-Linguistic Intelligibility of Non-Compositional Expressions in Spoken Context**

Iulia Zaitova; Irina Stenger; Wei Xue; Tania Avgustinova; Bernd Möbius; Dietrich Klakow (Saarland University)

🕒 10:00–12:00 **On the relationship between**

### speech production and vocabulary size in 3-5 year olds

Alexis DeMaere; Nicole van Rootselaar; Fangfang Li; Robbin Gibb; Claudia L. R. Gonzalez (University of Lethbridge)

### 10:00–12:00 Towards Classifying Mother Tongue from Infant Cries - Findings Substantiating Prenatal Learning Theory

Tim Polzehl (German Research Center for Artificial Intelligence); Tim Herzig (DFKI); Friedrich Wicke (TU Berlin); Kathleen Wermke (University Hospital Würzburg); Razieh Khamsehashari (TUB); Michiko Dahlem (University Hospital Würzburg); Sebastian Möller (TU Berlin)

### 10:00–12:00 Effect of Complex Boundary Tones on Tone Identification: An Experimental Study with Mandarin-speaking Preschool Children

Aijun Li (Institute of Linguistics, CASS); Jun Gao; Zhiwei Wang (Institute of Linguistics, Chinese Academy of Social Sciences)

### 10:00–12:00 Ethnolinguistic Identification of Vietnamese-German Heritage Speech

Thanh Lan Truong (University of Tuebingen); Andrea Weber (University of Tuebingen)

## A9-P3 - Computational Resource Constrained ASR

POSTER 📍 Poster Area 2A

📅 Thursday 05 September 2024 ⌚

10:00–12:00 **Session chairs : Peidong Wang, Marceley Zanon Boito**

### 10:00–12:00 Dynamic Data Pruning for Automatic Speech Recognition

Qiao Xiao (Eindhoven University of Technology); Pingchuan Ma; Adriana Fernandez-Lopez (Meta); Boqian Wu (University of Twente); Lu Yin (University of Aberdeen); Stavros Petridis (Meta); Mykola Pechenizkiy (TU Eindhoven); Maja Pantic (Meta); Decebal Constantin Mocanu (University of Luxembourg); Shiwei Liu (UT Austin)

### 10:00–12:00 Mitigating Overfitting in Structured Pruning of ASR Models with Gradient-Guided Parameter Regularization

Dong-Hyun Kim (Hanyang University); Joon-Hyuk Chang (Hanyang University)

### 10:00–12:00 SparseWAV: Fast and Accurate One-Shot Unstructured Pruning for Large Speech Foundation Models

Tianteng Gu; Bei Liu; Hang Shao; Yanmin Qian (Shanghai Jiao Tong University)

### 10:00–12:00 One-pass Multiple Conformer and Foundation Speech Systems Compression and Quantization Using An All-in-one Neural Model

Zhaoqing Li (The Chinese University of Hong Kong); Haoning Xu (CUHK); Tianzi Wang (The Chinese University of HongKong); Shoukang Hu (Nanyang Technological University); Zengrui Jin; Shujie Hu (The Chinese University of Hong Kong); Jiajun Deng (The Chinese University of HongKong); Mingyu Cui; Mengzhe Geng; Xunying Liu (The Chinese University of Hong Kong)

### 10:00–12:00 USM RNN-T model weights binarization

Oleg Rybakov; Dmitriy Serdyuk; Chengjian Zheng (Google)

### 10:00–12:00 DAISY: Data Adaptive Self-Supervised Early Exit for Speech Representation Models

Tzu-Quan Lin; Hung-yi Lee (National Taiwan University); Hao Tang (The University of Edinburgh)

### 10:00–12:00 RepTor: Re-parameterizable Temporal Convolution for Keyword Spotting via Differentiable Kernel Search

Eunik Park; Daehyun Ahn; Hyungjun Kim (SqueezeBits Inc.)

### 10:00–12:00 Global-Local Convolution with Spiking Neural Networks for Energy-efficient Keyword Spotting

Shuai Wang; Dehao Zhang; Kexin Shi; Yuchen Wang; Wenjie Wei (University of Electronic Science and Technology of China); Jibin Wu (The Hong Kong Polytechnic University); Malu Zhang (University of Electronic Science and Technology of China)

### 10:00–12:00 ED-sKWS: Early-Decision Spiking Neural Networks for Rapid, and Energy-Efficient Keyword Spotting



Zeyang Song; Qianhui Liu; Qu Yang; Yizhou Peng (National University of Singapore); Haizhou Li (The Chinese University of Hong Kong (Shenzhen))

🕒 10:00–12:00 **A Small and Fast BERT for Chinese Medical Punctuation Restoration**

Tongtao Ling; Yutao Lai; Lei Chen (Guangdong University of Technology); Shilei Huang (Shenzhen Raisound Technologies, Co., Ltd); Yi Liu (IMSL Shenzhen Key Lab, PKU-HKUST Shenzhen Hong Kong Institute)

**A12-P3-B - Neural Network Training for Speech Recognition**

POSTER 📍 Poster Area 3B

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Jan Honza Cernocky, Andros Tjandra**

🕒 10:00–12:00 **Dynamic Encoder Size Based on Data-Driven Layer-wise Pruning for Speech Recognition**

Jingjing Xu (Machine Learning and Human Language Technology Group, RWTH Aachen University); Wei Zhou (Meta); Zijian Yang (RWTH Aachen University); Eugen Beck (Apttek); Ralf Schlüter (RWTH Aachen University)

🕒 10:00–12:00 **Revisiting Convolution-free Transformer for Speech Recognition**

Zejiang Hou; Goeric Huybrechts; Anshu Bhatia (Amazon); Daniel Garcia-Romero (AWS AI); Kyu J. Han (Amazon Web Services (AWS)); Katrin Kirchhoff (Amazon)

🕒 10:00–12:00 **Optimizing Large-Scale Context Retrieval for End-to-End ASR**

Zhiqi Huang (University of Massachusetts Amherst); Diamentino Caseiro; Kandarp Joshi (Google Inc.); Christopher Li; Pat Rondon (Google); Zelin Wu (Google LLC); Petr Zadrzail (Google Inc.); Lillian Zhou (Google)

🕒 10:00–12:00 **Self-Supervised Speech Representations are More Phonetic than Semantic**

Kwanghee Choi (Carnegie Mellon University); Ankita Pasad (Toyota Technological Institute at Chicago); Tomohiko Nakamura; Satoru Fukayama (National Institute of Advanced Industrial Science and Technology (AIST)); Karen Livescu (TTI-Chicago); Shinji Watanabe (Carnegie Mellon University)

🕒 10:00–12:00 **Enhancing CTC-based speech recognition with diverse modeling units**

Shiyi Han; Mingbin Xu; Zhihong Lei; Zhen Huang; Xingyu Na (Apple)

🕒 10:00–12:00 **Guiding Frame-Level CTC Alignments Using Self-knowledge Distillation**

Eungbeom Kim (Seoul National University); Hantae Kim (Naver Cloud); Kyogu Lee (Seoul National University)

**A12-P3-A - Evaluation of Speech Technology Systems**

POSTER 📍 Poster Area 3A

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Prasanta Kumar Ghosh, Norihide Kitaoka**

🕒 10:00–12:00 **Quantification of stylistic differences in human- and ASR-produced transcripts of African American English**

Annika Heuser (University of Pennsylvania); Tyler Kendall (University of Oregon); Miguel del Rio (Rev); Quinn McNamara (Rev.com); Nishchal Bhandari; Corey Miller; Migüel Jetté (Rev)

🕒 10:00–12:00 **Beyond Levenshtein: Leveraging Multiple Algorithms for Robust Word Error Rate Computations And Granular Error Classifications**

Korbinian Kuhn; Verena Kersken; Gottfried Zimmermann (Stuttgart Media University)

