

Provisional Programme

July 31, 2024

The programme is subject to changes.

Monday 2 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	lasso	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 Paralinguistic	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	Opening Ceremony [Hippocrates]						
10:00 – 11:00	Keynote 1 [Hippocrates] - Isabel Trancoso						
11:00 – 11:30	Break						
11:30 – 13:30	A5-P1-B Acoustic Event Detection and Classi- fication 2	A12-P1-A Spoken Language Processing	A12-P1-B Spoken Machine Translation 2	SS2 Biosignal- enabled Spoken Communi- cation			
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, Derever- beration, and Echo Cancellation	A6-P1-B Computation Efficient Speech Enhancemer	SS13 TAUKADIAL Challenge: Speech-Base Cognitive Assessment in ... Session)	ST1 Show and Tell 1
17:00 – 17:30	Break						
17:30 – 19:00							
19:00 – 20:30	Welcome Reception						

Tuesday 3 September 2024

	Hip- pocrates	Panacea Amphithe- ater	Acesso	Aegle A	Aegle B	lasso	Melambus	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 Enhancemer	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 Summa- rization	A2-P1 Innovative Methods in Phonetics and Phonology	A2-P1-B Voice, Tones and F0	A4-P2 Speaker and Language Identifica- tion 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 Classifica- tion
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 Under- standing	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 Enhancemer	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 Enhancemer	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	lasso	Melampus	Poster Area 1A	Poster Area 1B	Poster Area 2A
08:30 – 09:30	Keynote 3 [Hippocrates] - Elmar Nöth									
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 Enhancer	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 Enhancer	A10-O3 Speech Assessment	A3-O4 New Avenues in Emotion Recognition	A7-O6 Speech Synthesis: Vocoders	A4-P4-A Speaker Diarization 2	A4-P4-B Speaker Recognition 2	A9-P2 Cross-Lingual and Multilingual Processing
19:30 – 00:00	Banquet									

	Poster Area 2B	Poster Area 3A	Poster Area 3B	Poster Area 4A	Poster Area 4B	Yanis Club	Exhibition
08:30 – 09:30	Keynote 3 [Hippocrates] - Elmar Nöth						
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 Under- standing	A11-P1-B Spoken Dialogue Systems and Con- versational 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 Con- versational 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	Banquet						

Thursday 5 September 2024

	Hippocrates	Panacea Amphitheater	Acesso	Aegle A	Aegle B	lasso	Melampus	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 Clas- sification	SS4 Leveraging Large Language Models and Contextual ... Session)	A7-O7 Privacy and Security in Speech Communi- cation 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 Enhancemer Approaches, Scalability, and Evaluation	A3-P3-A Multimodal Para- linguistics	A3-P3-B Automatic Emotion Recognition	A5-P4-A Acoustic Event Detection, Segmentation and Classi- fication
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	Keynote 4 [Hippocrates] - Barbara Tillmann						
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 Clas- sification		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	Closing Ceremony [Hippocrates]						

1 Programme 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 :**

A9-O1.1 ⌚ 11:30–11:50 #404 – 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)

A9-O1.2 ⌚ 11:50–12:10 #1891 – 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)

A9-O1.3 ⌚ 12:10–12:30 #2457 – 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)

A9-O1.4 ⌚ 12:30–12:50 #1591 – 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)

A9-O1.5 ⌚ 12:50–13:10 #1349 – 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)

A9-O1.6 ⌚ 13:10–13:30 #2222 – 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 :**

A7-O1.1 ⌚ 11:30–11:50 #1107 – 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)

A7-O1.2 🕒 11:50–12:10 **#1298 – Neural Codec Language Models for Disentangled and Textless Voice Conversion**

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

A7-O1.3 🕒 12:10–12:30 **#2351 – Fine-Grained and Interpretable Neural Speech Editing**

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

A7-O1.4 🕒 12:30–12:50 **#2387 – FastVoice-Grad: One-step Diffusion-Based Voice Conversion with Adversarial Conditional Diffusion Distillation**

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

A7-O1.5 🕒 12:50–13:10 **#1857 – 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)

A7-O1.6 🕒 13:10–13:30 **#1941 – 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 :**

A6-O1.1 🕒 11:30–11:50 **#834 – 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)

A6-O1.2 🕒 11:50–12:10 **#1414 – Interference Aware Training Target for DNN based joint Acoustic Echo Cancellation and Noise Suppression**

Vahid Khanagha; Dimitris Koutsaidis; Kaustubh Kalgaonkar; Sriram Srinivasan (Meta)

A6-O1.3 🕒 12:10–12:30 **#107 – Low Complexity Echo Delay Estimator Based on Binarized Feature Matching**

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

A6-O1.4 🕒 12:30–12:50 **#1355 – 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)

A6-O1.5 🕒 12:50–13:10 **#1957 – Efficient Joint Beamforming and Acoustic Echo Cancellation Structure for Conference Call Scenarios**

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

A6-O1.6 🕒 13:10–13:30 **#763 – 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 :**

A4-O1.1 🕒 11:30–11:50 **#1044 – Investigating Confidence Estimation Measures for Speaker Diarization**

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

A4-O1.2 🕒 11:50–12:10 **#1174 – Speakers Unembedded: Embedding-free Approach to Long-form Neural Diarization**

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

A4-O1.3 🕒 12:10–12:30 **#561 – 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)

A4-O1.4 🕒 12:30–12:50 **#668 – EEND-M2F: Masked-attention mask transformers for speaker diarization**

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

A4-O1.5 🕒 12:50–13:10 **#764 – 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)

A4-O1.6 🕒 13:10–13:30 **#1146 – 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-O1.1 🕒 11:30–11:50 **#2297 – Pitch-Aware RNN-T for Mandarin Chinese Mispronunciation Detection and Diagnosis**

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

A10-O1.2 🕒 11:50–12:10 **#123 – MultiPA: A Multi-task Speech Pronunciation Assessment Model for Open Response Scenarios**

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

A10-O1.3 🕒 12:10–12:30 **#459 – A Framework for Phoneme-Level Pronunciation Assessment Using CTC**

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

A10-O1.4 🕒 12:30–12:50 **#2217 – Phonological-Level Mispronunciation Detection and Diagnosis**

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

A10-O1.5 🕒 12:50–13:10 **#2498 – Acoustic Feature Mixup for Balanced Multi-aspect Pronunciation Assessment**

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

A10-O1.6 🕒 13:10–13:30 **#1166 – Automated content assessment and feedback for Finnish L2 learners in a picture description speaking task**

Nhan Phan (Aalto University, Finland); Anna von Zansen (University of Helsinki, Finland); Maria Kautonen (University of Jyväskylä, Finland); Ekaterina Voskoboinik (Aalto University); Tamás Grósz (Aalto University, Finland); Raili Hilden (University of Helsinki); Mikko Kurimo (Aalto University, Finland)

A10-O1 - Pronunciation Assessment

ORAL 📍 Iasso

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

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

ORAL 📍 Panacea Amphitheater

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

A1-O1.1 ⌚ 11:30–12:10 **#6102 – Second language (L2) speech and perception**

Ann Bradlow (Northwestern University)

A1-O1.2 ⌚ 12:10–12:30 **#1669 – The influence of L2 accent strength and different error types on personality trait ratings**

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

A1-O1.3 ⌚ 12:30–12:50 **#551 – Characterizing code-switching: Applying Linguistic Principles for Metric Assessment and Development**

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

A1-O1.4 ⌚ 12:50–13:10 **#418 – Towards a better understanding of receptive multilingualism: listening conditions and priming effects**

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

A1-O1.5 ⌚ 13:10–13:30 **#1749 – 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 :**

A5-O2.1 ⌚ 11:30–11:50 **#1412 – Vision Transformer Segmentation for Visual Bird Sound Denoising**

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

A5-O2.2 ⌚ 11:50–12:10 **#143 – 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)

A5-O2.3 ⌚ 12:10–12:30 **#1453 – 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)

A5-O2.4 ⌚ 12:30–12:50 **#1096 – 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 Neuroscience, Aix Marseille Univ, CNRS)

A5-O2.5 ⌚ 12:50–13:10 **#439 – 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)

A5-O2.6 ⌚ 13:10–13:30 **#283 – 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 :**

A8-P1.1 ⌚ 11:30–13:30 **#619 – InterBiasing: Boost Unseen Word Recognition through Biasing Intermediate Predictions**

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

A8-P1.2 ⌚ 11:30–13:30 **#243 – 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)

A8-P1.3 ⌚ 11:30–13:30 **#870 – How Much Context Does My Attention-Based ASR System Need?**

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

A8-P1.4 ⌚ 11:30–13:30 **#2029 – 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)

A8-P1.5 ⌚ 11:30–13:30 **#2374 – 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)

A8-P1.6 ⌚ 11:30–13:30 **#2384 – 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)

A8-P1.7 ⌚ 11:30–13:30 **#994 – Exploring the Capability of Mamba in Speech Applications**

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

A8-P1.8 ⌚ 11:30–13:30 **#2489 – 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)

A8-P1.9 ⌚ 11:30–13:30 **#768 – 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)

A8-P1.10 ⌚ 11:30–13:30 **#565 – Exploring the limits of decoder-only models trained on public speech recognition corpora**

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

A8-P1.11 ⌚ 11:30–13:30 **#965 – 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 :**

A5-P1-B.1 ⌚ 11:30–13:30 **#2285 – 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)

A5-P1-B.2 ⌚ 11:30–13:30 **#145 – 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)

A5-P1-B.3 ⌚ 11:30–13:30 **#216 – 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)

A5-P1-B.4 ⌚ 11:30–13:30 **#573 – 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.)

A5-P1-B.5 ⌚ 11:30–13:30 **#1761 – 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)

A5-P1-B.6 ⌚ 11:30–13:30 **#1703 – Fake-Sound: Deepfake General Audio Detection**

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

A5-P1-B.7 ⌚ 11:30–13:30 **#1205 – 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 :**

A5-P1-A.1 ⌚ 11:30–13:30 **#1863 – 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)

A5-P1-A.2 ⌚ 11:30–13:30 **#29 – 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)

A5-P1-A.3 ⌚ 11:30–13:30 **#245 – Audio Fingerprinting with Holographic Reduced Representations**

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

A5-P1-A.4 ⌚ 11:30–13:30 **#2203 – 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)

A5-P1-A.5 ⌚ 11:30–13:30 **#1805 – 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)

A5-P1-A.6 ⌚ 11:30–13:30 **#396 – 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)

A5-P1-A.7 ⌚ 11:30–13:30 **#74 – 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 :

A12-P1-B.1 ⌚ 11:30–13:30 **#759 – Parameter-Efficient Adapter Based on Pre-trained Models for Speech Translation**

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

A12-P1-B.2 ⌚ 11:30–13:30 **#2109 – Wave to Interlingua: Analyzing Representations of Multilingual Speech Transformers for Spoken Language Translation**

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

A12-P1-B.3 ⌚ 11:30–13:30 **#2346 – Knowledge-Preserving Pluggable Modules for Multilingual Speech Translation Tasks**

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

A12-P1-B.4 ⌚ 11:30–13:30 **#1759 – Navigating the Minefield of MT Beam Search in Cascaded Streaming Speech Translation**

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

A12-P1-B.5 ⌚ 11:30–13:30 **#1507 – 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)

A12-P1-B.6 ⌚ 11:30–13:30 **#2548 – 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)

A12-P1-B.7 ⌚ 11:30–13:30 **#903 – Translating speech with just images**

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

A12-P1-B.8 ⌚ 11:30–13:30 **#1088 – 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 :

A12-P1-A.1 ⌚ 11:30–13:30 **#100 – 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)

A12-P1-A.2 ⌚ 11:30–13:30 **#229 – Relational Proxy Loss for Audio-Text based Keyword Spotting**

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

ung Reserch); Hoon-Young Cho (Samsung Research)

A12-P1-A.3 ⌚ 11:30–13:30 **#706 – 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)

A12-P1-A.4 ⌚ 11:30–13:30 **#789 – 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)

A12-P1-A.5 ⌚ 11:30–13:30 **#1342 – 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)

A12-P1-A.6 ⌚ 11:30–13:30 **#1664 – Adding User Feedback To Enhance CB-Whisper**

Raul Monteiro (Priberam Informática S. A.)

A12-P1-A.7 ⌚ 11:30–13:30 **#1194 – 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 :**

SS2.1 ⌚ 11:30–13:30 **#1571 – 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))

SS2.2 ⌚ 11:30–13:30 **#1568 – 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)

SS2.3 ⌚ 11:30–13:30 **#1289 – 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)

SS2.4 ⌚ 11:30–13:30 **#2153 – 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)

SS2.5 ⌚ 11:30–13:30 **#1864 – 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)

SS2.6 ⌚ 11:30–13:30 **#2223 – Multimodal Segmentation for Vocal Tract Modeling**

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

SS2.7 ⌚ 11:30–13:30 **#1756 – 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)

SS2.8 ⌚ 11:30–13:30 **#739 – 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)

SS2.9 ⌚ 11:30–13:30 **#753 – 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)

SS2.10 ⌚ 11:30–13:30 **#1217 – 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 :**

A8-O1.1 ⌚ 15:00–15:20 **#90 – 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); Shixiong Zhang (Capital One); Daniel Povey (Xiaomi, Inc.)