🕒 10:00–12:00 **Comparing ASR Systems in the Context of Speech Disfluencies**

Maria Teleki; Xiangjue Dong; Soohwan Kim; James Caverlee (Texas A&M University)

🕒 10:00–12:00 **Deep Prosodic Features in Tandem with Perceptual Judgments of Word Reduction for Tone Recognition in Conversed Speech**

Xiang-Li Lu (Feng-Chia University); Yi-Fen Liu (IECS, Feng Chia University)



🕒 10:00–12:00 **SeMaScore: A new evaluation metric for automatic speech recognition tasks**

Zitha Sasindran (Indian Institute of Science); Harsha Yelchuri (Information Science Engineering RV College of Engineering Bengaluru, India); T. V. Prabhakar (Electronics Systems Engg)

🕒 10:00–12:00 **DualSpeech: Enhancing Speaker-Fidelity and Text-Intelligibility Through Dual Classifier-Free Guidance**

Jinhyeok Yang (Supertone, Inc.); Junhyeok Lee (Supertone Inc.); Hyeong-Seok Choi (Seoul National University); Seunghoon Ji (Supertone Inc.); Hyeongju Kim (Supertone, Inc.); Juheon Lee (Seoul National University)

**A7-P4-B - Speech Synthesis: Paradigms and Methods 3**

📄 POSTER 📍 Poster Area 4B

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

🕒 10:00–12:00 **SimpleSpeech: Towards Simple and Efficient Text-to-Speech with Scalar Latent Transformer Diffusion Models**

Dongchao Yang (The Chinese University of Hongkong); Dingdong Wang; Haohan Guo; Xueyuan Chen; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

🕒 10:00–12:00 **Sample-Efficient Diffusion for Text-To-Speech Synthesis**

Justin Lovelace (Cornell University); Soham Ray; Kwangyoung Kim (ASAPP); Kilian Q. Weinberger (Cornell University); Felix Wu (ASAPP)

🕒 10:00–12:00 **Exploring the Robustness of Text-to-Speech Synthesis Based on Diffusion Probabilistic Models to Heavily Noisy Transcriptions**

Jingyi Feng; Yusuke Yasuda; Tomoki Toda (Nagoya University)

🕒 10:00–12:00 **VoiceTailor: Lightweight Plug-In Adapter for Diffusion-Based Personalized Text-to-Speech**

Heeseung Kim (Seoul National University); Sang-gil Lee (NVIDIA); Jiheum Yeom; Che Hyun Lee (Seoul National University); Sungwon Kim (NVIDIA); Sungroh Yoon (Seoul National University)

🕒 10:00–12:00 **PitchFlow: adding pitch control to a Flow-matching based TTS model**

Taslima Sadekova; Mikhail Kudinov; Vadim Popov; Assel Yermekova; Artem Khrapov (Huawei Noah's Ark Lab)

🕒 10:00–12:00 **Generating Speakers by Prompting Listener Impressions for Pre-trained Multi-Speaker Text-to-Speech Systems**

Zhengyang Chen (Shanghai Jiao Tong University); Xuechen Liu; Erica Cooper; Junichi Yamagishi (National Institute of Informatics); Yanmin Qian (Shanghai Jiao Tong University)

🕒 10:00–12:00 **TacoLM: GaTed Attention Equipped Codec Language Model are Efficient Zero-Shot Text to Speech Synthesizers**

Yakun Song (Shanghai Jiao Tong University); Zhuo Chen (Microsoft); Xiaofei Wang (Microsoft Corp.); Ziyang Ma; Guanrou Yang (Shanghai Jiao Tong University); Xie Chen (Shanghai Jiaotong University)

**A7-P4-A - Speech Synthesis: Voice Conversion 3**

📄 POSTER 📍 Poster Area 4A

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

🕒 10:00–12:00 **SPA-SVC: Self-supervised Pitch Augmentation for Singing Voice Conversion**

Bingsong Bai; Fengping Wang; Yingming Gao; Ya Li (Beijing University of Posts and Telecommunications)

🕒 10:00–12:00 **Towards Naturalistic Voice Conversion: NaturalVoices Dataset with an Automatic Processing Pipeline**

Ali N. Salman (University of Texas at Dallas); Zongyang Du; Shreeram Suresh Chandra; İsmail Rasim Ülgen (The University of Texas at Dallas); Carlos Busso (University of Texas at Dallas); Berrak Sisman (The University of Texas at Dallas)

🕒 10:00–12:00 **PRVAE-VC2: Non-Parallel Voice Conversion by Distillation of Speech Representations**

*Kou Tanaka (NTT Corporation); Hirokazu Kameoka (NTT Communication Science Laboratories, NTT Corporation); Takuhiro Kaneko (NTT Corporation); Yuto Kondo (NTT)*

🕒 10:00–12:00 **HybridVC: Efficient Voice Style Conversion with Text and Audio Prompts**

*Xinlei Niu; Jing Zhang; Charles Patrick Martin (Australian National University)*

🕒 10:00–12:00 **DreamVoice: Text-Guided Voice Conversion**

*Jiarui Hai; Karan Thakkar; Helin Wang (Johns Hopkins University); Zengyi Qin (MIT); Mounya Elhilali (Johns Hopkins University)*

🕒 10:00–12:00 **Hear Your Face: Face-based voice conversion with F0 estimation**

*Jaejun Lee; Yoori Oh; Injune Hwang; Kyogu Lee (Seoul National University)*

🕒 10:00–12:00 **Accent Conversion with Articulatory Representations**

*Yashish M. Siriwardena (University of Maryland College Park); Nathan Swedlow; Audrey Howard; Evan Gitterman; Dan Darcy (Dolby Laboratories); Carol Espy-Wilson (University of Maryland); Andrea Fanelli (Dolby Laboratories)*

🕒 10:00–12:00 **USD-AC: Unsupervised Speech Disentanglement for Accent Conversion**

*Jen-Hung Huang (Department of Computer Science and Information Engineering, National Cheng Kung University); Wei-Tsung Lee; Chung-Hsien Wu (National Cheng Kung University)*

🕒 10:00–12:00 **Knowledge Distillation from Self-Supervised Representation Learning Model with Discrete Speech Units for Any-to-Any Streaming Voice Conversion**

*Hiroki Kanagawa (NTT Corporation); Yusuke Ijima (NTT Corporation)*

**SS4 - Leveraging Large Language Models and Contextual Features for Phonetic Analysis (Special Session)**

ORAL 📍 Acesso

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs : Tan Lee (tanlee@cuhk.edu.hk), Wei Xue**

🕒 10:00–10:40 - Blue Sky

**Human-like Linguistic Biases in Neural Speech Models: Phonetic Categorization and Phonotactic Constraints in Wav2Vec2.0**

*Marianne de Heer Kloots (University of Amsterdam); Willem Zuidema (ILLC, UvA)*

🕒 10:40–11:00 **Exploring Pre-trained Speech Model for Articulatory Feature Extraction in Dysarthric Speech Using ASR**

*Yuqin Lin; Longbiao Wang; Jianwu Dang (Tianjin University); Nobuaki Minematsu (The University of Tokyo)*

🕒 11:00–11:20 **Exploring Self-Supervised Speech Representations for Cross-lingual Acoustic-to-Articulatory Inversion**

*Yun Hao; Reihaneh Amooie; Wietse de Vries; Thomas Tienkamp; Rik van Noord; Martijn Wieling (University of Groningen)*

🕒 11:20–11:40 **Are Articulatory Feature Overlaps Shrouded in Speech Embeddings?**

*Erfan A. Shams; Iona Gessinger (University College Dublin); Patrick Cormac English (UCD); Julie Carson-Berndsen (University College Dublin)*

🕒 11:40–12:00 **Searching for Structure: Appraising the Organisation of Speech Features in wav2vec 2.0 Embeddings**