A8-O1.2 ⌚ 15:20–15:40 **#700 – 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”)

A8-O1.3 ⌚ 15:40–16:00 **#1710 – 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)

A8-O1.4 ⌚ 16:00–16:20 **#2211 – 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)

A8-O1.5 ⌚ 16:20–16:40 **#1137 – 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)

A8-O1.6 ⌚ 16:40–17:00 **#1062 – 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  Aceso

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

A5-O1.1  15:00–15:20 **#1350 – 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)

A5-O1.2  15:20–15:40 **#246 – 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)

A5-O1.3  15:40–16:00 **#1274 – Audio Mamba: Selective State Spaces for Self-Supervised Audio Representations**


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

A5-O1.4  16:00–16:20 **#714 – 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)

A5-O1.5  16:20–16:40 **#2075 – Sound Event Bounding Boxes**

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

A5-O1.6  16:40–17:00 **#591 – 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 :**

A3-O1.1  15:00–15:40 **#6302 – Paralinguistics: Past and Present**


Anton Batliner (University of Munich)

A3-O1.2  15:40–16:00 **#514 – 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)

A3-O1.3  16:00–16:20 **#2237 – 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)

A3-O1.4  16:20–16:40 **#493 – 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)

A3-O1.5  16:40–17:00 **#1224 – 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 :

A2-O1.1 ⌚ 15:00–15:20 #2013 – Echoes of Implicit Bias Exploring Aesthetics and Social Meanings of Swiss German Dialect Features

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

A2-O1.2 ⌚ 15:20–15:40 #2456 – In search of structure and correspondence in intraspeaker trial-to-trial variability

Vivian G. Li (Yale)

A2-O1.3 ⌚ 15:40–16:00 #2260 – Modelled Multivariate Overlap: A method for measuring vowel merger

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

A2-O1.4 ⌚ 16:00–16:20 #628 – Entrainment Analysis and Prosody Prediction of Subsequent Interlocutor's Backchannels in Dialogue

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

A2-O1.5 ⌚ 16:20–16:40 #1154 – 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)

A2-O1.6 ⌚ 16:40–17:00 #1763 – 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 :

A12-O1.1 ⌚ 15:00–15:20 #1858 – 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)

A12-O1.2 ⌚ 15:20–15:40 #616 – 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)

A12-O1.3 ⌚ 15:40–16:00 #2022 – 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)

A12-O1.4 ⌚ 16:00–16:20 #790 – Lightweight Audio Segmentation for Long-form Speech Translation

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

A12-O1.5 ⌚ 16:20–16:40 #2426 – 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)

A12-O1.6 🕒 16:40–17:00 **#490 – 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 :**

A11-O1.1 🕒 15:00–15:20 **#712 – 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)

A11-O1.2 🕒 15:20–15:40 **#940 – Out-of-distribution generalisation in spoken language understanding**

Dejan Porjazovski; Anssi Moisiö (Aalto University); Mikko Kurimo (Aalto University, Finland)

A11-O1.3 🕒 15:40–16:00 **#1133 – 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)

A11-O1.4 🕒 16:00–16:20 **#957 – 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)

A11-O1.5 🕒 16:20–16:40 **#103 – 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)

A11-O1.6 🕒 16:40–17:00 **#1219 – 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 :**

A7-O2.1 🕒 15:00–15:40 **#6702 – Zero-shot text-to-speech**

Zhizheng Wu (Chinese University of Hong Kong, Shenzhen)

A7-O2.2 🕒 15:40–16:00 **#1056 – 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)

A7-O2.3 🕒 16:00–16:20 **#1336 – 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)

A7-O2.4 🕒 16:20–16:40 **#803 – Lightweight Zero-shot Text-to-Speech with Mixture of Adapters**

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

A7-O2.5 🕒 16:40–17:00 **#549 – 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); Kingshan 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 :

A9-P1.1 🕒 15:00–17:00 #391 – 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)

A9-P1.2 🕒 15:00–17:00 #1762 – Improving Speech Recognition with Prompt-based Contextualized ASR and LLM-based Repredictor

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

A9-P1.3 🕒 15:00–17:00 #653 – 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)

A9-P1.4 🕒 15:00–17:00 #869 – 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)

A9-P1.5 🕒 15:00–17:00 #749 – 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.)

A9-P1.6 🕒 15:00–17:00 #1002 – 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)

A9-P1.7 🕒 15:00–17:00 #1162 – Prompt Tuning for Speech Recognition on Unknown Spoken Name Entities

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

A9-P1.8 🕒 15:00–17:00 #812 – 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)

A9-P1.9 🕒 15:00–17:00 #675 – 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)

A9-P1.10 🕒 15:00–17:00 #1006 – 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")

A9-P1.11 🕒 15:00–17:00 #633 – Factor-Conditioned Speaking-Style Captioning

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

A9-P1.12 ⌚ 15:00–17:00 **#348 – 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)

A9-P1.13 ⌚ 15:00–17:00 **#298 – 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)

A9-P1.14 ⌚ 15:00–17:00 **#2368 – 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 :**

A6-P1-B.1 ⌚ 15:00–17:00 **#1444 – 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)

A6-P1-B.2 ⌚ 15:00–17:00 **#1383 – Knowledge Distillation for Tiny Speech Enhancement with Latent Feature Augmentation**

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

A6-P1-B.3 ⌚ 15:00–17:00 **#1927 – Sub-PNWR: Speech Enhancement Based on Signal Sub-**

Band Splitting and Pseudo Noisy Waveform Reconstruction Loss

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

A6-P1-B.4 ⌚ 15:00–17:00 **#785 – 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.)

A6-P1-B.5 ⌚ 15:00–17:00 **#1368 – 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)

A6-P1-B.6 ⌚ 15:00–17:00 **#1017 – 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)

A6-P1-B.7 ⌚ 15:00–17:00 **#958 – 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 :**

A6-P1-A.1 ⌚ 15:00–17:00 **#662 – 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)

A6-P1-A.2 ⌚ 15:00–17:00 **#336 – 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)

A6-P1-A.3 ⌚ 15:00–17:00 **#1173 – 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)

A6-P1-A.4 ⌚ 15:00–17:00 **#2180 – DeWinder: Single-Channel Wind Noise Reduction using Ultrasound Sensing**

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

A6-P1-A.5 ⌚ 15:00–17:00 **#1151 – 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)

A6-P1-A.6 ⌚ 15:00–17:00 **#854 – 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)

A6-P1-A.7 ⌚ 15:00–17:00 **#639 – 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 :**

A4-P1.1 ⌚ 15:00–17:00 **#403 – 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)

A4-P1.2 ⌚ 15:00–17:00 **#1365 – 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)

A4-P1.3 ⌚ 15:00–17:00 **#251 – 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))

A4-P1.4 ⌚ 15:00–17:00 **#367 – 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)

A4-P1.5 ⌚ 15:00–17:00 **#372 – 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)

A4-P1.6 ⌚ 15:00–17:00 **#1191 – 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)

A4-P1.7 ⌚ 15:00–17:00 **#21 – 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)

A4-P1.8 ⌚ 15:00–17:00 **#346 – 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)

A4-P1.9 ⌚ 15:00–17:00 **#659 – 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 :**

A13-P1-B.1 ⌚ 15:00–17:00 **#2293 – Whister: Using Whisper’s representations for Stuttering detection**

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

A13-P1-B.2 ⌚ 15:00–17:00 **#1563 – Improving Speech-Based Dysarthria Detection using Multi-task Learning with Gradient Projection**

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

A13-P1-B.3 ⌚ 15:00–17:00 **#627 – Cascaded Transfer Learning Strategy for Cross-Domain Alzheimer’s Disease Recognition through Spontaneous Speech**

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

A13-P1-B.4 ⌚ 15:00–17:00 **#188 – 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)

A13-P1-B.5 ⌚ 15:00–17:00 **#2063 – 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)

A13-P1-B.6 ⌚ 15:00–17:00 **#1966 – Multi-modal Continuous Fingerspelling Recognition via Visual Alignment Learning**

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

A13-P1-B.7 ⌚ 15:00–17:00 **#2236 – 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)

A13-P1-B.8 ⌚ 15:00–17:00 **#1452 – DysArin-Vox: DYSphonia & DYSarthria mandARIN speech corpus**

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

A13-P1-B.9 ⌚ 15:00–17:00 **#1855 – 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); Brittany 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)

A13-P1-B.10 ⌚ 15:00–17:00 **#1009 – 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 :**

A13-P1-A.1 ⌚ 15:00–17:00 **#234 – 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)

A13-P1-A.2 ⌚ 15:00–17:00 **#432 – 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)

A13-P1-A.3 ⌚ 15:00–17:00 **#961 – Evaluating a 3-factor listener model for prediction of speech intelligibility to hearing-impaired listeners**

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

A13-P1-A.4 ⌚ 15:00–17:00 **#871 – 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)

A13-P1-A.5 ⌚ 15:00–17:00 **#111 – Signal processing algorithm effective for sound quality of hearing loss simulators**

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

A13-P1-A.6 ⌚ 15:00–17:00 **#1940 – 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)

A13-P1-A.7 15:00–17:00 #414 – 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)

A5-P2-B - Source Separation 2

POSTER 📍 Poster Area 2B

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

A5-P2-B.1 15:00–17:00 #530 – 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)

A5-P2-B.2 15:00–17:00 #1131 – 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)

A5-P2-B.3 15:00–17:00 #1066 – 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))

A5-P2-B.4 15:00–17:00 #2322 – OR-TSE: An Overlap-Robust Speaker Encoder for Target Speech Extraction

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

A5-P2-B.5 15:00–17:00 #1265 – 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)

A5-P2-B.6 15:00–17:00 #787 – 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))

A5-P2-B.7 15:00–17:00 #197 – TSE-PI: Target Sound Extraction under Reverberant Environments with Pitch Information

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

A5-P2-B.8 15:00–17:00 #1241 – 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 - TAU-KADIAL Challenge: Speech-Based Cognitive Assessment in Chinese and English (Special Session)

POSTER 📍 Yanis Club

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

SS13.1 15:00–17:00 #1807 – 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)

SS13.2 ⌚ 15:00–17:00 **#914 – Cognitive Insights Across Languages: Enhancing Multimodal Interview Analysis**

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

SS13.3 ⌚ 15:00–17:00 **#984 – 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)

SS13.4 ⌚ 15:00–17:00 **#2386 – Pre-trained Feature Fusion and Matching for Mild Cognitive Impairment Detection**

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

SS13.5 ⌚ 15:00–17:00 **#1352 – 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)

SS13.6 ⌚ 15:00–17:00 **#2030 – 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)

SS13.7 ⌚ 15:00–17:00 **#1422 – 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)

SS13.8 ⌚ 15:00–17:00 **#2115 – 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-Nürnberg); Tobias Weise (Friedrich-Alexander-Universität Erlangen-Nürnberg); Maria Schuster (Ludwig-Maximilians Universität München); Elmar Noeth (Friedrich Alexander Universität, Erlangen-Nürnberg); Juan Rafael Orozco-Arroyave (University of Antioquia); Andreas Maier (Pattern Recognition Lab, FAU Erlangen-Nürnberg)

ST1 - Show and Tell 1

SAT 📍 Exhibition

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

ST1.1 ⌚ 15:00–17:00 **#5001 – 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, Japan)

ST1.2 ⌚ 15:00–17:00 **#5002 – Faster Vocoder: a multi threading approach to achieve low latency during TTS Inference**

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

ST1.3 ⌚ 15:00–17:00 **#5005 – 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)

ST1.4 ⌚ 15:00–17:00 **#5009 – 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 Zieliński (Uhura Bionics Human Interactivity and Language Lab; SAMOVAR, Telecom SudParis, Institut Polytechnique de Paris); Paweł Cyrta; Marek Grzelec (Uhura Bionics Human Interactivity and Language Lab)

ST1.5 🕒 15:00–17:00 **#5010 – Stress transfer in speech-to-speech machine translation**

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

ST1.6 🕒 15:00–17:00 **#5016 – 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; Hisashi Kawai (National Institute of Information and Communications Technology, Japan)

ST1.7 🕒 15:00–17:00 **#5020 – 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)

ST1.8 🕒 15:00–17:00 **#5023 – 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 (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm)

ST1.9 🕒 15:00–17:00 **#5024 – Reliable dialogue system for facilitating student-counselor communication**

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

ST1.10 🕒 15:00–17:00 **#5017 – ASGIR: audio spectrogram transformer guided classification and information retrieval for birds**

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

ST1.11 🕒 15:00–17:00 **#5018 – PERSONA: an application for emotion recognition, gender recognition and age estimation**

Devyani Koshal; Orchid Chetia Phukan (IIIT-Delhi, India); Sarthak Jain (GGSIPU New Delhi, India); Arun Balaji Buduru (IIIT-Delhi, India); Rajesh Sharma (IIIT-Delhi, India); 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 :**

A13-O1.1 ⌚ 10:00–10:40 #2039 – The MARYS 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)

A13-O1.2 ⌚ 10:40–11:00 #522 – 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-Aroyave (University of Antioquia); Sabato Marco Siniscalchi (Università degli Studi di Palermo)

A13-O1.3 ⌚ 11:00–11:20 #96 – 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 (University Hospital Augsburg); Björn W. Schuller (Imperial College London)

A13-O1.4 ⌚ 11:20–11:40 #1075 – Adversarial Robustness Analysis in Automatic Pathological Speech Detection Approaches

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

A13-O1.5 ⌚ 11:40–12:00 #1799 – 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 📍 IASSO

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

A8-O2.1 ⌚ 10:00–10:20 #205 – 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)

A8-O2.2 ⌚ 10:20–10:40 #2248 – 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; Xuankai Chang (Carnegie Mellon University); Dan Jurafsky (Stanford University); Karen Livescu (TTI-Chicago); Hung-yi Lee (National Taiwan University); Shinji Watanabe (Carnegie Mellon University)

A8-O2.3 ⌚ 10:40–11:00 #734 – 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)

A8-O2.4 ⌚ 11:00–11:20 **#1492 – 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)

A8-O2.5 ⌚ 11:20–11:40 **#890 – 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)