*Patrick Cormac English (UCD); John D. Kelleher (TCD); Julie Carson-Berndsen (University College Dublin)*

## SS7 - Responsible Speech Foundation Models (Special Session)

POSTER

📍 Yanis Club

📅 Thursday 05 September 2024 ⌚  
10:00–12:00 Session chairs :

⌚ 10:00–12:00 **Speech foundation models in healthcare: Effect of layer selection on pathological speech feature prediction**

*Daniela A. Wiepert; Rene L. Utianski; Joseph R. Duffy; John L. Stricker; Leland R. Barnard; David T. Jones; Hugo Botha (Mayo Clinic)*

⌚ 10:00–12:00 **Outlier Reduction with Gated Attention for Improved Post-training Quantization in Large Sequence-to-sequence Speech Foundation Models**

*Dominik Wagner (Technische Hochschule Nuernberg Georg Simon Ohm); Ilja Baumann; Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm); Tobias Bocklet (TH Nürnberg)*

⌚ 10:00–12:00 **Unveiling Biases while Embracing Sustainability: Assessing the Dual Challenges of Automatic Speech Recognition Systems**

*Ajinkya Kulkarni (ValidSoft MBZUAI); Atharva Kulkarni (Erisha); Miguel Couceiro (LORIA); Isabel Trancoso (IN-ESC ID)*

⌚ 10:00–12:00 **Emo-bias: A Large Scale Evaluation of Social Bias on Speech Emotion Recognition**

*Yi-Cheng Lin; Haibin Wu (National Taiwan University); Huang-Cheng Chou (Department of Electrical Engineering at National Tsing Hua University (NTHU)); Chi-Chun Lee (National Tsing Hua University); Hung-yi Lee (National Taiwan University)*

⌚ 10:00–12:00 **On the social bias of speech self-supervised models**

*Yi-Cheng Lin; Tzu-Quan Lin; Hsi-Che Lin; Andy T. Liu; Hung-yi Lee (National Taiwan University)*

⌚ 10:00–12:00 **Self-supervised Speech Representations Still Struggle with African American Vernacular English**

*Kalvin Chang; Yi-Hui Chou; Jiatong Shi; Hsuan-Ming Chen (Carnegie Mellon University); Nicole Holli-day (Pomona College); Odette Scharenborg (Multimedia Computing Group, Delft University of Technology); David R. Mortensen (Language Technologies Institute, Carnegie Mellon University)*

⌚ 10:00–12:00 **Can you Remove the Downstream Model for Speaker Recognition with Self-Supervised Speech Features?**

*Zakaria Aldeneh; Takuya Higuchi (Apple); Jee-weon Jung (Carnegie Mellon University); Skyler Seto; Tatiana Likhomanenko; Stephen Shum; Ahmed Hussen Abdelaziz (Apple); Shinji Watanabe (Carnegie Mellon University); Barry-John Theobald (Apple)*

⌚ 10:00–12:00 **Empowering Whisper as a Joint Multi-Talker and Target-Talker Speech Recognition System**

*Lingwei Meng; Jiawen Kang; Yuejiao Wang; Zengrui Jin; Xixin Wu; Xunying Liu; Helen Meng (The Chinese University of Hong Kong)*

## A12-O3 - Spoken Term Detection and Speech Retrieval

ORAL

📍 Acesso

📅 Thursday 05 September 2024 ⌚  
13:30–15:30 Session chairs :

⌚ 13:30–13:50 **Few-Shot Keyword Spotting from Mixed Speech**

*Junming Yuan (Xinjiang University); Ying Shi (Harbin Institute of Technology); Lantian Li (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University); Askar Hamdulla (Xinjiang University)*

⌚ 13:50–14:10 **Pretraining End-to-End Keyword Search with Automatically Discovered Acoustic Units**

*Bolaji Yusuf (Bogazici University); Jan Honza Cernocky (Brno University of Technology); Murat Saraçlar (Bogazici University)*

⌚ 14:10–14:30 **2DP-2MRC: 2-Dimensional Pointer-based Machine Reading Comprehension Method for Multimodal Moment Retrieval**



*Jiajun He (Nagoya University); Tomoki Toda (Nagoya University)*

**14:30–14:50 GPA: Global and Prototype Alignment for Audio-Text Retrieval**

*Yuxin Xie; Zhihong Zhu; Xianwei Zhuang; Liming Liang; Zhichang Wang; Yuexian Zou (Peking University)*

**14:50–15:10 Few-Shot Keyword-Incremental Learning with Total Calibration**

*Ilseok Kim; Ju-Seok Seong; Joon-Hyuk Chang (Hanyang University)*

**15:10–15:30 Leveraging Speech Data Diversity to Document Indigenous Heritage and Culture**

*Allahsera Tapo (Rochester Institute of Technology); Éric Le Ferrand (Boston College); Zoey Liu (University of Florida); Christopher Homan (Rochester Institute of Technology); Emily Prud'hommeaux (Boston College)*

**A13-O4 - Speech Disorders 1**

**ORAL** **Hippocrates**

**Thursday 05 September 2024**  
**13:30–15:30 Session chairs : Juan Rafael Orozco-Arroyave**

**13:30–13:50 Missingness-resilient Video-enhanced Multimodal Disfluency Detection**

*Payal Mohapatra; Shamika Likhite (Northwestern University); Subrata Biswas; Bashima Islam (Worcester Polytechnic Institute); Qi Zhu (Northwestern University)*

**13:50–14:10 AS-70: A Mandarin stuttered speech dataset for automatic speech recognition and stuttering event detection**

*Rong Gong (StammerTalk); Hongfei Xue (NWPU); Lezhi Wang (StammerTalk); Xin Xu (AISHELL); Qisheng Li (Almpower.org); Lei Xie (NWPU); Hui Bu (AISHELL); Shaomei Wu (Almpower.org); Jiaming Zhou; Yong Qin (Nankai University); Binbin Zhang (WeNet Open Source Community); Jun Du (University of Science and Technology of China); Jia Bin (Michigan State University); Ming Li (Duke Kunshan University)*

**14:10–14:30 Analyzing Speech Motor Movement using Surface Electromyography**

**in Minimally Verbal Adults with Autism Spectrum Disorder**

*Wazeer Zulfikar (Massachusetts Institute of Technology (MIT)); Nishat Prottyasha (Massachusetts Institute of Technology); Camila Canales; Heli Patel (Massachusetts General Hospital); James Williamson (MIT Lincoln Laboratory); Laura Sarnie; Lisa Nowinski (Massachusetts General Hospital); Nataliya Kosmyrna (MIT); Paige Townsend (Massachusetts General Hospital); Sophia Yuditskaya; Tanya Talkar (MIT Lincoln Laboratory); Utkarsh Oggy Sarawgi (Massachusetts Institute of Technology (MIT)); Christopher McDougale (Massachusetts General Hospital); Thomas Quatieri (Massachusetts Institute of Technology Lincoln Laboratory); Pattie Maes (MIT Media Lab); Maria Mody (Massachusetts General Hospital)*

**14:30–14:50 Prosody of speech production in latent post-stroke aphasia**

*Cong Zhang (Newcastle University); Tong Li (Tianjin University); Gayle DeDe (Temple University); Christos Salis (Newcastle University)*

**14:50–15:10 MMSD-Net: Towards Multimodal Stuttering Detection**

*Liangyu Nie (UT Dallas); Sudarsana Reddy Kadiri (University of Southern California); Ruchit Agrawal (University of Oxford)*

**15:10–15:30 Large Language Models for Dysfluency Detection in Stuttered Speech**

*Dominik Wagner (Technische Hochschule Nuernberg Georg Simon Ohm); Sebastian P. Bayerl (University of Applied Sciences Rosenheim); Ilja Baumann (Technische Hochschule Nürnberg Georg Simon Ohm); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nuremberg); Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm); Tobias Bocklet (TH Nürnberg)*