A8-O2.6 ⌚ 11:40–12:00 **#1278 – 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-O2.3 ⌚ 10:40–11:00 **#579 – Schrödinger Bridge for Generative Speech Enhancement**

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

A6-O2.4 ⌚ 11:00–11:20 **#841 – Thunder : Unified Regression-Diffusion Speech Enhancement with a Single Reverse Step using Brownian Bridge**

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

A6-O2.5 ⌚ 11:20–11:40 **#1077 – Pre-training Feature Guided Diffusion Model for Speech Enhancement**

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

A6-O2.6 ⌚ 11:40–12:00 **#1545 – 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)

A6-O2 - Generative Speech Enhancement

ORAL 📍 Melambus

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

A6-O2.1 ⌚ 10:00–10:20 **#138 – 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)

A6-O2.2 ⌚ 10:20–10:40 **#590 – 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)

A4-O2 - Spoofing and Deepfake Detection

ORAL 📍 Aegle A

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

A4-O2.1 ⌚ 10:00–10:20 **#1283 – 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)

A4-O2.2 ⌚ 10:20–10:40 **#2009 – 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)

A4-O2.3 🕒 10:40–11:00 **#422 – 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)

A4-O2.4 🕒 11:00–11:20 **#2349 – 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)

A4-O2.5 🕒 11:20–11:40 **#2156 – Interpretable Temporal Class Activation Representation for Audio Spoofing Detection**

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

A4-O2.6 🕒 11:40–12:00 **#1724 – 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 :**

A2-O2.1 🕒 10:00–10:20 **#1296 – 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 (Indepen-

dent Web Developer); Jean-Julien Aucouturier (Institut FEMTO-ST); Angelica Lim (Simon Fraser University)

A2-O2.2 🕒 10:20–10:40 **#1014 – Automatic Speech Recognition with parallel L1 and L2 acoustic phone models to evaluate /l/ allophony in L2 English speech production**

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

A2-O2.3 🕒 10:40–11:00 **#2175 – 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)

A2-O2.4 🕒 11:00–11:20 **#2287 – 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)

A2-O2.5 🕒 11:20–11:40 **#1627 – 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)

A2-O2.6 🕒 11:40–12:00 **#1806 – 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 :**

A7-O3.1 ⌚ 10:00–10:20 **#1540 – 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)

A7-O3.2 ⌚ 10:20–10:40 **#2418 – 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)

A7-O3.3 ⌚ 10:40–11:00 **#781 – 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)

A7-O3.4 ⌚ 11:00–11:20 **#1193 – What do people hear? Listeners' Perception of Conversational Speech**

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

A7-O3.5 ⌚ 11:20–11:40 **#937 – 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)

A7-O3.6 ⌚ 11:40–12:00 **#959 – 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 :**

A3-P1-B.1 ⌚ 10:00–12:00 **#277 – How rhythm metrics are linked to produced and perceived speaker charisma**

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

A3-P1-B.2 ⌚ 10:00–12:00 **#1962 – 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)

A3-P1-B.3 ⌚ 10:00–12:00 **#2103 – Multimodal Belief Prediction**

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

A3-P1-B.4 ⌚ 10:00–12:00 **#347 – 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)

A3-P1-B.5 ⌚ 10:00–12:00 **#2483 – 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)

A3-P1-B.6 ⌚ 10:00–12:00 **#1871 – Modelling Lexical Characteristics of the Healthy Aging Population: A Corpus-Based Study**

Han Kunmei (National University of Singapore)

A3-P1-B.7 ⌚ 10:00–12:00 **#1097 – 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 :**

A3-P1-A.1 🕒 10:00–12:00 #921 – Reinforcement Learning based Data Augmentation for Noise Robust Speech Emotion Recognition

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

A3-P1-A.2 🕒 10:00–12:00 #1248 – 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)

A3-P1-A.3 🕒 10:00–12:00 #1956 – 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)

A3-P1-A.4 🕒 10:00–12:00 #1374 – 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)

A3-P1-A.5 🕒 10:00–12:00 #2385 – 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 :**

A8-P2.1 🕒 10:00–12:00 #377 – Improving Domain-Specific ASR with LLM-Generated Contextual Descriptions

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

A8-P2.2 🕒 10:00–12:00 #104 – 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)

A8-P2.3 🕒 10:00–12:00 #731 – CrisperWhisper: Accurate Timestamps on Verbatim Speech Transcriptions

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

A8-P2.4 🕒 10:00–12:00 #2157 – 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)

A8-P2.5 🕒 10:00–12:00 #2246 – 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)

A8-P2.6 🕒 10:00–12:00 #855 – 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)

A8-P2.7 ⌚ 10:00–12:00 **#472 – 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)

A8-P2.8 ⌚ 10:00–12:00 **#2341 – A layer-wise analysis of Mandarin and English suprasegmentals in SSL speech models**

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

A8-P2.9 ⌚ 10:00–12:00 **#1231 – 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)

A8-P2.10 ⌚ 10:00–12:00 **#444 – Dysarthric Speech Recognition Using Curriculum Learning and Articulatory Feature Embedding**

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

A8-P2.11 ⌚ 10:00–12:00 **#1360 – Enhancing Dysarthric Speech Recognition for Unseen Speakers via Prototype-Based Adaptation**

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

A8-P2.12 ⌚ 10:00–12:00 **#583 – 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.)

A8-P2.13 ⌚ 10:00–12:00 **#368 – 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 (National Institute of Information and Communications Technology, Japan)

A8-P2.14 ⌚ 10:00–12:00 **#536 – 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 :**

A5-P2-A.1 ⌚ 10:00–12:00 **#1268 – 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)

A5-P2-A.2 ⌚ 10:00–12:00 **#65 – 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)

A5-P2-A.3 ⌚ 10:00–12:00 **#593 – 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)

A5-P2-A.4 ⌚ 10:00–12:00 **#242 – Streaming**

Audio Transformers for Online Audio Tagging

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

A5-P2-A.5 10:00–12:00 #1331 – 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)

A5-P2-A.6 10:00–12:00 #1315 – ParaCLAP – Towards a general language-audio model for computational paralinguistic tasks

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

A5-P2-A.7 10:00–12:00 #1680 – 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 :

A12-P2-B.1 10:00–12:00 #42 – 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)

A12-P2-B.2 10:00–12:00 #417 – 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)

A12-P2-B.3 10:00–12:00 #70 – 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)

A12-P2-B.4 10:00–12:00 #644 – STraDa: A Singer Traits Dataset

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

A12-P2-B.5 10:00–12:00 #978 – MaViLS, a Benchmark Dataset for Video-to-Slide Alignment, Assessing 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)

A12-P2-B.6 10:00–12:00 #1794 – 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)

A12-P2-B.7 10:00–12:00 #2273 – 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)

A12-P2-B.8 10:00–12:00 #2428 – Codec-fake: 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)

A12-P2-B.9 🕒 10:00–12:00 **#2440 – 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 :**

A12-P2-A.1 🕒 10:00–12:00 **#1292 – 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)

A12-P2-A.2 🕒 10:00–12:00 **#26 – Prompting Whisper for QA-driven Zero-shot End-to-end Spoken Language Understanding**

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

A12-P2-A.3 🕒 10:00–12:00 **#1976 – 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)

A12-P2-A.4 🕒 10:00–12:00 **#783 – 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)

A12-P2-A.5 🕒 10:00–12:00 **#840 – 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)

A12-P2-A.6 🕒 10:00–12:00 **#543 – Efficient SQA from Long Audio Contexts: A Policy-driven Approach**

Alexander Johnson (UCLA); Peter Plantinga (JPMorgan 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 :**

SS5A.1 🕒 10:00–12:00 **#1907 – 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)

SS5A.2 🕒 10:00–12:00 **#131 – 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)

SS5A.3 ⌚ 10:00–12:00 **#156 – Multimodal Fusion for Vocal Biomarkers Using Vector Cross-Attention**

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

SS5A.4 ⌚ 10:00–12:00 **#1092 – 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)

SS5A.5 ⌚ 10:00–12:00 **#1926 – Developing Multi-Disorder Voice Protocols: A team science approach involving clinical expertise, bioethics, standards, and DEI.**

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

SS5A.6 ⌚ 10:00–12:00 **#2344 – 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)

SS5A.7 ⌚ 10:00–12:00 **#1484 – 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)

SS5A.8 ⌚ 10:00–12:00 **#15 – 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)

SS5A.9 ⌚ 10:00–12:00 **#975 – Towards Intelligent Speech Assistants in Operating Rooms: A Multimodal Model for Surgical Workflow Analysis**

Kubilya 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))

SS5A.10 ⌚ 10:00–12:00 **#2224 – 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 :**

A9-O2.1 ⌚ 13:30–14:10 **#6901 – Visually grounded speech models**

David Harwath (The University of Texas at Austin)

A9-O2.2 ⌚ 14:10–14:30 **#526 – AVCap: Leveraging Audio-Visual Features as Text Tokens for Captioning**

Jongsuk Kim; Jiwon Shin; Junmo Kim (KAIST)

A9-O2.3 ⌚ 14:30–14:50 **#1918 – 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)

A9-O2.4 🕒 14:50–15:10 **#1063 – 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)

A9-O2.5 🕒 15:10–15:30 **#2509 – 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 :**

A3-O2.1 🕒 13:30–13:50 **#788 – 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); Jiaxin Ye (Fudan University); Xie Chen (Shanghai Jiaotong University); Thomas Hain (University of Sheffield)

A3-O2.2 🕒 13:50–14:10 **#97 – 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)

A3-O2.3 🕒 14:10–14:30 **#1983 – 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)

A3-O2.4 🕒 14:30–14:50 **#1227 – 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)

A3-O2.5 🕒 14:50–15:10 **#1827 – Evaluating Transformer-Enhanced Deep Reinforcement Learning for Speech Emotion Recognition**

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

A3-O2.6 🕒 15:10–15:30 **#1947 – 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 :**

A12-O2.1 ⌚ 13:30–13:50 **#2268 – Optimizing the role of human evaluation in LLM-based spoken document summarization systems**

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

A12-O2.2 ⌚ 13:50–14:10 **#2389 – Key-Element-Informed sLLM Tuning for Document Summarization**

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

A12-O2.3 ⌚ 14:10–14:30 **#349 – 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)

A12-O2.4 ⌚ 14:30–14:50 **#1428 – An End-to-End Speech Summarization Using Large Language Model**

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

A12-O2.5 ⌚ 14:50–15:10 **#2213 – Prompting Large Language Models with Audio for General-Purpose Speech Summarization**

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

A12-O2.6 ⌚ 15:10–15:30 **#2250 – 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-O2.1 ⌚ 13:30–13:50 **#2186 – Exploring the Complementary Nature of Speech and Eye Movements for Profiling Neurological Disorders**

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

A1-O2.2 ⌚ 13:50–14:10 **#604 – 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)

A1-O2.3 ⌚ 14:10–14:30 **#1616 – 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)

A1-O2.4 ⌚ 14:30–14:50 **#2531 – 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)

A1-O2.5 ⌚ 14:50–15:10 **#382 – 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)

A1-O2.6 ⌚ 15:10–15:30 **#223 – 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)

A1-O2 - Speech and Brain

ORAL  **Acesso**

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

A8-O3 - LLM in ASR

ORAL 📍 Iasso

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

A8-O3.1 ⌚ 13:30–14:10 #6802 – Development of Spoken Language Models

Hung-yi Lee (National Taiwan University)

A8-O3.2 ⌚ 14:10–14:30 #1903 – 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)

A8-O3.3 ⌚ 14:30–14:50 #571 – Speech Re-aLLM – 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.)

A8-O3.4 ⌚ 14:50–15:10 #968 – 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)

A8-O3.5 ⌚ 15:10–15:30 #987 – 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 :**

A5-O3.1 ⌚ 13:30–13:50 #405 – DiffATR: Diffusion-based Generative Modeling for Audio-Text Retrieval

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

A5-O3.2 ⌚ 13:50–14:10 #420 – 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)

A5-O3.3 ⌚ 14:10–14:30 #41 – Domain Adaptation for Contrastive Audio-Language Models

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

A5-O3.4 ⌚ 14:30–14:50 #193 – tinyCLAP: Distilling Contrastive Language-Audio Pre-trained Models

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

A5-O3.5 ⌚ 14:50–15:10 #492 – BTS: Bridging Text and Sound Modalities for Metadata-Aided Respiratory Sound Classification

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

A5-O3.6 ⌚ 15:10–15:30 #1433 – 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 :**

A7-O4.1 ⌚ 13:30–13:50 #678 – 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)

A7-O4.2 13:50–14:10 #2504 – 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, Japan); Sota Shimizu (Kobe University); Tomoki Toda (Nagoya University); Hisashi Kawai (National Institute of Information and Communications Technology, Japan)

A7-O4.3 14:10–14:30 #1720 – 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)

A7-O4.4 14:30–14:50 #33 – Singing Voice Data Scaling-up: An Introduction to ACE-Opencpop 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)

A7-O4.5 14:50–15:10 #49 – 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)

A7-O4.6 15:10–15:30 #1837 – 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 :**

A7-P1-B.1 13:30–15:30 #388 – 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)

A7-P1-B.2 13:30–15:30 #2421 – 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)

A7-P1-B.3 13:30–15:30 #1356 – 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)

A7-P1-B.4 13:30–15:30 #2343 – Wenet-Speech4TTS: 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)

A7-P1-B.5 13:30–15:30 #266 – MScene-Speech: 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)

A7-P1-B.6 🕒 13:30–15:30 **#692 – 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.)