**A6-O7 - Deep Learning-Based Speech Enhancement: Approaches, Scalability, and Evaluation**

**ORAL** **Melambus**

**Thursday 05 September 2024**  
**13:30–15:30 Session chairs : Shoko Araki, Shinji Watanbe**



🕒 13:30–14:10 - Survey Talk

**Deep learning based speech enhancement**

*Timo Gerkmann (Universität Hamburg)*

🕒 14:10–14:30 **VoiCor: A Residual Iterative Voice Correction Framework for Monaural Speech Enhancement**

*Rui Cao; Tianrui Wang (Tianjin University); Meng Ge (National University of Singapore); Andong Li (Tencent AI Lab); Longbiao Wang; Jianwu Dang (Tianjin University); Yungang Jia (Tianjin Branch of National Computer Network Emergency Response Technical Team/Coordination Center of China)*

🕒 14:30–14:50 **Personalized Speech Enhancement Without a Separate Speaker Embedding Model**

*Tanel Pärnamaa (Microsoft); Ando Saabas (Microsoft)*

🕒 14:50–15:10 **URGENT Challenge: Universality, Robustness, and Generalizability For Speech Enhancement**

*Wangyou Zhang (Shanghai Jiao Tong University); Robin Scheibler (LINE Corporation); Kohei Saijo (Waseda University); Samuele Cornell (Carnegie Mellon University); Chenda Li (Shanghai Jiao Tong University); Zhaoheng Ni (Meta AI); Jan Pirklbauer; Marvin Sach (Technische Universität Braunschweig); Shinji Watanabe (Carnegie Mellon University); Tim Fingscheidt (Technische Universität Braunschweig); Yanmin Qian (Shanghai Jiao Tong University)*

🕒 15:10–15:30 **EARS: An Anechoic Fullband Speech Dataset Benchmarked for Speech Enhancement and Dereverberation**

*Julius Richter (Universität Hamburg); Yi-Chiao Wu; Steven Krenn (Meta); Simon Welker; Bunlong Lay (Universität Hamburg); Shinji Watanabe (Carnegie Mellon University); Alexander Richard (Facebook Reality Labs); Timo Gerkmann (Universität Hamburg)*

**A4-O7 - Self and Weakly-Labelled Speaker Verification**

ORAL 📍 issimo

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs** : Oldřich Píchot, Liping Chen

🕒 13:30–14:10 - Survey Talk

**Self-supervised based speaker recognition**

*Themis Stafylakis (Omilia - Conversational Intelligence)*

🕒 14:10–14:30 **Self-Supervised Speaker Verification with Mini-Batch Prediction Correction**

*Junxu Wang; Zhihua Fang (Xinjiang University); Liang He (Tsinghua University)*

🕒 14:30–14:50 **SCDNet: Self-supervised Learning Feature based Speaker Change Detection**

*Yue Li (Northwestern Polytechnical University, China); Xinsheng Wang; Li Zhang (Northwestern Polytechnical University); Lei Xie (NWPU)*

🕒 14:50–15:10 **Self-Supervised Learning with Multi-Head Multi-Mode Knowledge Distillation for Speaker Verification**

*Zezhong Jin; Youzhi Tu; Man-Wai Mak (The Hong Kong Polytechnic University)*

🕒 15:10–15:30 **Getting More for Less: Using Weak Labels and AV-Mixup for Robust Audio-Visual Speaker Verification**

*Anith Selvakumar (LG Electronics); Homa Fashandi (LG Electronics)*

**A8-O8 - Self-Supervised Learning for ASR**

ORAL 📍 Aegle B

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs** : Tanel Alumäe, Hungyi Lee

🕒 13:30–14:10 - Survey Talk

**Multilingual Speech Representations**

*Bhuvana Ramabhadran (Google)*

🕒 14:10–14:30 **What happens in continued pre-training? Analysis of self-supervised**

### speech models with continued pre-training for colloquial Finnish ASR

Yaroslav Getman; Tamas Grosz; Mikko Kurimo (Aalto University)

🕒 14:30–14:50 **Self-Supervised Learning for ASR Pre-Training with Uniquely Determined Target Labels and Controlling Cepstrum Truncation for Speech Augmentation**

Akihiro Kato; Hiroyuki Nagano; Kohei Chike; Masaki Nose (RICOH)

🕒 14:50–15:10 **MS-HuBERT: Mitigating Pre-training and Inference Mismatch in Masked Language Modelling methods for learning Speech Representations**

Hemant Yadav (IIIT Delhi); Sunayana Sitaram (Microsoft Research); Rajiv Ratn Shah (IIIT Delhi)

🕒 15:10–15:30 **Balanced-Wav2Vec: Enhancing Stability and Robustness of Representation Learning Through Sample Reweighting Techniques**

Mun-Hak Lee; Jae-Hong Lee; DoHee Kim; Ye-Eun Ko; Joon-Hyuk Chang (Hanyang University)

## A7-O8 - Speech synthesis: Cross-lingual and multilingual aspects

ORAL 📍 Aegle A

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Gérard Bailly, Erica Cooper**

🕒 13:30–13:50 **Meta Learning Text-to-Speech Synthesis in over 7000 Languages**

Florian Lux; Sarina Meyer (University of Stuttgart); Lyonel Behringer; Frank Zalkow (Fraunhofer IIS); Phat Do; Matt Coler (University of Groningen); Emanuël A. P. Habets (AudioLabs Erlangen); Ngoc Thang Vu (University of Stuttgart)

🕒 13:50–14:10 **An Initial Investigation of Language Adaptation for TTS Systems under Low-resource Scenarios**

Cheng Gong (Tianjin University); Erica Cooper; Xin Wang (National Institute of Informatics); Chunyu Qiang (Tianjin

University); Mengzhe Geng (National Research Council Canada); Dan Wells (University of Edinburgh); Longbiao Wang; Jianwu Dang (Tianjin University); Marc Tessier; Aidan Pine (National Research Council Canada); Korin Richmond (University of Edinburgh); Junichi Yamagishi (National Institute of Informatics)

🕒 14:10–14:30 **Improving Multilingual Text-to-Speech with Mixture-of-Language-Experts and Accent Disentanglement**

Jing Wu (Fudan University); Ting Chen; Minchuan Chen; Wei Hu (Ping An Technology); Shaojun Wang (PAI Inc.); Jing Xiao (Ping An Insurance (Group) Company of China)

🕒 14:30–14:50 **Seamless Language Expansion: Enhancing Multilingual Mastery in Self-Supervised Models**

Jing Xu; Minglin Wu; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

🕒 14:50–15:10 **XTTS: a Massively Multilingual Zero-Shot Text-to-Speech Model**

Edresson Casanova (Nvidia); Kelly Davis (Coqui); Eren Gölge (Coqui.ai); Görkem Gökmar; Lulian Gulea (Coqui); Logan Hart (Cantina.ai); Aya Aljafari (Nvidia); Joshua Meyer (Rabbit); Reuben Morais (Voize); Samuel Olayemi (Coqui); Julian Weber (Cantina.ai)

🕒 15:10–15:30 **X-E-Speech: Joint Training Framework of Non-Autoregressive Cross-lingual Emotional Text-to-Speech and Voice Conversion**

Houjian Guo (Osaka University, Riken Guardian Robot Group); Chaoran Liu; Carlos Toshinori Ishi (RIKEN); Hiroshi Ishiguro (Osaka University)

## A5-O9 - Fake Audio Detection

ORAL 📍 Panacea Amphitheater

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Wenwu Wang, Bjorn W. Schuller**

🕒 13:30–13:50 **Towards generalisable and calibrated audio deepfake detection with self-supervised representations**

Octavian Pascu (University POLITEHNICA of Bucharest); Adriana Stan (Technical University of Cluj-Napoca); Dan

Oneata (Politehnica University of Bucharest); Elisabeta Oneata (Bitdefender); Horia Cucu (University Politehnica of Bucharest)

🕒 13:50–14:10 **Generalized Source Tracing: Detecting Novel Audio Deepfake Algorithm with Real Emphasis and Fake Dispersion Strategy**

Yuankun Xie (Communication University of China); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Zhengqi Wen (CASIA); Zhiyong Wang (University of Chinese Academy of Sciences); Xiaopeng Wang (UCAS); Haonnan Cheng; Long Ye (Communication University of China); Jianhua Tao (Tsinghua University)

🕒 14:10–14:30 **Enhancing Partially Spoofed Audio Localization with Boundary-aware Attention Mechanism**

Jiafeng Zhong; Bin Li (Shenzhen University); Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences)

🕒 14:30–14:50 **Singing Voice Graph Modeling for SingFake Detection**

Xuanjun Chen; Haibin Wu; Jyh-Shing Roger Jang; Hung-yi Lee (National Taiwan University)

🕒 14:50–15:10 **Genuine-Focused Learning using Mask AutoEncoder for Generalized Fake Audio Detection**

Xiaopeng Wang (UCAS); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Zhengqi Wen (CASIA); Zhiyong Wang (University of Chinese Academy of Sciences); Yuankun Xie (Communication University of China); Yukun Liu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Jianhua Tao (Tsinghua University); Xuefei Liu (Qiyuan Lab); Yongwei Li (Chinese Academy of Sciences); Xin Qi (University of Chinese Academy of Sciences); Yi Lu (State Key Laboratory of Multimodal Artificial Intelligence Systems, Institute of Automation, Chinese Academy of Sciences); Shuchen Shi (Shanghai Polytechnic University)

🕒 15:10–15:30 **One-class learning with adaptive centroid shift for audio deepfake detection**

Hyun Myung Kim; Kangwook Jang; Hoirin Kim (KAIST)

## A3-P3-B - Automatic Emotion Recognition

POSTER 📍 Poster Area 1B

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Shahin Amiriparian**

🕒 13:30–15:30 **A Layer-Anchoring Strategy for Enhancing Cross-Lingual Speech Emotion Recognition**

Shreya G. Upadhyay (National Tsing Hua University); Carlos Busso (University of Texas at Dallas); Chi-Chun Lee (National Tsing Hua University)

🕒 13:30–15:30 **Are Paralinguistic Representations all that is needed for Speech Emotion Recognition?**

Orchid Chetia Phukan (IIIT Delhi); Gautam Siddharth Kashyap (Jamia Hamdard); Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)

🕒 13:30–15:30 **MFSN: Multi-perspective Fusion Search Network For Pre-training Knowledge in Speech Emotion Recognition**

Haiyang Sun (Institute of Automation, Chinese Academy of Sciences); Fulin Zhang; Yingying Gao; Shilei Zhang (China Mobile Research Institute); Zheng Lian (Institute of Automation, Chinese Academy of Sciences); Junlan Feng (China Mobile Research)

🕒 13:30–15:30 **Exploring Self-Supervised Multi-view Contrastive Learning for Speech Emotion Recognition with Limited Annotations**

Bulat Khaertdinov; Pedro Jeruis; Annanda Sousa; Enrique Hortal (Maastricht University)

## A3-P3-A - Multimodal Paralinguistics

POSTER 📍 Poster Area 1A

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Anton Batliner**



🕒 13:30–15:30 **LoRA-MER: Low-Rank Adaptation of Pre-Trained Speech Models for Multimodal Emotion Recognition Using Mutual Information**

Yunrui Cai; Zhiyong Wu; Jia Jia (Tsinghua University); Helen Meng (The Chinese University of Hong Kong)

🕒 13:30–15:30 **Enhancing Modal Fusion by Alignment and Label Matching for Multimodal Emotion Recognition**

Qifei Li; Yingming Gao; Yuhua Wen; Cong Wang; Ya Li (Beijing University of Posts and Telecommunications)

🕒 13:30–15:30 **Prompt Link Multimodal Fusion in Multimodal Sentiment Analysis**

Kang Zhu (Anhui University); Cunhang Fan (Anhui Provincial Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University); Jianhua Tao (Tsinghua University); Zhao Lv (Anhui university)

🕒 13:30–15:30 **A multimodal analysis of different types of laughter expression in conversational dialogues**

Kexin Wang (Kobe University, ATR); Carlos Ishi (Advanced Telecommunications Research Institute International); Ryoko Hayashi (Kobe University)

🕒 13:30–15:30 **Tackling Missing Modalities in Audio-Visual Representation Learning Using Masked Autoencoders**

Georgios Chochlakis (University of Southern California); Chandrashekar Lavania (AWS AI Labs); Prashant Mathur (Amazon); Kyu J. Han (Amazon Web Services (AWS))

🕒 13:30–15:30 **Enhancing Multimodal Emotion Recognition through ASR Error Compensation and LLM Fine-Tuning**

Jehyun Kyung; Serin Heo; Joon-Hyuk Chang (Hanyang University)

🕒 13:30–15:30 **Bridging Emotions Across Languages: Low Rank Adaptation for Multilingual Speech Emotion Recognition**

Lucas Goncalves (The University of Texas at Dallas); Donita Robinson; Elizabeth Richerson (Laboratory for Analytic Sciences, North Carolina State University); Carlos Busso (University of Texas at Dallas)

**A5-P4-B - Speech and Audio Modelling**

POSTER

📍 Poster Area 2B

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Torbjørn Svendsen, Zhen Huang**

🕒 13:30–15:30 **DiveSound: LLM-Assisted Automatic Taxonomy Construction for Diverse Audio Generation**

Baihan Li; Zeyu Xie; Xuenan Xu; Yiwei Guo (Shanghai Jiao Tong University); Ming Yan (Alibaba Group); Ji Zhang (Alibaba Inc.); Kai Yu; Mengyue Wu (Shanghai Jiao Tong University)

🕒 13:30–15:30 **Leveraging Language Model Capabilities for Sound Event Detection**

Hualei Wang; Jianguo Mao; Zhifang Guo (Institute of Computing Technology, Chinese Academy of Sciences); Jiarui Wan (Beijing Jiaotong University); Hong Liu; Xiangdong Wang (Institute of Computing Technology, Chinese Academy of Sciences)

🕒 13:30–15:30 **Enhancing Zero-shot Audio Classification using Sound Attribute Knowledge from Large Language Models**

Xuenan Xu; Pingyue Zhang (Shanghai Jiao Tong University); Ming Yan (Alibaba Group); Ji Zhang (Alibaba Inc.); Mengyue Wu (Shanghai Jiao Tong University)

🕒 13:30–15:30 **LAFMA: A Latent Flow Matching Model for Text-to-Audio Generation**

Wenhao Guan; Kaidi Wang (Xiamen University); Wangjin Zhou (Kyoto University); Yang Wang (Kuaishou Technology); Feng Deng (Kuaishou); Hui Wang (Nankai University); Lin Li; Qingyang Hong (Xiamen University); Yong Qin (Nankai University)

🕒 13:30–15:30 **DNSMOS Pro: A Reduced-Size DNN for Probabilistic MOS of Speech**

Fredrik Cumlin; Xinyu Liang (Codemill AB); Victor Ungureanu; Chandan K. A. Reddy; Christian Schüldt (Google); Saikat Chatterjee (KTH Royal Institute of Technology)

🕒 13:30–15:30 **Blind Zero-Shot Audio Restoration: A Variational Autoencoder Approach for Denoising and inpainting**



Veranika Boukun; Jakob Drefs (Carl von Ossietzky Universität Oldenburg); Jörg Lücke (Universität Oldenburg)