A7-P1-B.7 🕒 13:30–15:30 **#2281 – 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)

A7-P1-B.8 🕒 13:30–15:30 **#1554 – 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 :**

A7-P1-A.1 🕒 13:30–15:30 **#2216 – GTR-Voice: Articulatory Phonetics Informed Controllable Expressive Speech Synthesis**

Zehua Kcriss Li; Meiyang Melissa Chen (University of Rochester); Yi Zhong (Independent Researcher); Pinxin Liu (University of Rochester); Zhiyao Duan (University of Rochester)

A7-P1-A.2 🕒 13:30–15:30 **#1734 – TSP-TTS: Text-based Style Predictor with Residual Vector Quantization for Expressive Text-to-Speech**

Donghyun Seong; Hoyoung Lee; Joon-Hyuk Chang (Hanyang University)

A7-P1-A.3 🕒 13:30–15:30 **#1989 – 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)

A7-P1-A.4 🕒 13:30–15:30 **#1862 – 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)

A7-P1-A.5 🕒 13:30–15:30 **#1337 – Controlling Emotion in Text-to-Speech with Natural Language Prompts**

Thomas Bott; Florian Lux; Ngoc Thang Vu (University of Stuttgart)

A7-P1-A.6 🕒 13:30–15:30 **#980 – Retrieval Augmented Generation in Prompt-based Text-to-Speech Synthesis with Context-Aware Contrastive Language-Audio Pre-training**

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

A7-P1-A.7 🕒 13:30–15:30 **#2311 – 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)

A7-P1-A.8 ⌚ 13:30–15:30 **#398 – 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)

A7-P1-A.9 ⌚ 13:30–15:30 **#1581 – 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)

A7-P1-A.10 ⌚ 13:30–15:30 **#1187 – 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 :**

A2-P1-B.1 ⌚ 13:30–15:30 **#303 – 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)

A2-P1-B.2 ⌚ 13:30–15:30 **#1393 – 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)

A2-P1-B.3 ⌚ 13:30–15:30 **#1592 – 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)

A2-P1-B.4 ⌚ 13:30–15:30 **#2240 – 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)

A2-P1-B.5 ⌚ 13:30–15:30 **#1169 – The Use of Modifiers and f0 in Remote Referential Communication with Human and Computer Partners**

Iona Gessinger (School of Computer Science, University College Dublin, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland); Bistra Andreeva (Saarland University); Benjamin R. Cowan (University College Dublin)

A2-P1 - Innovative Methods in Phonetics and Phonology

POSTER 📍 **Poster Area 1A**

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

A2-P1.1 ⌚ 13:30–15:30 **#2286 – 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 Lapiere; Gina-Anne Levow (University of Washington)

A2-P1.2 ⌚ 13:30–15:30 **#1990 – Deciphering Assamese Vowel Harmony with Featural InfoWaveGAN**

Sneha Ray Barman; Shakuntala Mahanta (Indian Institute of Technology Guwahati); Neeraj Kumar Sharma (IIT Guwahati)

A2-P1.3 ⌚ 13:30–15:30 **#318 – Phonological Feature Detection for US English using the Phonet Library**

Harsha Veena Tadavarthy; Austin Jones; Margaret E. L. Renwick (University of Georgia)

A2-P1.4 ⌚ 13:30–15:30 **#181 – K-means and hierarchical clustering of f0 contours**

Constantijn Kaland (Institute of Linguistics - University of Cologne); Jeremy Steffman (Linguistics and English Language - University of Edinburgh); Jennifer Cole (Northwestern University)

A2-P1.5 ⌚ 13:30–15:30 **#429 – 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)

A2-P1.6 ⌚ 13:30–15:30 **#1155 – Using wav2vec 2.0 for phonetic classification tasks: methodological aspects**

Lila Kim (Laboratoire de Phonétique et Phonologie); Cédric Gendrot (LPP)

A2-P1.7 ⌚ 13:30–15:30 **#357 – 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)

A2-P1.8 ⌚ 13:30–15:30 **#1269 – Speaker-Independent Acoustic-to-Articulatory Inversion through Multi-Channel Attention Discriminator**

Woo-Jin Chung (Yonsei University); Hong-Goo Kang (Yonsei University)

A2-P1.9 ⌚ 13:30–15:30 **#1208 – 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))

A2-P1.10 ⌚ 13:30–15:30 **#1517 – 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 :**

A6-P2-B.1 ⌚ 13:30–15:30 **#823 – TD-PLC: A Semantic-Aware Speech Encoding for Improved Packet Loss Concealment**

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

A6-P2-B.2 ⌚ 13:30–15:30 **#1764 – BS-PLCNet 2: Two-stage Band-split Packet Loss Concealment Network with Intra-model Knowledge Distillation**

Zihan Zhang (Northwestern Polytechnical University); Xianjun Xia (RTC Lab, ByteDance); Chuanzeng Huang (Speech, Audio and Music Intelligence (SAMI) group, ByteDance); Yijian Xiao (ByteDance); Lei Xie (NWPU)

A6-P2-B.3 ⌚ 13:30–15:30 **#1061 – On Improving Error Resilience of Neural End-to-End Speech Coders**

Kishan Gupta; Nicola Pia; Srikanth Korse; Andreas Brendel; Guillaume Fuchs; Markus Multrus (Fraunhofer IIS)

A6-P2-B.4 ⌚ 13:30–15:30 **#1072 – 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 Laboratory)

A6-P2-B.5 ⌚ 13:30–15:30 **#108 – A Low-Bitrate Neural Audio Codec Framework with Bandwidth Reduction 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)

A6-P2-B.6 ⌚ 13:30–15:30 **#2093 – Codec-Fake: Enhancing Anti-Spoofing Models Against Deepfake Audios from Codec-Based Speech Synthesis Systems**

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 :

A6-P2-A.1 ⌚ 13:30–15:30 **#2114 – RaD-Net 2: A causal two-stage repairing and denoising speech enhancement network with knowledge distillation and complex axial self-attention**

Mingshuai Liu (NWPU); Zhuangqi Chen (Bytedance); Xiaopeng Yan; Yuanjun Lv (Northwestern Polytechnical University); Xianjun Xia (RTC Lab, ByteDance); Chuanzeng Huang (Speech, Audio and Music Intelligence (SAMI) group, ByteDance); Yijian Xiao (ByteDance); Lei Xie (NWPU)

A6-P2-A.2 ⌚ 13:30–15:30 **#2244 – DNN-based monaural speech enhancement using alternate analysis windows 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)

A6-P2-A.3 ⌚ 13:30–15:30 **#1488 – Improved Remixing Process for Domain Adaptation-Based Speech Enhancement by Mitigating Data Imbalance in Signal-to-Noise Ratio**

Li Li (CyberAgent, Inc.); Shogo Seki (CyberAgent, Inc.)

A6-P2-A.4 ⌚ 13:30–15:30 **#166 – 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)

A6-P2-A.5 ⌚ 13:30–15:30 **#1069 – Improving Speech Enhancement by Integrating Inter-Channel and Band Features with Dual-branch Conformer**

Jizhen Li; Xinmeng Xu; Weiping Tu; Yuhong Yang; Rong Zhu (Wuhan University)

A6-P2-A.6 ⌚ 13:30–15:30 **#1831 – 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))

A6-P2-A.7 ⌚ 13:30–15:30 **#620 – 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)

A6-P2-A.8 ⌚ 13:30–15:30 **#129 – 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)

A6-P2-A.9 ⌚ 13:30–15:30 **#1266 – 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 :**

A4-P2.1 ⌚ 13:30–15:30 #923 – Multi-latency look-ahead for streaming speaker segmentation

Bilal Rahou (IRIT); Hervé Bredin (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France)

A4-P2.2 ⌚ 13:30–15:30 #1286 – Once more Diarization: Improving meeting transcription systems through segment-level speaker re-assignment

Christoph Boeddeker; Tobias Cord-Landwehr (Paderborn University); Reinhold Haeb-Umbach (University of Paderborn)

A4-P2.3 ⌚ 13:30–15:30 #917 – 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)

A4-P2.4 ⌚ 13:30–15:30 #1287 – Hybrid-Diarization System with Overlap Post-Processing for the DISPLACE 2024 Challenge

Gabriel Pirlogeanu; Octavian Pascu; Alexandru-Lucian Georgescu (University Politehnica of Bucharest/ Zevo-Tech); Horia Cucu (University Politehnica of Bucharest)

A4-P2.5 ⌚ 13:30–15:30 #1833 – 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)

A4-P2.6 ⌚ 13:30–15:30 #2462 – 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 (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France); Séverin Baroudi (LIS); Ricard Marxer (Université de Toulon, Aix Marseille Univ, CNRS, LIS, Toulon)

A4-P2.7 ⌚ 13:30–15:30 #1657 – 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)

A4-P2.8 ⌚ 13:30–15:30 #802 – Exploring Spoken Language Identification Strategies for Automatic Transcription of Multilingual Broadcast and Institutional Speech

Martina Valente (Almawave); Fabio Brugnara; Giovanni Morrone; Enrico Zovato; Leonardo Badino (Almawave S.p.A., Voice Engineering Lab, Italy)

A4-P2.9 ⌚ 13:30–15:30 #845 – AG-LSEC: Audio Grounded Lexical Speaker Error Correction

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

A4-P2.10 ⌚ 13:30–15:30 #1885 – 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)

A4-P2.11 ⌚ 13:30–15:30 #436 – 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)

A4-P2.12 13:30–15:30 #235 – Song Data Cleansing for End-to-End Neural Singer Diarization Using Neural Analysis and Synthesis Framework

Hokuto Munakata; Ryo Terashima; Yusuke Fujita (LY Corporation)

SS5B - Speech and Language in Health: from Remote Monitoring to Medical Conversations - 2 (Special Sessions)

POSTER 📍 Yanis Club

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

SS5B.1 13:30–15:30 #2205 – 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)

SS5B.2 13:30–15:30 #267 – 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)

SS5B.3 13:30–15:30 #1255 – 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)

SS5B.4 13:30–15:30 #2496 – 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 Leheld; Thomas Hillemacher (Klinikum Nürnberg); Tobias Bocklet (TH Nürnberg); Korbinian Riedhammer (Technische Hochschule Nürnberg Georg Simon Ohm)

SS5B.5 13:30–15:30 #1541 – 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 Ista (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)

SS5B.6 13:30–15:30 #517 – Automatic recognition and detection of aphasic natural speech

Mara Barberis; Pieter De Clercq; Bastiaan Tamm; Hugo Van hamme; Maaike Vandermosten (KU Leuven)

SS5B.7 13:30–15:30 #2183 – 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)

SS5B.8 13:30–15:30 #158 – 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)

SS5B.9 🕒 13:30–15:30 **#1390 – 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)

SS5B.10 🕒 13:30–15:30 **#744 – “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)

SS5B.11 🕒 13:30–15:30 **#1074 – 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)

SS5B.12 🕒 13:30–15:30 **#1344 – 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)

SS5B.13 🕒 13:30–15:30 **#852 – 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 :**

ST2.1 🕒 13:30–15:30 **#5003 – 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)

ST2.2 🕒 13:30–15:30 **#5007 – 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; 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 (School of Computing, Engineering and the Built Environment, Edinburgh Napier University, UK)

ST2.3 🕒 13:30–15:30 **#5008 – 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)

ST2.4 ⌚ 13:30–15:30 **#5013 – Detection of background agents speech in contact centers**

Abhishek Kumar; Srikanth Konjeti; Jithendra Vepa (Observe.AI, India)

ST2.5 ⌚ 13:30–15:30 **#5022 – The reasonable effectiveness of speaker embeddings for violence detection**

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

ST2.6 ⌚ 13:30–15:30 **#5027 – BVS: background voice suppression demo by Meeami technologies**

Nivedita Chennupati; VenkataKiran Sanniboyina; Ali Imtiaz Mohammad; Harish Rajamani (Meeami Technologies, Hyderabad, India)

ST2.7 ⌚ 13:30–15:30 **#5030 – A toolkit for joint speaker diarization and identification with application to speaker-attributed ASR**

Giovanni Morrone; Enrico Zovato; Fabio Brugnara; Enrico Sartori; Leonardo Badino (Almawave S.p.A., Voice Engineering Lab, Italy)

ST2.8 ⌚ 13:30–15:30 **#5031 – Understanding “understanding”: presenting a richly annotated multimodal corpus of dyadic interaction**

Leonie Schade; Nico Dallmann; Olcay Turk (Bielefeld University, Germany); Stefan Lazarov (Paderborn University, Germany); Petra Wagner (Bielefeld University, Germany)

ST2.9 ⌚ 13:30–15:30 **#5038 – A demonstrator for articulation-based command word recognition**

Joao Vitor Possamai de Menezes; Arne-Lukas Fietkau; Tom Diener; Steffen Kurbis; Peter Birkholz (Institute of Acoustics and Speech Communication, Technische Universität Dresden, Germany)

ST2.10 ⌚ 13:30–15:30 **#5041 – Pragmatically similar utterance finder demonstration**

Nigel G. Ward (University of Texas at El Paso, USA); Andres Segura (University of Texas at El Paso, USA)

A10-O2 - ASR and LLMs

ORAL 📍 Aegle B

📅 Tuesday 03 September 2024 ⌚ 16:00–18:00 **Session chairs :**

A10-O2.1 ⌚ 16:00–16:20 **#80 – HuBERT-EE: Early Exiting HuBERT for Efficient Speech Recognition**

Ji Won Yoon (Chung-Ang University); Beom Jun Woo; Nam Soo Kim (Seoul National University)

A10-O2.2 ⌚ 16:20–16:40 **#488 – 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)

A10-O2.3 ⌚ 16:40–17:00 **#376 – 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)

A10-O2.4 ⌚ 17:00–17:20 **#10 – MM-KWS: Multi-modal Prompts for Multilingual User-defined Keyword Spotting**

Zhiqi Ai; Zhiyong Chen; Shugong Xu (Shanghai University)