## A5-P4-A - Acoustic Event Detection, Segmentation and Classification

POSTER 📍 Poster Area 2A

📅 Thursday 05 September 2024 ⌚  
13:30–15:30 **Session chairs : Janek Ebberts, Daisuke Niizumi**

⌚ 13:30–15:30 **FastAST: Accelerating Audio Spectrogram Transformer via Token Merging and Cross-Model Knowledge Distillation**

Swarup Ranjan Behera; Abhishek Dhiman; Karthik Gowda; Aalekhya Satya Narayani (Reliance Jio AICoE)

⌚ 13:30–15:30 **LungAdapter: Efficient Adapting Audio Spectrogram Transformer for Lung Sound Classification**

Li Xiao (School of Computer Science, Wuhan University); Lucheng Fang; Yuhong Yang; Weiping Tu (Wuhan University)

⌚ 13:30–15:30 **ElasticAST: An Audio Spectrogram Transformer for All Length and Resolutions**

Jiu Feng (Korea Advanced Institute of Science and Technology); Mehmet Hamza Erol; Joon Son Chung; Arda Senocak (KAIST)

⌚ 13:30–15:30 **Robust Laughter Segmentation with Automatic Diverse Data Synthesis**

Taisei Omine; Kenta Akita; Reiji Tsuruno (Kyushu University)

⌚ 13:30–15:30 **Explainable by-design Audio Segmentation through Non-Negative Matrix Factorization and Probing**

Martin Lebourdais (IRIT/CNRS); Théo Mariotte (LTCI, Télécom Paris, Institut Polytechnique de Paris); Antonio Almodévar (University of Zaragoza); Marie Tahon (LIUM); Alfonso Ortega (University of Zaragoza)

⌚ 13:30–15:30 **Predicting Heart Activity from**

## Speech using Data-driven and Knowledge-based features

Gasser Elbanna (Harvard); Zohreh Mostaani; Mathew Magimai.-Doss (Idiap Research Institute)

⌚ 13:30–15:30 **Measuring acoustic dissimilarity of hierarchical markers in task-oriented dialogue with MFCC-based dynamic time warping**

Natalia Morozova; Guanghao You (University of Zurich); Sabine Stoll (University of Zurich, Department of Comparative Language Science, Center for the Interdisciplinary Study of Language Evolution); Adrian Bangerter (University of Neuchatel)

⌚ 13:30–15:30 **Comparative Analysis of Personalized Voice Activity Detection Systems: Assessing Real-World Effectiveness**

Sai Srujana Buddi (Apple); Satyam Kumar (The University of Texas at Austin); Utkarsh (Oggy) Sarawgi; Vineet Garg; Shivesh Ranjan; Ognjen (Oggi) Rudovic; Ahmed Hussen Abdelaziz; Saurabh Adya (Apple)

⌚ 13:30–15:30 **Generalized Fake Audio Detection via Deep Stable Learning**

Zhiyong Wang (University of Chinese Academy of Sciences); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Zhengqi Wen (CASIA); Yuankun Xie (Communication University of China); Yukun Liu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Xiaopeng Wang (UCAS); Xuefei Liu (Qiyuan Lab); Yongwei Li (Chinese Academy of Sciences); Jianhua Tao (Tsinghua University); Xin Qi (University of Chinese Academy of Sciences); Yi Lu (State Key Laboratory of Multimodal Artificial Intelligence Systems, Institute of Automation, Chinese Academy of Sciences); Shuchen Shi (Shanghai Polytechnic University)

⌚ 13:30–15:30 **Multimodal Large Language Models with Fusion Low Rank Adaptation for Device Directed Speech Detection**

Shruti Palaskar; Ognjen (Oggi) Rudovic; Sameer Dharur; Florian Pesce; Gautam Krishna; Aswin Sivaraman; Jack Berkowitz; Ahmed Hussen Abdelaziz; Saurabh Adya; Ahmed Tewfik (Apple)

⌚ 13:30–15:30 **CtrSVDD: A Benchmark Dataset and Baseline Analysis for Controlled Singing Voice Deepfake Detection**

Yongyi Zang (University of Rochester); Jiatong Shi (Carnegie Mellon University); You Zhang (University of Rochester); Ryuichi Yamamoto (Nagoya University); Jionghao Han (Carnegie Mellon University); Yuxun Tang (Renmin University of China); Shengyuan Xu; Wenxiao Zhao; Jing Guo (Timedomain.ai); Tomoki Toda (Nagoya University); Zhiyao Duan (University of Rochester)

Alon Vinnikov; Amir Ivry; Aviv Hurvitz; Igor Abramovski; Sharon Koubi (Microsoft); Ilya Gurvich (Microsoft Corporation); Shai Peer; Xiong Xiao; Benjamin Martinez Elizalde; Naoyuki Kanda; Xiaofei Wang (Microsoft); Shalev Shaer (Technion); Stav Yagev; Yossi Asher; Sunit Sivasankaran; Yifan Gong; Min Tang; Huaming Wang (Microsoft); Eyal Krupka (Microsoft Research)

🕒 13:30–15:30 **Fully Few-shot Class-incremental Audio Classification Using Expandable Dual-embedding Extractor**

Yongjie Si; Yanxiong Li; Jialong Li; Jiabin Tan; Qianhua He (SOUTH CHINA UNIVERSITY OF TECHNOLOGY)

🕒 13:30–15:30 **Enhanced ASR Robustness to Packet Loss with a Front-End Adaptation Network**

Yehoshua Dissen; Shiry Yonash; Israel Cohen; Joseph Keshet (Technion - Israel Institute of Technology)

**A8-P5 - Noise, Far-Field, Multi-Talker, Enhancement, Audio Classification**

POSTER 📍 Poster Area 4A

📅 Thursday 05 September 2024 🕒

13:30–15:30 **Session chairs : Erfan Loweimi**

🕒 13:30–15:30 **RIR-SF: Room Impulse Response Based Spatial Feature for Target Speech Recognition in Multi-Channel Multi-Speaker Scenarios**

Yiwen Shao (Johns Hopkins University); Shi-Xiong Zhang (Capital One); Dong Yu (Tencent AI Lab)

🕒 13:30–15:30 **Hold Me Tight: Stable Encoder-Decoder Design for Speech Enhancement**

Daniel Haider; Felix Perfler (Acoustics Research Institute); Vincent Lostanlen (LS2N, CNRS); Martin Ehler (University of Vienna); Peter Balazs (Acoustics Research Institute, Austrian Academy of Sciences)

🕒 13:30–15:30 **DGSRN: Noise-Robust Speech Recognition Method with Dual-Path Gated Spectral Refinement Network**

Wenjun Wang; Shangbin Mo; Ling Dong; Zhengtao Yu; Junjun Guo; Yuxin Huang (Kunming University of Science and Technology)

🕒 13:30–15:30 **Multi-Channel Multi-Speaker ASR Using Target Speaker's Solo Segment**

Yiwen Shao (Johns Hopkins University); Shi-Xiong Zhang (Capital One); Yong Xu; Meng Yu (Tencent); Dong Yu (Tencent AI Lab); Daniel Povey (Xiaomi, Inc.); Sanjeev Khudanpur (Johns Hopkins University)

🕒 13:30–15:30 **Towards Robust Few-shot Class Incremental Learning in Audio Classification using Contrastive Representation**

Riyansha Singh (IIT Kanpur); Parinita Nema (Indian Institute of Science Education and Research Bhopal); Vinod K Kurmi (IISER Bhopal)

🕒 13:30–15:30 **Transcription-Free Fine-Tuning of Speech Separation Models for Noisy and Reverberant Multi-Speaker Automatic Speech Recognition**

William Ravenscroft (The University of Sheffield); George Close; Stefan Goetze; Thomas Hain (University of Sheffield); Mohammad Soleymampour; Anurag Chowdhury; Mark C. Fuhs (Solventum)

🕒 13:30–15:30 **Bird Whisperer: Leveraging Large Pre-trained Acoustic Model for Bird Call Classification**

Muhammad Umer Sheikh; Hassan Abid; Bhuiyan Sanjid Shafique; Asif Hanif; Muhammad Haris Khan (Mohamed Bin Zayed University of Artificial Intelligence)

🕒 13:30–15:30 **NOTSOFAR-1 Challenge: New Datasets, Baseline, and Tasks for Distant Meeting Transcription**

🕒 13:30–15:30 **SpeakerBeam-SS: Real-time Target Speaker Extraction with Lightweight Conv-TasNet and State Space Modeling**

Hiroshi Sato; Takafumi Moriya (NTT); Masato Mimura (NTT corporation); Shota Horiguchi; Tsubasa Ochiai; Takanori Ashihara (NTT); Atsushi Ando (NTT Corporation); Kentaro Shinayama; Marc Delcroix (NTT)

🕒 13:30–15:30 **wTIMIT2mix: A Cocktail Party Mixtures Database to Study Target Speaker Extraction for Normal and Whispered Speech**

*Marvin Borsdorf (University of Bremen); Zexu Pan (Mitsubishi Electric Research Laboratories (MERL)); Haizhou Li (The Chinese University of Hong Kong, Shenzhen); Tanja Schultz (University of Bremen)*

**A7-P5-B - Speech Synthesis: Other Topics 2**

📄 **POSTER** 📍 **Poster Area 3B**

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **Enabling Conversational Speech Synthesis using Noisy Spontaneous Data**

*Liisa Rätsep; Rasmus Lellep; Mark Fishel (University of Tartu)*

🕒 13:30–15:30 **Frame-Wise Breath Detection with Self-Training: An Exploration of Enhancing Breath Naturalness in Text-to-Speech**

*Dong Yang (The University of Tokyo); Tomoki Koriyama (CyberAgent, Inc.); Yuki Saito ("The University of Tokyo, Japan")*

🕒 13:30–15:30 **H4C-TTS: Leveraging Multi-Modal Historical Context for Conversational Text-to-Speech**

*Donghyun Seong (Hanyang University); Joon-Hyuk Chang (Hanyang University)*

🕒 13:30–15:30 **Bilingual and Code-switching TTS Enhanced with Denoising Diffusion Model and GAN**

*Huai-Zhe Yang; Chia-Ping Chen; Shan-Yun He; Cheng-Ruei Li (National Sun Yat-sen University)*

🕒 13:30–15:30 **SpeechBERTScore: Reference-Aware Automatic Evaluation of Speech Generation Leveraging NLP Evaluation Metrics**

*Takaaki Saeki (The University of Tokyo); Soumi Maiti (CMU); Shinnosuke Takamichi (The University of Tokyo);*

*Shinji Watanabe (Carnegie Mellon University); Hiroshi Saruwatari (The University of Tokyo)*

🕒 13:30–15:30 **UNIQUE : Unsupervised Network for Integrated Speech Quality Evaluation**

*Juhwan Yoon; WooSeok Ko; Seyun Um (yonsei university); Sungwoong Hwang; Soojoong Hwang (Hyundai Motor Company); Changwan Kim (Hyundai Motor Group); Hong-Goo Kang (Yonsei University)*

🕒 13:30–15:30 **FVTTS : Face Based Voice Synthesis for Text-to-Speech**

*Minyoung Lee; Eunil Park; Sungeun Hong (Sungkyunkwan University)*

**A7-P5-A - Speech Synthesis: Other Topics 1**

📄 **POSTER** 📍 **Poster Area 3A**

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Gustav Eje Henter**

🕒 13:30–15:30 **LiteFocus: Accelerated Diffusion Inference for Long Audio Synthesis**

*Zhenxiong Tan; Xinyin Ma; Gongfan Fang; Xinchao Wang (National University of Singapore)*

🕒 13:30–15:30 **Speak in the Scene: Diffusion-based Acoustic Scene Transfer toward Immersive Speech Generation**

*Miseul Kim (Yonsei University); Soo-Whan Chung; Youna Ji (NAVER Corporation); Hong-Goo Kang (Yonsei University); Min-Seok Choi (NAVER)*

🕒 13:30–15:30 **PL-TTS: A Generalizable Prompt-based Diffusion TTS Augmented by Large Language Model**

*Shuhua Li; Qirong Mao (Jiangsu University); Jiatong Shi (Carnegie Mellon University)*

🕒 13:30–15:30 **Towards realtime co-speech gestures synthesis using STARGATE**

*Louis Abel (Université de Lorraine); Vincent Colotte; Slim Ouni (LORIA)*



🕒 13:30–15:30

### PPPR: Portable Plug-in Prompt Refiner for Text to Audio Generation

Shuchen Shi (Shanghai Polytechnic University); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Zhengqi Wen (CASIA); Jianhua Tao (Tsinghua University); Tao Wang (Institute of Automation, Chinese Academy of Sciences); Chunyu Qiang (Tianjin University); Yi Lu (State Key Laboratory of Multimodal Artificial Intelligence Systems, Institute of Automation, Chinese Academy of Sciences); Xin Qi (University of Chinese Academy of Sciences); Xuefei Liu (Qiyuan Lab); Yukun Liu (CASIA); Yongwei Li (Chinese Academy of Sciences); Zhiyong Wang (University of Chinese Academy of Sciences); Xiaopeng Wang (UCAS)

🕒 13:30–15:30

### Neural ATSM: Fully Neural Network-based Adaptive Time-Scale Modification Using Sentence-Specific Dynamic Control

Jaeuk Lee; Sohee Jang; Joon-Hyuk Chang (Hanyang University)

🕒 13:30–15:30

### FLY-TTS: Fast, Lightweight and High-Quality End-to-End Text-to-Speech Synthesis

Yinlin Guo; Yening Lv; Jinqiao Dou; Yan Zhang; Yuehai Wang (Zhejiang University)

🕒 13:30–15:30

### Zero-shot Out-of-domain is No Joke: Lessons Learned in the VoiceMOS 2023 MOS Prediction Challenge

Marie Kunešová; Jan Lehečka; Josef Michálek (University of West Bohemia); Jindřich Matoušek (University of West Bohemia, Pilsen, Czech Republic); Jan Švec (University of West Bohemia)

🕒 13:30–15:30

### Towards a General-Purpose Model of Perceived Pragmatic Similarity

Nigel G. Ward (University of Texas at El Paso, USA); Andres Segura; Alejandro Ceballos; Divette Marco (University of Texas at El Paso)

## SS8 - Connecting Speech-science and Speech-technology for Children's Speech (Special Session)

POSTER

📍 Yanis Club

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs : Zhengjun Yue, Nina Benway**

🕒 13:30–15:30

### Preliminary Investigation of Psychometric Properties of a Novel Multimodal Dialog Based Affect Production Task in Children and Adolescents with Autism

Carly Demopoulos; Linnea Lampinen; Cristian Preciado (UCSF); Hardik Kothare (Modality.AI); Vikram Ramnarayanan (University of California, San Francisco & Modality.AI)

🕒 13:30–15:30

### Training speech-breathing coordination in computer-assisted reading

Delphine Charuau (GIPSA Lab); Andrea Briglia (GIPSA-lab Université de Grenoble Alpes); Erika Godde (LEAD - Université de Bourgogne); Gérard Bailly (GIPSA-Lab/CNRS)

🕒 13:30–15:30

### How Does Alignment Error Affect Automated Pronunciation Scoring in Children's Speech?

Prad Kadambi (Arizona State University); Tristan Mahr (University of Wisconsin - Madison); Lucas Annear; Henry Nomeland (University of Wisconsin-Madison); Julie Liss (Arizona State University); Katherine Hustad (University of Wisconsin - Madison); Visar Berisha (Arizona State University)