A10-O2.5 ⌚ 17:20–17:40 **#322 – 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)

A10-O2.6 🕒 17:40–18:00 **#2290 – 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 :**

A4-O3.1 🕒 16:00–16:20 **#481 – 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)

A4-O3.2 🕒 16:20–16:40 **#942 – 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)

A4-O3.3 🕒 16:40–17:00 **#1472 – 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)

A4-O3.4 🕒 17:00–17:20 **#253 – 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))

A4-O3.5 🕒 17:20–17:40 **#292 – 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)

A4-O3.6 🕒 17:40–18:00 **#24 – 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 :**

A2-O3.1 🕒 16:00–16:20 **#895 – Automatic pitch accent classification through image classification**

Na Hu (Radboud University); Hugo Schnack (Utrecht University); Amalia Arvaniti (Radboud University)

A2-O3.2 🕒 16:20–16:40 **#1909 – Form and Function in Prosodic Representation: In the Case of 'ma' in Tianjin Mandarin**

Tianqi Geng (Tianjin University); Hui Feng (Tianjin University)

A2-O3.3 🕒 16:40–17:00 **#2513 – 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)

A2-O3.4 🕒 17:00–17:20 **#289 – The prosody of the verbal prefix ge-: historical and experimental evidence**

Chiara Riegger; Tina Bögel; George Walkden (University of Konstanz)

A2-O3.5 🕒 17:20–17:40 **#2004 – Influences of Morphosyntax and Semantics on the Intonation of Mandarin Chinese Wh-indeterminates**

Hongchen Wu (Georgia Institute of Technology); Jiwon Yun (Stony Brook University)

A2-O3.6 🕒 17:40–18:00 **#2172 – Urdu Alternative Questions: A Hat Pattern**

Benazir Mumtaz (university of Konstanz); Miriam Butt (University of Konstanz)

A8-O4.5 🕒 17:20–17:40 **#1873 – 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)

A8-O4.6 🕒 17:40–18:00 **#930 – 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)

A8-O4 - Neural Network Adaptation

ORAL 📍 Iasso

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs :**

A8-O4.1 🕒 16:00–16:20 **#1105 – 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)

A8-O4.2 🕒 16:20–16:40 **#45 – 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)

A8-O4.3 🕒 16:40–17:00 **#334 – Leveraging Adapter for Parameter-Efficient ASR Encoder**

Kyuhong Shim; Jinkyu Lee; Hyunjae Kim (Qualcomm AI Research)

A8-O4.4 🕒 17:00–17:20 **#513 – Whisper Multilingual Downstream Task Tuning Using Task Vectors**

Ji-Hun Kang; Jae-Hong Lee; Mun-Hak Lee; Joon-Hyuk Chang (Hanyang University)

A5-O4 - Source Separation 1

ORAL 📍 Panacea Amphitheater

📅 Tuesday 03 September 2024 🕒 16:00–18:00 **Session chairs :**

A5-O4.1 🕒 16:00–16:20 **#327 – Noise-robust Speech Separation with Fast Generative Correction**

Helin Wang; Jesus Villalba; Laureano Moro-Velazquez; Jiarui Hai; Thomas Thebaud; Najim Dehak (Johns Hopkins University)

A5-O4.2 🕒 16:20–16:40 **#2537 – 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)

A5-O4.3 🕒 16:40–17:00 **#1136 – Unsupervised Improved MVDR Beamforming for Sound Enhancement**

Jacob Kealey (Université de Sherbrooke); John R. Hershey (Google); François Grondin (Université de Sherbrooke)

A5-O4.4 🕒 17:00–17:20 **#576 – 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)

A5-O4.5 🕒 17:20–17:40 **#1378 – 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)

A5-O4.6 🕒 17:40–18:00 **#337 – 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 :**

A7-O5.1 🕒 16:00–16:20 **#715 – Word-level Text Markup for Prosody Control in Speech Synthesis**

Yuliya Korotkova; Ilya Kalinovskiy; Tatiana Vakhrusheva (Just AI)

A7-O5.2 🕒 16:20–16:40 **#1582 – Should you use a probabilistic duration model in TTS? Probably! Especially for spontaneous speech**

Shivam Mehta (KTH Royal Institute of Technology); Harm Lameris (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm); Rajiv Punmiya (Self); Jonas Beskow (KTH Royal Institute of Technology); Éva Székely (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm); Gustav Eje Henter (KTH Royal Institute of Technology)

A7-O5.3 🕒 16:40–17:00 **#1327 – 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)

A7-O5.4 🕒 17:00–17:20 **#2055 – A Human-in-the-Loop Approach to Improving Cross-Text Prosody Transfer**

Himanshu Maurya (University of Edinburgh); Atli Sigurgeirsson (University of Edinburgh)

A7-O5.5 🕒 17:20–17:40 **#2506 – 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)

A7-O5.6 🕒 17:40–18:00 **#2133 – Multi-Modal Automatic Prosody Annotation with Contrastive Pretraining 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 :**

A13-P2-B.1 🕒 16:00–18:00 **#879 – 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)

A13-P2-B.2 🕒 16:00–18:00 **#672 – Towards Im-**

proving NAM-to-Speech Synthesis Intelligibility using Self-Supervised Speech Models

Neil Shah (IIIT Hyderabad); Shirish Karande (TCS Research); Vineet Gandhi (IIIT Hyderabad)

A13-P2-B.3 🕒 16:00–18:00 **#366 – PARAN: Variational Autoencoder-based End-to-End Articulation-to-Speech System for Speech Intelligibility**

Seyun Um; Doyeon Kim; Hong-Goo Kang (Yonsei University)

A13-P2-B.4 🕒 16:00–18:00 **#68 – 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)

A13-P2-B.5 🕒 16:00–18:00 **#1969 – 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)

A13-P2-B.6 🕒 16:00–18:00 **#578 – 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 UCLggle); Marilyn Ladewig (CPUUnlimited); Rus Heywood (Google); Jordan Green (MGH Institute of Health Professions)

A13-P2-B.7 🕒 16:00–18:00 **#1645 – 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)

A13-P2-B.8 🕒 16:00–18:00 **#995 – 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 :**

A13-P2-A.1 🕒 16:00–18:00 **#2134 – 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)

A13-P2-A.2 🕒 16:00–18:00 **#1018 – 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)

A13-P2-A.3 🕒 16:00–18:00 **#1887 – 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)

A13-P2-A.4 🕒 16:00–18:00 **#1577 – Developing vocal system impaired patient-aimed**

voice quality assessment approach using ASR representation-included multiple features

Shaoxiang 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)

A13-P2-A.5 16:00–18:00 #470 – 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)

A13-P2-A.6 16:00–18:00 #996 – 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)

A13-P2-A.7 16:00–18:00 #1318 – Multi-modal 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 :**

A8-P3.1 16:00–18:00 #2438 – 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)

A8-P3.2 16:00–18:00 #2261 – 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)

A8-P3.3 16:00–18:00 #2376 – 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)

A8-P3.4 16:00–18:00 #2392 – Learner-Voice: 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)

A8-P3.5 16:00–18:00 #2414 – 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)

A8-P3.6 16:00–18:00 #1733 – 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)

A8-P3.7 🕒 16:00–18:00 **#1820 – 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))

A8-P3.8 🕒 16:00–18:00 **#2257 – 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)

A8-P3.9 🕒 16:00–18:00 **#44 – 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)

A8-P3.10 🕒 16:00–18:00 **#1569 – 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))

A8-P3.11 🕒 16:00–18:00 **#1628 – Learning from memory-based models**

Rhiannon Mogridge (University of Sheffield); Anton Ragni (University of Sheffield)

A8-P3.12 🕒 16:00–18:00 **#1606 – 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

A6-P3-B.1 🕒 16:00–18:00 **#117 – Privacy PORCUPINE: Anonymization of Speaker Attributes Using Occurrence Normalization for Space-Filling Vector Quantization**

Mohammad Hassan Vali (Aalto University); Tom Bäckström (Aalto University)

A6-P3-B.2 🕒 16:00–18:00 **#174 – SilentCipher: Deep Audio Watermarking**

Mayank Kumar Singh (Sony Research Japan); Naoya Takahashi (Sony Research); Weihsiang Liao (Sony Group Corporation); Yuki Mitsufuji (Sony AI)

A6-P3-B.3 🕒 16:00–18:00 **#740 – 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); Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Zhao Lv (Anhui university)

A6-P3-B.4 🕒 16:00–18:00 **#31 – 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)

A6-P3-B.5 🕒 16:00–18:00 **#534 – Traceable-Speech: Towards Proactively Traceable Text-to-Speech with Watermarking**

Junzuo Zhou (Institute of Automation, Chinese Academy of Sciences); Jiangyan 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)

A6-P3-B.6 🕒 16:00–18:00 **#1164 – HarMoNet: Partial DeepFake Detection Network based on Multi-scale HarMoF0 Feature Fusion**

POSTER 📍 **Poster Area 3B**

📅 **Tuesday 03 September 2024** 🕒 **16:00–18:00** **Session chairs :**

Liwei Liu (Northwestern Polytechnical University (NPU)); Huihui Wei (Shanghai Jiao Tong University); Dongya Liu; Zhonghua Fu (Northwestern Polytechnical University (NPU))

A6-P3-B.7 🕒 16:00–18:00 **#1652 – 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)

A6-P3-B.8 🕒 16:00–18:00 **#463 – 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)

A6-P3-B.9 🕒 16:00–18:00 **#11 – 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)

A6-P3-B.10 🕒 16:00–18:00 **#1584 – 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 :**

A6-P3-A.1 🕒 16:00–18:00 **#162 – Locally Aligned Rectified Flow Model for Speech Enhancement Towards Single-Step Diffusion**

Zhengxiao Li (Tokyo Institute Technology); Nakamasa Inoue (Tokyo Institute of Technology)

A6-P3-A.2 🕒 16:00–18:00 **#494 – 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)

A6-P3-A.3 🕒 16:00–18:00 **#85 – An Analysis of the Variance of Diffusion-based Speech Enhancement**

Bunlong Lay (Universität Hamburg); Timo Gerkmann (Universität Hamburg)

A6-P3-A.4 🕒 16:00–18:00 **#701 – 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)

A6-P3-A.5 🕒 16:00–18:00 **#516 – 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)

A6-P3-A.6 🕒 16:00–18:00 **#611 – 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)

A6-P3-A.7 🕒 16:00–18:00 **#929 – 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 :**

A4-P3.1 ⌚ 16:00–18:00 **#260 – 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))

A4-P3.2 ⌚ 16:00–18:00 **#365 – Speaker Conditional Sinc-Extractor for Personal VAD**

En-Lun Yu (National Taiwan Normal University); Kuan-Hsun Ho (NTNU); Jeh-wei Hung (National Chi Nan University); Shih-Chieh Huang (Realtek Semiconductor Corp.); Berlin Chen (Department of Computer Science and Information Engineering, National Taiwan Normal University)

A4-P3.3 ⌚ 16:00–18:00 **#601 – 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)

A4-P3.4 ⌚ 16:00–18:00 **#939 – 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)

A4-P3.5 ⌚ 16:00–18:00 **#1124 – 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)

A4-P3.6 ⌚ 16:00–18:00 **#1260 – 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)

A4-P3.7 ⌚ 16:00–18:00 **#1889 – 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)

A4-P3.8 ⌚ 16:00–18:00 **#2476 – SE/BN Adapter: Parametric Efficient Domain Adaptation for Speaker Recognition**

Tianhao Wang; Lantian Li (Beijing University of Posts and Telecommunications); Dong Wang (Tsinghua University)

A4-P3.9 ⌚ 16:00–18:00 **#897 – 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)

A4-P3.10 ⌚ 16:00–18:00 **#2119 – 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)

A4-P3.11 ⌚ 16:00–18:00 **#2036 – 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-P3.12 ⌚ 16:00–18:00 **#2478 – 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 :

SS10.1 ⌚ 16:00–16:20 #2360 – 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)

SS10.2 ⌚ 16:20–16:40 #2135 – 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)

SS10.3 ⌚ 16:40–17:00 #1878 – 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)

SS10.4 ⌚ 17:00–17:20 #2291 – 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)

SS10.5 ⌚ 17:20–17:40 #2251 – 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)

SS10.6 ⌚ 17:40–18:00 #330 – 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 :

SS9.1 ⌚ 16:00–18:00 #326 – Interface Design for Self-Supervised Speech Models

Yi-Jen Shih (The University of Texas at Austin); David Harwath (The University of Texas at Austin)

SS9.2 ⌚ 16:00–18:00 #1533 – Comparing Discrete and Continuous Space LLMs for Speech Recognition

Yaoxun Xu (Tsinghua University); Shi-Xiong Zhang (Capital One); Jianwei Yu (Tencent AI lab); Zhiyong Wu (Tsinghua University); Dong Yu (Tencent AI Lab)

SS9.3 ⌚ 16:00–18:00 #1790 – 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)

SS9.4 ⌚ 16:00–18:00 #2396 – 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)

SS9.5 🕒 16:00–18:00 **#503 – 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)

SS9.6 🕒 16:00–18:00 **#1587 – 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)

SS9.7 🕒 16:00–18:00 **#1953 – 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)

SS9.8 🕒 16:00–18:00 **#479 – Exploring adaptation techniques of large speech foundation models for low-resource ASR: a case study on Northern Sámi**

Yaroslav Getman (Aalto University); Tamás Grósz (Aalto University, Finland); Katri Hiovain-Asikainen (UiT The Arctic University of Norway); Mikko Kurimo (Aalto University, Finland)

SS9.9 🕒 16:00–18:00 **#1045 – 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

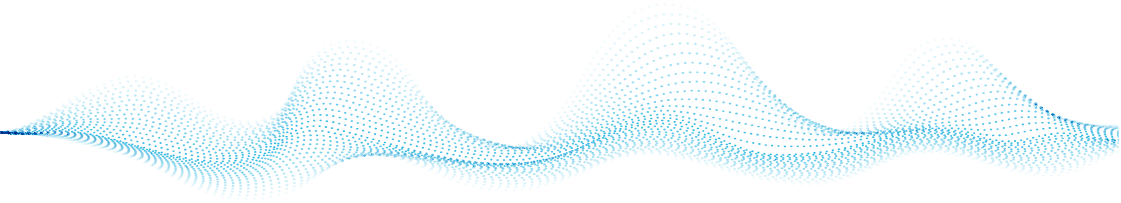
📍 **Hippocrates**

📅 **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 :

A13-O2.1 ⌚ 10:00–10:20 #1400 – 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)

A13-O2.2 ⌚ 10:20–10:40 #1737 – 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)

A13-O2.3 ⌚ 10:40–11:00 #1446 – 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)

A13-O2.4 ⌚ 11:00–11:20 #2288 – Analyzing

Multimodal Features of Spontaneous Voice Assistant Commands for Mild Cognitive Impairment Detection

Nana Lin; Youxiang Zhu; Xiaohui Liang (University of Massachusetts Boston); John A. Batsis; Caroline Summerour (University of North Carolina)

A13-O2.5 ⌚ 11:20–11:40 #2137 – Prosody-Driven Privacy-Preserving Dementia Detection

Dominika Woszczyk; Ranya Aloufi; Soteris Demetriou (Imperial College London)

A13-O2.6 ⌚ 11:40–12:00 #1122 – 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 :

A11-O2.1 ⌚ 10:00–10:20 #2352 – Autoregressive cross-interlocutor attention scores meaningfully capture conversational dynamics

Matthew McNeill (CUNY Graduate Center); Rivka Levitan (City university of new york)

A11-O2.2 ⌚ 10:20–10:40 #2402 – ConvCache: 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)

A11-O2.3 ⌚ 10:40–11:00 #1082 – Joint Learning of Context and Feedback Embeddings in

Spoken Dialogue

Livia Qian (KTH Royal Institute of Technology); Gabriel Skantze (KTH)

A11-O2.4 🕒 11:00–11:20 **#1700 – 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)

A11-O2.5 🕒 11:20–11:40 **#1008 – Contextual Interactive Evaluation of TTS Models in Dialogue Systems**

Siyang Wang (KTH Royal Institute of Technology, Stockholm); Éva Székely; Joakim Gustafson (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm)

A11-O2.6 🕒 11:40–12:00 **#1514 – 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 :**

A9-O3.1 🕒 10:00–10:40 **#6902 – Novel architecture for ASR**

Rohit Prabhavalkar (Google)

A9-O3.2 🕒 10:40–11:00 **#258 – Efficient and Robust Long-Form Speech Recognition with Hybrid H3-Conformer**

Tomoki Honda; Shinsuke Sakai; Tatsuya Kawahara (Kyoto University)

A9-O3.3 🕒 11:00–11:20 **#702 – 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)

A9-O3.4 🕒 11:20–11:40 **#574 – Quantifying Unintended Memorization in BEST-RQ ASR Encoders**

Virat Shejwalkar; Om Thakkar (Google); Arun Narayanan (Google Inc.)

A9-O3.5 🕒 11:40–12:00 **#569 – SWAN: Sub-Word 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); Raghuvier 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 :**

A6-O3.1 🕒 10:00–10:20 **#247 – 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)

A6-O3.2 🕒 10:20–10:40 **#81 – 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)

A6-O3.3 🕒 10:40–11:00 **#2165 – Robust spread spectrum speech watermarking us-**

ing linear prediction and deep spectral shaping

David Looney (Pindrop); Nikolay D. Gaubitch (Pindrop)

A6-O3.4 🕒 11:00–11:20 **#698 – RawBMamba: End-to-End Bidirectional State Space Model for Audio Deepfake Detection**

Yujie Chen (Anhui Univesity); Jianguan 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)

A6-O3.5 🕒 11:20–11:40 **#1258 – 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)

A6-O3.6 🕒 11:40–12:00 **#458 – 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 :**

A3-O3.1 🕒 10:00–10:40 **#6301 – Automatic Emotion Detection/Recognition**

Carlos Busso (University of Texas at Dallas)

A3-O3.2 🕒 10:40–11:00 **#280 – ExHuBERT: Enhancing HuBERT Through Block Ex-**

tension and Fine-Tuning on 37 Emotion Datasets

Shahin Amiriparian (Technical University of Munich); Filip Packań; Maurice Gerczuk (University of Augsburg); Björn W. Schuller (Imperial College London)

A3-O3.3 🕒 11:00–11:20 **#1430 – 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)

A3-O3.4 🕒 11:20–11:40 **#651 – DropFormer: A Dynamic Noise-Dropping Transformer for Speech Emotion Recognition**

Jialong Mai; Xiaofen Xing; Weidong Chen; Xiangmin Xu (South China University of Technology)

A3-O3.5 🕒 11:40–12:00 **#2282 – 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 📍 Acceso

📅 Wednesday 04 September 2024 🕒 10:00–12:00 **Session chairs :**

A4-O4.1 🕒 10:00–10:20 **#362 – 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)

A4-O4.2 🕒 10:20–10:40 **#486 – 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)

Yu Tsao (Academia Sinica)

A4-O4.3 ⌚ 10:40–11:00 **#1630 – 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)

A4-O4.4 ⌚ 11:00–11:20 **#2206 – 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)

A4-O4.5 ⌚ 11:20–11:40 **#295 – 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)

A4-O4.6 ⌚ 11:40–12:00 **#1515 – 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 :**

A5-O5.1 ⌚ 10:00–10:40 **#6503 – Neural Speech Assessment Metrics**

A5-O5.2 ⌚ 10:40–11:00 **#1243 – Embedding Learning for Preference-based Speech Quality Assessment**

ChengHung Hu; Yusuke Yasuda; Tomoki Toda (Nagoya University)

A5-O5.3 ⌚ 11:00–11:20 **#1967 – 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)

A5-O5.4 ⌚ 11:20–11:40 **#1778 – 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)

A5-O5.5 ⌚ 11:40–12:00 **#2527 – 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 :**

A10-P1.1 ⌚ 10:00–12:00 **#1895 – Spontaneous Speech-Based Suicide Risk Detection Using Whisper and Large Language Models**

Ziyun Cui; Chang Lei (Tsinghua University); Wen Wu (University of Cambridge); Yanan Duan (Tsinghua University); Diyang Qu; Ji Wu; Runsen Chen; Chao Zhang (Tsinghua University)

A10-P1.2 ⌚ 10:00–12:00 **#2181 – Spoken Word2Vec: Learning Skipgram Embeddings from Speech**

Mohammad Amaan Sayeed (MBZUAI); Hanan Aldarmaki (MBZUAI)

A10-P1.3 ⌚ 10:00–12:00 **#212 – 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)

A10-P1.4 ⌚ 10:00–12:00 **#2550 – LLM-Driven Multimodal Opinion Expression Identification**

Bonian 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)

A10-P1.5 ⌚ 10:00–12:00 **#2497 – 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)

A10-P1.6 ⌚ 10:00–12:00 **#1595 – 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 :**

A1-P1-B.1 ⌚ 10:00–12:00 **#1001 – Behavioral evidence for higher speech rate conver-**

gence 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)

A1-P1-B.2 ⌚ 10:00–12:00 **#1598 – 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)

A1-P1-B.3 ⌚ 10:00–12:00 **#1662 – 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)

A1-P1-B.4 ⌚ 10:00–12:00 **#1083 – What if HAL breathed? Enhancing Empathy in Human-AI Interactions with Breathing Speech Synthesis**

Nicolò Loddo; Francisca Pessanha; Almila Akdag (Utrecht University)

A1-P1-B.5 ⌚ 10:00–12:00 **#746 – 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 :**

A1-P1-A.1 ⌚ 10:00–12:00 **#646 – 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)

A1-P1-A.2 10:00–12:00 **#135** – **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)

A1-P1-A.3 10:00–12:00 **#2263** – **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)

A1-P1-A.4 10:00–12:00 **#1505** – **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)

A1-P1-A.5 10:00–12:00 **#1005** – **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)

A1-P1-A.6 10:00–12:00 **#1404** – **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 :**

A7-P2-B.1 10:00–12:00 **#313** – **A Language Modeling Approach to Diacritic-Free Hebrew TTS**

Amit Roth (The Hebrew University of Jerusalem); Arnon Turetzy (Hebrew University of Jerusalem); Yossi Adi (The Hebrew University of Jerusalem)

A7-P2-B.2 10:00–12:00 **#533** – **Exploring the Benefits of Tokenization of Discrete Acoustic Units**

Avihu Dekel (IBM Research); Raul Fernandez (IBM Research)

A7-P2-B.3 10:00–12:00 **#949** – **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)

A7-P2-B.4 10:00–12:00 **#708** – **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)

A7-P2-B.5 10:00–12:00 **#342** – **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.)

A7-P2-B.6 10:00–12:00 **#19** – **G2PA: G2P with Aligned Audio for Mandarin Chinese**

Xingxing Yang (HKUST)

A7-P2-B.7 ⌚ 10:00–12:00 **#66 – Learning Pronunciation from Other Accents via Pronunciation Knowledge Transfer**

Siqi Sun (The University of Edinburgh); Korin Richmond (University of Edinburgh)

A7-P2-B.8 ⌚ 10:00–12:00 **#1237 – Positional Description for Numerical Normalization**

Deepanshu Gupta (Apple); Javier Latorre (Apple)

A7-P2-B.9 ⌚ 10:00–12:00 **#1565 – 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.4 ⌚ 10:00–12:00 **#972 – 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)

A7-P2-A.5 ⌚ 10:00–12:00 **#771 – Pre-training Neural Transducer-based Streaming Voice Conversion for Faster Convergence and Alignment-free Training**

Hiroki Kanagawa; Takafumi Moriya; Yusuke Ijima (NTT Corporation)

A7-P2-A - Speech Synthesis: Voice Conversion 2

POSTER 📍 Poster Area 4A

📅 Wednesday 04 September 2024 ⌚ 10:00–12:00 **Session chairs :**

A7-P2-A.1 ⌚ 10:00–12:00 **#2091 – Improvement Speaker Similarity for Zero-Shot Any-to-Any Voice Conversion of Whispered and Regular Speech**

Aleksei Gusev (FluentaAI); Anastasia Avdeeva (FluentaAI)

A7-P2-A.2 ⌚ 10:00–12:00 **#539 – Utilizing Adaptive Global Response Normalization and Cluster-Based Pseudo Labels for Zero-Shot Voice Conversion**

Ji Sub Um (KAIST); Hoirin Kim (KAIST)

A7-P2-A.3 ⌚ 10:00–12:00 **#2362 – 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)

A7-P2-A.6 ⌚ 10:00–12:00 **#710 – 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)

A7-P2-A.7 ⌚ 10:00–12:00 **#207 – Disentangling prosody and timbre embeddings via voice conversion**

Nicolas Gengembre; Olivier Le Blouch (Orange Labs); Cédric Gendrot (LPP)

A7-P2-A.8 ⌚ 10:00–12:00 **#250 – 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 :

A8-P4.1 🕒 10:00–12:00 #1153 – 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)

A8-P4.2 🕒 10:00–12:00 #2187 – 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)

A8-P4.3 🕒 10:00–12:00 #2188 – 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)

A8-P4.4 🕒 10:00–12:00 #1824 – LASER: Learning by Aligning Self-supervised Representations of Speech for Improving Content-related Tasks

Amit Meghanani (University of Sheffield); Thomas Hain (University of Sheffield)

A8-P4.5 🕒 10:00–12:00 #858 – Self-Train Before You Transcribe

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

A8-P4.6 🕒 10:00–12:00 #136 – Unsupervised Online Continual Learning for Automatic Speech Recognition

Steven Vander Eeckt (KU Leuven); Hugo Van hamme (KU Leuven)

A8-P4.7 🕒 10:00–12:00 #270 – Dual-path Adaptation of Pretrained Feature Extraction Module for Robust Automatic Speech Recognition

Hao Shi (Kyoto University); Tatsuya Kawahara (Kyoto University)

A8-P4.8 🕒 10:00–12:00 #1542 – Hierarchical Multi-Task Learning with CTC and Recursive Operation

Nahomi Kusunoki; Yosuke Higuchi; Tetsuji Ogawa; Tetsunori Kobayashi (Waseda University)

A8-P4.9 🕒 10:00–12:00 #1776 – 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)

A8-P4.10 🕒 10:00–12:00 #2323 – 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)

A8-P4.11 🕒 10:00–12:00 #1621 – 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)

A8-P4.12 🕒 10:00–12:00 #1434 – Speaker Personalization for Automatic Speech Recognition using Weight-Decomposed Low-Rank Adaptation

George Joseph (Samsung); Arun Baby (Samsung Research, Bangalore)

A8-P4.13 🕒 10:00–12:00 #1813 – 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)

A8-P4.14 🕒 10:00–12:00 **#1403 – 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)

A8-P4.15 🕒 10:00–12:00 **#163 – 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 :**

A12-P4.1 🕒 10:00–12:00 **#1979 – 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)

A12-P4.2 🕒 10:00–12:00 **#989 – 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)

A12-P4.3 🕒 10:00–12:00 **#1471 – 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)

A12-P4.4 🕒 10:00–12:00 **#1772 – Prompting Large Language Models with Mispronunciation Detection and Diagnosis Abilities**

Minglin Wu; Jing Xu; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

A12-P4.5 🕒 10:00–12:00 **#1583 – Acceleration of Posteriorgram-based DTW by Distilling the Class-to-class Distances Encoded in the Classifier Used to Calculate Posteriors**