🕒 13:30–15:30

### Examining Vocal Tract Coordination in Childhood Apraxia of Speech with Acoustic-to-Articulatory Speech Inversion Feature Sets

Nina R. Benway (University of Maryland); Jonathan L. Preston (Syracuse University); Carol Espy-Wilson (University of Maryland)

🕒 13:30–15:30

### Children's Speech Recognition through Discrete Token Enhancement

Vrunda N. Sukhadia (QCRI); Shammur Absar Chowdhury (QCRI)



🕒 13:30–15:30 **Bridging Child-Centered Speech Language Identification and Language Diarization via Phonetics**

*Yujia Wang (Johns Hopkins University); Hexin Liu (Nanyang Technological University); Paola Garcia (Johns Hopkins University)*

🕒 13:30–15:30 **Reading Miscue Detection in Primary School through Automatic Speech Recognition**

*Lingyun Gao; Cristian Tejedor-Garcia (Radboud University Nijmegen); Helmer Strik; Catia Cucchiari (Radboud Universiteit Nijmegen)*

🕒 13:30–15:30 **Automatic Evaluation of a Sentence Memory Test for Preschool Children**

*Ilja Baumann; Nicole Unger (Technische Hochschule Nürnberg Georg Simon Ohm); Dominik Wagner (Technische Hochschule Nuernberg Georg Simon Ohm); Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm); Tobias Bocklet (TH Nürnberg)*

🕒 13:30–15:30 **Enhancing Child Vocalization Classification with Phonetically-Tuned Embeddings for Assisting Autism Diagnosis**

*Jialu Li (UIUC); Mark Hasegawa-Johnson (University of Illinois); Karrie Karahalios (University of Illinois at Urbana-Champaign)*

🕒 13:30–15:30 **Self-Supervised Models for Phoneme Recognition: Applications in Children’s Speech for Reading Learning**

*Lucas Block Medin (Lalilo by Renaissance Learning); Thomas Pellegrini (IRIT); Lucile Gelin (Lalilo)*

🕒 13:30–15:30 **Benchmarking Children’s ASR with Supervised and Self-supervised Speech Foundation Models**

*Ruchao Fan (University of California, Los Angeles); Natarajan Balaji Shankar (University of California Los Angeles); Abeer Alwan (UCLA)*

🕒 13:30–15:30 **Introduction To Partial Fine-tuning: A Comprehensive Evaluation Of End-to-end Children’s Automatic Speech Recognition Adaptation**

*Thomas Rolland (INESC-ID); Alberto Abad (INESC-ID/IST)*

🕒 13:30–15:30 **Improving child speech recognition with augmented child-like speech**

*Yuanyuan Zhang; Zhengjun Yue (Technische Universiteit Delft); Tanvina Patel (Multimedia computing, Delft University of Technology); Odette Scharenborg (Multimedia Computing Group, Delft University of Technology)*

🕒 13:30–15:30 **Mixed Children/Adult/Childr-enized Fine-Tuning for Children’s ASR: How to Reduce Age Mismatch and Speaking Style Mismatch**

*Thomas Graave (Technische Universität Braunschweig); Zhengyang Li (Technische Universität Carolo-Wilhelmina Braunschweig); Timo Lohrenz; Tim Fingscheidt (Technische Universität Braunschweig)*

🕒 13:30–15:30 **Exploring Speech Foundation Models for Speaker Diarization in Child-Adult Dyadic Interactions**

*Anfeng Xu; Kevin Huang; Tiantian Feng (University of Southern California); Lue Shen; Helen Tager-Flusberg (Boston University); Shrikanth Narayanan (USC)*

**ST4 - Show and Tell 4**

**SAT** 📍 **Exhibition**

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs :**

🕒 13:30–15:30 **IIITH Ucchar e-Sudharak: an automatic English pronunciation corrector for school-going children with a teacher in the loop**

*Meenakshi Sirigiraju (Speech Processing Lab, LTRC, IIIT Hyderabad, India); Arjun Rajasekar; Abhishikth Meejuri (Raj Reddy Center for Technology and Society, IIIT Hyderabad, India); Chiranjeevi Yarra (International Institute of Information Technology Hyderabad)*

🕒 13:30–15:30 **Speech enabled visual acuity test**

*Boon Peng Yap (Tan Tock Seng Hospital, Singapore); Kok Liang Tan (Singapore Institute of Technology, Singapore); Zhenghao Li (Tan Tock Seng Hospital, Singapore); Rong Tong (Singapore Institute of Technology, Singapore)*

🕒 13:30–15:30 **A ChatGPT-based oral Q&A practice system for first-time student participants in international conferences**

*Mayuko Aiba (Graduate School of Engineering, The University of Tokyo, Japan); Daisuke Saito; Nobuaki Mine-matsu (The University of Tokyo)*

🕒 13:30–15:30 **Visual scene display application for augmentative and alternative communication**

*Karthik Venkat Sridaran (All India Institute of Speech and Hearing, Mysore, Karnataka, India); Raja Praveen (JAIN (Deemed-to-be University), Bengaluru, Karnataka, India); Reuben T Varghese; Ajish K Abraham (All India Institute of Speech and Hearing, Mysore, Karnataka, India); Shankar R (JAIN (Deemed-to-be University), Bengaluru, Karnataka, India); Winnie Rachel Cherian (All India Institute of Speech and Hearing, Mysore, Karnataka, India)*

🕒 13:30–15:30 **CALL system using pitch-accent feature representations reflecting listeners' subjective adequacy**

*Ikuyo Masuda-Katsuse (Kindai University Tokyo); Ayako Shirose (Gakugei University)*

🕒 13:30–15:30 **The speech motor chaining web app for speech motor learning**

*Jonathan L. Preston (Syracuse University); Nina R Ben-way (University of Maryland, College Park, MD, USA); Nathan Prestopnik (Shenandoah University, Winchester, VA, USA); Nathan Preston (SpeechLink, Syracuse, NY, USA)*

🕒 13:30–15:30 **Visualization for improving foreign language pronunciation**

*Charlotte Yoder (University of Illinois Urbana-Champaign, United States of America); Karrie Karahalios (University of Illinois at Urbana-Champaign); Mark Hasegawa-Johnson (University of Illinois); Shreyansh Agrawal (University of Illinois Urbana-Champaign, United States of America)*

🕒 13:30–15:30 **CaptainA self-study mobile app for practising speaking: task completion assessment and feedback with generative AI**

*Nhan Phan (Aalto University); Anna von Zansen (University of Helsinki); Maria Kautonen (University of*

*Jyväskylä); Tamas Grosz; Mikko Kurimo (Aalto University)*

🕒 13:30–15:30 **NeuRO: an application for code-switched autism detection in children**

*Mohd Mujtaba Akhtar; Girish [unknown lastname] (School of Computer Science, UPES, Dehradun, India); Orchid Chetia Phukan (IIIT Delhi); Muskaan Singh (ISRC, Ulster University, UK)*

🕒 13:30–15:30 **ComFeAT: combination of neural and spectral features for improved depression detection**

*Orchid Chetia Phukan (IIIT Delhi); Sarthak Jain (GGSIPIU New Delhi, India); Shubham Singh (BIT Mesra, India); Muskaan Singh (ISRC, Ulster University, UK); Arun Balaji Buduru (IIIT Delhi); Rajesh Sharma (University of Tartu, Estonia)*

## Closing - Closing Ceremony

CEREMONY

📍 Hippocrates

📅 Thursday 05 September 2024 🕒  
16:00–17:00 Session chairs :

# Author Index

The image shows a large, out-of-focus audience of people seated in rows, facing a stage. A person is standing on the stage, likely a speaker or presenter. The scene is dimly lit, with a blueish tint, suggesting an indoor event like a conference or lecture. The text 'Author Index' is centered in the upper portion of the image in a clean, white, sans-serif font.

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