Haitong Sun; Jaehyun Choi (The University of Tokyo); Nobuaki Minematsu (Graduate School of Engineering, The University of Tokyo, Japan); Daisuke Saito (The University of Tokyo)

A12-P4.6 🕒 10:00–12:00 **#1672 – 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 (IIT Delhi)

A12-P4.7 🕒 10:00–12:00 **#777 – Transferable speech-to-text large language model alignment module**

Boyong Wu (Cloudwalk Technology); Chao Yan (Cloudwalk Technology); Haoran Pu (Cloudwalk Technology)

A12-P4.8 🕒 10:00–12:00 **#389 – 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 :**

SS1.1 🕒 10:00–12:00 **#1717 – 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)

SS1.2 🕒 10:00–12:00 **#1982 – 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)

SS1.3 🕒 10:00–12:00 **#1854 – 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))

SS1.4 🕒 10:00–12:00 **#1921 – 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)

SS1.5 🕒 10:00–12:00 **#1132 – 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)

SS1.6 🕒 10:00–12:00 **#1543 – An inclusive approach to creating a palette of synthetic voices for gender diversity**

Éva Székely (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm); Maxwell Hope (University of Delaware)

SS1.7 🕒 10:00–12:00 **#2269 – 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)

SS1.8 🕒 10:00–12:00 **#544 – Voice Quality Variation in AAE: An Additional Challenge for Addressing Bias in ASR Models?**

Li-Fang Lai (Pomona College); Nicole Holliday (Pomona College)

SS1.9 🕒 10:00–12:00 **#1177 – 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 National de l'Audiovisuel); Lucas Ondel-Yang (LISN, CNRS); Albert Rilliard (Université Paris Saclay, CNRS, LISN); Simon Devauchelle (Université Paris Saclay)

SS1.10 🕒 10:00–12:00 **#2209 – 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 :

A1-O3.1 🕒 13:30–13:50 **#2191 – 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)

A1-O3.2 🕒 13:50–14:10 **#2415 – 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)

A1-O3.3 🕒 14:10–14:30 **#1970 – Measurement and simulation of pressure losses due to airflow in vocal tract models**

Peter Birkholz (TU Dresden); Patrick Häsner (TU Dresden)

A1-O3.4 🕒 14:30–14:50 **#1637 – On The Performance of EMA-synchronized Speech and Stand-alone Speech in Acoustic-to-articulatory Inversion**

Qiang Fang (Chinese Academy of Social Sciences)

A1-O3.5 🕒 14:50–15:10 **#1835 – 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)

A1-O3.6 🕒 15:10–15:30 **#1299 – 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 :**

A9-O4.1 🕒 13:30–13:50 **#2499 – 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)

A9-O4.2 🕒 13:50–14:10 **#1829 – 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)

A9-O4.3 🕒 14:10–14:30 **#385 – 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)

A9-O4.4 🕒 14:30–14:50 **#1605 – 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)

A9-O4.5 🕒 14:50–15:10 **#1449 – Transformer-based Model for ASR N-Best Rescoring and Rewriting**

Iwen E Kang; Christophe Van Gysel; Man-Hung Siu (Apple)

A9-O4.6 🕒 15:10–15:30 **#148 – 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 :**

A6-O4.1 🕒 13:30–13:50 **#2427 – 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)

A6-O4.2 ⌚ 13:50–14:10 **#2124 – 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)

A6-O4.3 ⌚ 14:10–14:30 **#545 – 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)

A6-O4.4 ⌚ 14:30–14:50 **#669 – DeFTAN-AA: Array Geometry Agnostic Multichannel Speech Enhancement**

Dongheon Lee (KAIST); Jung-Woo Choi (KAIST)

A6-O4.5 ⌚ 14:50–15:10 **#4 – SA-MF: A Novel Self-Attention Mechanism for Multifeature Fusion in Speech Enhancement Networks**

Ruizhe Wang (Harbin institute of technology)

A6-O4.6 ⌚ 15:10–15:30 **#801 – 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 :**

A2-O4.1 ⌚ 13:30–13:50 **#1731 – Frication noise features of Polish voiceless dental fricative and affricate produced by children with and without speech disorder**

Zuzanna Miodonska; Michal Kręćichwost (Silesian University of Technology); Ewa Kwaśniok (Medical Facility "Therapy" - Center for Health and Human Development); Agata Sage; Pawel Badura (Silesian University of Technology)

A2-O4.2 ⌚ 13:50–14:10 **#666 – Key Acoustic Cues for the Realization of Metrical Prominence in Tone Languages: A Cross-Dialect Study**

Yiyang Hu (Tianjin University); Hui Feng (Tianjin University)

A2-O4.3 ⌚ 14:10–14:30 **#1184 – Revisiting Pitch Jumps: F0 Ratio in Seoul Korean**

Michaela Watkins; Paul Boersma; Silke Hamann (University of Amsterdam)

A2-O4.4 ⌚ 14:30–14:50 **#525 – Aerodynamics of Sakata labial-velar oral stops**

Lorenzo Maselli (Universiteit Gent, Université de Mons); Véronique Delvaux (UMONS)

A2-O4.5 ⌚ 14:50–15:10 **#1216 – 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)

A2-O4.6 ⌚ 15:10–15:30 **#2247 – 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 :**

A8-O5.1 ⌚ 13:30–13:50 **#577 – Contemplative Mechanism for Speech Recognition: Speech Encoders can Think**

Tien-Ju Yang (Google); Andrew Rosenberg (Google LLC); Bhuvana Ramabhadran (Google)

A8-O5.2 ⌚ 13:50–14:10 **#40 – 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)

A8-O5.3 ⌚ 14:10–14:30 **#442 – 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)

A8-O5.4 ⌚ 14:30–14:50 **#505 – RepCNN: Micro-sized, Mighty Models for Wakeword Detection**

Arnav Kundu (Apple); Prateeth Nayak (Apple Inc.); Priyanka Padmanabhan; Devang Naik (Apple)

A8-O5.5 ⌚ 14:50–15:10 **#445 – Conformer without Convolutions**

Matthijs Van keirsbilck (NVIDIA Research); Alexander Keller (NVIDIA)

A8-O5.6 ⌚ 15:10–15:30 **#500 – 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 📍 IASO

📅 Wednesday 04 September 2024 ⌚ 13:30–15:30 **Session chairs :**

A4-O5.1 ⌚ 13:30–13:50 **#2058 – Challenging margin-based speaker embedding extrac-**

tors by using the variational information bottleneck

Themos Stafylakis (Omilia - Conversational Intelligence); Anna Silnova; Johan Rohdin; Oldřich Plchot; Lukáš Burget (Brno University of Technology)

A4-O5.2 ⌚ 13:50–14:10 **#1800 – 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)

A4-O5.3 ⌚ 14:10–14:30 **#1011 – 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)

A4-O5.4 ⌚ 14:30–14:50 **#2116 – 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.)

A4-O5.5 ⌚ 14:50–15:10 **#1354 – 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)

A4-O5.6 ⌚ 15:10–15:30 **#742 – 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 :**

A5-O6.1 🕒 13:30–14:10 **#6501 – Toward speech and audio foundation models**

Shinji Watanabe (Carnegie Mellon University)

A5-O6.2 🕒 14:10–14:30 **#51 – 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)

A5-O6.3 🕒 14:30–14:50 **#953 – Gender and Language Identification in Multilingual Models of Speech: Exploring the Genericity and Robustness of Speech Representations**

Séverine Guillaume (LACITO-CNRS); Maxime Fily (LLF); Alexis Michaud (LACITO-CNRS); Guillaume Wisniewski (Université Paris Cité and LLF)

A5-O6.4 🕒 14:50–15:10 **#1156 – Neural Compression Augmentation for Contrastive Audio Representation Learning**

Zhaoyu Wang (Imperial College London); Haohe Liu (University of Surrey); Harry Coppock; Björn Schuller (Imperial College London); Mark D. Plumbley (University of Surrey)

A5-O6.5 🕒 15:10–15:30 **#2400 – 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 :**

A11-P1-B.1 🕒 13:30–15:30 **#225 – 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)

A11-P1-B.2 🕒 13:30–15:30 **#2381 – 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)

A11-P1-B.3 🕒 13:30–15:30 **#1163 – 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)

A11-P1-B.4 🕒 13:30–15:30 **#1892 – 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)

A11-P1-B.5 🕒 13:30–15:30 **#2523 – 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.)

A11-P1-B.6 🕒 13:30–15:30 **#1168 – Uh, um**

and mh: Are filled pauses prone to conversational converge?

Mathilde Hutin (FNRS, Université Catholique de Louvain); Junfei Hu; Liesbeth Degand (UCLouvain / FNRS)

A11-P1-B.7 ⌚ 13:30–15:30 **#67 – Investigation of look-ahead techniques to improve response time in spoken dialogue system**

Masaya Ohagi; Tomoya Mizumoto; Katsumasa Yoshikawa (SB Intuitions)

A11-P1-A - Spoken Language Understanding

POSTER 📍 **Poster Area 3A**

📅 **Wednesday 04 September 2024** ⌚ **13:30–15:30** **Session chairs :**

A11-P1-A.1 ⌚ 13:30–15:30 **#1911 – Towards Unified Evaluation of Continual Learning in Spoken Language Understanding**

Muqiao Yang; Xiang Li (Carnegie Mellon University); Umberto Cappellazzo (University of Trento); Shinji Watanabe; Bhiksha Raj (Carnegie Mellon University)

A11-P1-A.2 ⌚ 13:30–15:30 **#1780 – 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)

A11-P1-A.3 ⌚ 13:30–15:30 **#1900 – An Uyghur Extension to the MASSIVE Multi-lingual Spoken Language Understanding Corpus with Comprehensive Evaluations**

Ainikaerjiang Aimaiti; Di Wu; Liting Jiang; Gulinigeer Abdouwalli; Hao Huang; Wushour Silamu (xinjiang university)

A11-P1-A.4 ⌚ 13:30–15:30 **#87 – 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 Haw-

ghorst; Ann-Kathrin Schill; Angelo Boutalidakis (University of Passau); Lorenz Graf-Vlachy (TU Dortmund); Andreas König (University of Passau); Björn W. Schuller (Imperial College London)

A11-P1-A.5 ⌚ 13:30–15:30 **#2276 – Unified Framework for Spoken Language Understanding and Summarization in Task-Based Human Dialog processing**

Eunice Akani (Aix Marseille University, Enedis); Frédéric Bechet (Aix Marseille University); Benoît Favre (Lab. Informatique et Systèmes / Aix-Marseille University / CNRS); Romain Gemignani (ENEDIS)

A11-P1-A.6 ⌚ 13:30–15:30 **#1351 – 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.7 ⌚ 13:30–15:30 **#882 – 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 :**

A3-P2-B.1 ⌚ 13:30–15:30 **#119 – 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)

A3-P2-B.2 ⌚ 13:30–15:30 **#471 – 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)

A3-P2-B.3 13:30–15:30 **#2307 – 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)

A3-P2-B.4 13:30–15:30 **#2525 – 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)

A3-P2-B.5 13:30–15:30 **#461 – 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)

A3-P2-B.6 13:30–15:30 **#977 – 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)

A3-P2-B.7 13:30–15:30 **#1273 – 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 9 Poster Area 1A

📅 Wednesday 04 September 2024 13:30–15:30 **Session chairs :**

A3-P2.1 13:30–15:30 **#121 – 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)

A3-P2.2 13:30–15:30 **#546 – 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)

A3-P2.3 13:30–15:30 **#173 – 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)

A3-P2.4 13:30–15:30 **#268 – Acoustical analysis of the initial phones in speech-laugh**

Ryo Setoguchi (Chiba institute of technology); Yoshiko Arimoto (Chiba Institute of Technology)

A3-P2.5 13:30–15:30 **#1643 – 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)

A3-P2.6 13:30–15:30 **#2518 – 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 :

A7-P3-B.1 ⌚ 13:30–15:30 #508 – 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)

A7-P3-B.2 ⌚ 13:30–15:30 #335 – Improving Robustness of LLM-based Speech Synthesis by Learning Monotonic Alignment

Paarth Neekhara (NVIDIA); Shehzeen Hussain (UCSD); Subhankar Ghosh; Jason Li; Boris Ginsburg (NVIDIA)

A7-P3-B.3 ⌚ 13:30–15:30 #1913 – 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)

A7-P3-B.4 ⌚ 13:30–15:30 #2320 – 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)

A7-P3-B.5 ⌚ 13:30–15:30 #359 – 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)

A7-P3-B.6 ⌚ 13:30–15:30 #465 – 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)

A7-P3-B.7 ⌚ 13:30–15:30 #462 – 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 :

A7-P3-A.1 ⌚ 13:30–15:30 #1160 – Highly Intelligent Speaker-Independent Articulatory Synthesis

Charles McGhee; Kate Knill; Mark Gales (University of Cambridge)

A7-P3-A.2 ⌚ 13:30–15:30 #208 – An Attribute Interpolation Method in Speech Synthesis by Model Merging

Masato Murata; Koichi Miyazaki; Tomoki Koriyama (CyberAgent, Inc.)

A7-P3-A.3 ⌚ 13:30–15:30 #2074 – 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)

A7-P3-A.4 ⌚ 13:30–15:30 #1559 – 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)

A7-P3-A.5 13:30–15:30 **#1192 – 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)

A7-P3-A.6 13:30–15:30 **#608 – ClariTTS: Feature-ratio Normalization and Duration Stabilization for Code-mixed Multi-speaker Speech Synthesis**

Changhwan Kim (Hyundai Motor Group)

A7-P3-A.7 13:30–15:30 **#1313 – 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)

A7-P3-A.8 13:30–15:30 **#562 – 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)

A7-P3-A.9 13:30–15:30 **#2087 – 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 :**

A5-P3-B.1 13:30–15:30 **#1333 – 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)

A5-P3-B.2 13:30–15:30 **#636 – 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)

A5-P3-B.3 13:30–15:30 **#632 – 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)

A5-P3-B.4 13:30–15:30 **#1071 – 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 Pappakostas (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)

A5-P3-B.5 13:30–15:30 **#1451 – 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)

A5-P3-B.6 13:30–15:30 **#1456 – Retrieval-Augmented Classifier Guidance for Audio Generation**

Ho-Young Choi; Won-Gook Choi; Joon-Hyuk Chang (Hanyang University)

A5-P3-B.7 ⌚ 13:30–15:30 **#38 – Efficient Fine-tuning of Audio Spectrogram Transformers via Soft Mixture of Adapters**

Umberto Cappellazzo (University of Trento); Daniele Falavigna; Alessio Brutti (FBK)

A5-P3-B.8 ⌚ 13:30–15:30 **#325 – 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 :**

A5-P3-A.1 ⌚ 13:30–15:30 **#2081 – 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)

A5-P3-A.2 ⌚ 13:30–15:30 **#2053 – 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)

A5-P3-A.3 ⌚ 13:30–15:30 **#1396 – 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)

A5-P3-A.4 ⌚ 13:30–15:30 **#141 – 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)

A5-P3-A.5 ⌚ 13:30–15:30 **#1295 – Design of Feedback Active Noise Cancellation Filter Using Nested Recurrent Neural Networks**

Alireza Bayestehtashk; Amit Kumar (Skyworks Inc); Mike Wurtz (Skyworks Inc.)

A5-P3-A.6 ⌚ 13:30–15:30 **#2185 – Neuromorphic Keyword Spotting with Pulse Density Modulation MEMS Microphones**

Sidi Yaya Arnaud Yarga (Université de Sherbrooke); Sean U N Wood (Université de Sherbrooke)

A5-P3-A.7 ⌚ 13:30–15:30 **#1951 – 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 :**

SS3.1 ⌚ 13:30–15:30 **#2340 – Information-theoretic hypothesis generation of relative cue weighting for the voicing contrast**

Annika Heuser (University of Pennsylvania); Jianjing Kuang (University of Pennsylvania)

SS3.2 ⌚ 13:30–15:30 **#1041 – 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)

SS3.3 13:30–15:30 #2192 – 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)

SS3.4 13:30–15:30 #1473 – A Pilot Study of GSLM-based Simulation of Foreign Accentuation Only Using Native Speech Corpora

Kentaro Onda; Joonyong Park (The University of Tokyo); Nobuaki Minematsu (Graduate School of Engineering, The University of Tokyo, Japan); Daisuke Saito (The University of Tokyo)

SS3.5 13:30–15:30 #394 – 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)

SS3.6 13:30–15:30 #822 – 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)

SS3.7 13:30–15:30 #2102 – 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)

SS3.8 13:30–15:30 #1051 – Spoken-Term Discovery using Discrete Speech Units

Benjamin van Niekerk (Stellenbosch University); Julian Zaïdi; Marc-André Carbonneau (Ubisoft); Herman Kamper (Stellenbosch University)

SS3.9 13:30–15:30 #1054 – 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 :

ST3.1 13:30–15:30 #5006 – 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)

ST3.2 13:30–15:30 #5011 – VoxMed: one-step respiratory disease classifier using digital stethoscope sounds

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

ST3.3 13:30–15:30 #5015 – AVR: synergizing foundation models for audio-visual humor detection

Sarthak Sharma; Orchid Chetia Phukan; Drishti Singh; Arun Balaji Buduru (IIIT-Delhi, India); Rajesh Sharma (IIIT-Delhi, India; University of Tartu, Estonia)

ST3.4 13:30–15:30 #5025 – CreakVC: a voice conversion tool for modulating creaky voice

Harm Lameris; Joakim Gustafson; Éva Székely (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm)

ST3.5 ⌚ 13:30–15:30 **#5028 – 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; Berlin Chen (Department of Computer Science and Information Engineering, National Taiwan Normal University)

ST3.6 ⌚ 13:30–15:30 **#5014 – Leveraging large language models for post-transcription correction in contact centers**

Bramhendra Koilakuntla; Prajesh Rana; Paras Ahuja; Srikanth Konjeti; Jithendra Vepa (Observe.AI, India)

ST3.7 ⌚ 13:30–15:30 **#5026 – ATTEST: an analytics tool for the testing and evaluation of speech technologies**

Dmitrii Obukhov; Marcel de Korte; Andrey Adaschik (Constructor Technology, Schaffhausen, Switzerland)

ST3.8 ⌚ 13:30–15:30 **#5029 – 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 (School of Computer Science, University College Dublin, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland); Julie Carson-Berndsen (School of Computer Science, University College Dublin, Ireland; SFI Centre for Research Training in Digitally-Enhanced Reality, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland)

ST3.9 ⌚ 13:30–15:30 **#5032 – Gryannote open-source speaker diarization labeling tool**

Clément Pages (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France); Hervé Bredin (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France)

ST3.10 ⌚ 13:30–15:30 **#5043 – Real-time scheme for rapid extraction of speaker embeddings in challenging recording conditions**

Kai Liu; Ziqing Du; Zhou Huan; Xucheng Wan; Najun Zheng (IT Innovation and Research Center, Huawei Technologies)

A13-O3 - Dysarthric Speech Assessment

ORAL 📍 Panacea Amphitheater

📅 Wednesday 04 September 2024 ⌚ 16:00–18:00 **Session chairs :**

A13-O3.1 ⌚ 16:00–16:20 **#1939 – Automatic Assessment of Dysarthria using Speech and synthetically generated Electroglottograph signal**

Fathima Zaheera (National Institute of Technology Patna); Supritha Shetty (Indian Institute of Information Technology, Dharwad); Gayadhar Pradhan (NIT Patna); Deepak K T (IIIT-Dharwad)

A13-O3.2 ⌚ 16:20–16:40 **#1597 – CDSD: 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)

A13-O3.3 ⌚ 16:40–17:00 **#1175 – 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 Venegalil (National Institute of Mental Health and Neurosciences); Yamini Belur; Atchayaram Nalini (NIMHANS); Prasanta Kumar Ghosh (Indian Institute of Science (IISc), Bangalore)

A13-O3.4 ⌚ 17:00–17:20 **#1281 – Beyond Binary: Multiclass Paraphasia Detection with Generative Pretrained Transformers and End-to-End Models**

Matthew Perez; Aneasha Sampath; Minxue Niu; Emily Mower Provost (University of Michigan)

A13-O3.5 ⌚ 17:20–17:40 **#1144 – 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)

A13-O3.6 🕒 17:40–18:00 **#1852 – CoLM-DSR: Leveraging Neural 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 :**

A10-O3.1 🕒 16:00–16:20 **#1078 – Optimizing Automatic Speech Assessment: W-RankSim Regularization and Hybrid Feature Fusion Strategies**

Chung-Wen Wu (National Taiwan Normal University); Berlin Chen (Department of Computer Science and Information Engineering, National Taiwan Normal University)

A10-O3.2 🕒 16:20–16:40 **#1142 – Context-Aware Speech Recognition Using Prompts for Language Learners**

Jian Cheng (Google)

A10-O3.3 🕒 16:40–17:00 **#1639 – 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)

A10-O3.4 🕒 17:00–17:20 **#760 – Oversampling, Augmentation and Curriculum Learning for Speaking Assessment with Limited Training Data**

Tin Mei Lun; Ekaterina Voskoboinik; Ragheb Al-Ghezi (Aalto University); Tamás Grósz; Mikko Kurimo (Aalto University, Finland)

A10-O3.5 🕒 17:20–17:40 **#1373 – Analysis and Visualization of Directional Diversity in Listening Fluency of World Englishes Speakers in the Framework of Mutual Shadowing**

Yu Tomita; Yingxiang Gao (The University of Tokyo); Nobuaki Minematsu (Graduate School of Engineering, The University of Tokyo, Japan); Noriko Nakanishi (Kobe Gakuin University); Daisuke Saito (The University of Tokyo)

A10-O3.6 🕒 17:40–18:00 **#552 – 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 📍 1asso

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

A3-O4.1 🕒 16:00–16:20 **#482 – 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)

A3-O4.2 🕒 16:20–16:40 **#1735 – 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)

A3-O4.3 🕒 16:40–17:00 **#2350 – 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)

A3-O4.4 🕒 17:00–17:20 **#98 – Enrolment-based personalisation for improving individual-level fairness in speech emotion recognition**

Andreas Triantafyllopoulos (Technical University of Munich); Björn W. Schuller (Imperial College London)

A3-O4.5 🕒 17:20–17:40 **#1218 – 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)

A3-O4.6 🕒 17:40–18:00 **#1948 – 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 :**

A6-O5.1 🕒 16:00–16:20 **#2258 – Transfer Learning from Whisper for Microscopic Intelligibility Prediction**

Paul Best; Santiago Cuervo (LIS); Ricard Marxer (Université de Toulon, Aix Marseille Univ, CNRS, LIS, Toulon)

A6-O5.2 🕒 16:20–16:40 **#716 – 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)

A6-O5.3 🕒 16:40–17:00 **#1421 – 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)

A6-O5.4 🕒 17:00–17:20 **#2051 – The PESQer: On the Relevance of Goodhart's Law for Speech Enhancement**

Daniilo de Oliveira; Simon Welker; Julius Richter; Timo Gerkmann (Universität Hamburg)

A6-O5.5 🕒 17:20–17:40 **#2538 – 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)

A6-O5.6 🕒 17:40–18:00 **#691 – 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 :**

A8-O6.1 🕒 16:00–16:20 **#830 – 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)

A8-O6.2 16:20–16:40 #1924 – 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)

A8-O6.3 16:40–17:00 #1257 – 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)

A8-O6.4 17:00–17:20 #849 – 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)

A8-O6.5 17:20–17:40 #2027 – Sequential Editing for Lifelong Training of Speech Recognition Models

Devang Kulshreshtha (Amazon); Nikolaos Pappas (University of Washington); Brady Houston (AWS AI Labs); Saket Dingliwal; Srikanth Ronanki (Amazon)

A8-O6.6 17:40–18:00 #1898 – 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-O6.1 16:00–16:20 #2407 – FreeV: Free Lunch For Vocoders 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)

A7-O6.2 16:20–16:40 #2014 – QGAN: Low Footprint Quaternion Neural Vocoder for Speech Synthesis

Aryan Chaudhary (IIIT Delhi); Vinayak Abrol (Indraprastha Institute of Technology Delhi)

A7-O6.3 16:40–17:00 #1447 – 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)

A7-O6.4 17:00–17:20 #380 – 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)

A7-O6.5 17:20–17:40 #2371 – QHM-GAN: Neural Vocoder based on Quasi-Harmonic Modeling

Shaowen Chen (Nagoya University); Tomoki Toda (Nagoya University)

A7-O6.6 17:40–18:00 #255 – 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)

A7-O6 - Speech Synthesis: Vocoders

ORAL 📍 Melampus

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

A5-O7 - Speech and Audio Analysis

ORAL 📍 Acesso

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

A5-O7.1 🕒 16:00–16:20 **#825 – Predefined Prototypes for Intra-Class Separation and Disentanglement**

Antonio Almodévar (University of Zaragoza); Théo Marlotte (LTCI, Télécom Paris, Institut Polytechnique de Paris); Alfonso Ortega (University of Zaragoza); Marie Tahon (LIUM); Luis Vicente; Antonio Miguel; Eduardo Lleida (University of Zaragoza)

A5-O7.2 🕒 16:20–16:40 **#1127 – VAE-based Phoneme Alignment Using Gradient Annealing and SSL Acoustic Features**

Tomoki Koriyama (CyberAgent, Inc.)

A5-O7.3 🕒 16:40–17:00 **#1019 – A Transformer-Based Voice Activity Detector**

Biswajit Karan; Joshua Jansen van Vüren; Febe de Wet (Stellenbosch University); Thomas Niesler (University of Stellenbosch)

A5-O7.4 🕒 17:00–17:20 **#1229 – 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)

A5-O7.5 🕒 17:20–17:40 **#2404 – A comparative analysis of sequential models that integrate syllable dependency 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)

A5-O7.6 🕒 17:40–18:00 **#709 – 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 :**

A9-P2.1 🕒 16:00–18:00 **#1745 – 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)

A9-P2.2 🕒 16:00–18:00 **#892 – 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)

A9-P2.3 🕒 16:00–18:00 **#938 – 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)

A9-P2.4 🕒 16:00–18:00 **#2520 – 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)

A9-P2.5 🕒 16:00–18:00 **#2043 – 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)

A9-P2.6 🕒 16:00–18:00 **#1760 – 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)

A9-P2.7 🕒 16:00–18:00 **#1938 – 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)

A9-P2.8 🕒 16:00–18:00 **#2294 – 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)

A9-P2.9 🕒 16:00–18:00 **#1830 – 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 Katsouras (Athena Research Center)

A9-P2.10 🕒 16:00–18:00 **#2443 – 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)

A9-P2.11 🕒 16:00–18:00 **#1714 – 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)

A9-P2.12 🕒 16:00–18:00 **#907 – 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)

A9-P2.13 🕒 16:00–18:00 **#2199 – 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)

A9-P2.14 🕒 16:00–18:00 **#1418 – 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)

A9-P2.15 🕒 16:00–18:00 **#259 – SC-MoE: Switch Conformer Mixture of Experts for Unified Streaming and Non-streaming Code-Switching ASR**

Shuaishuai Ye; Shunfei Chen; Xinhui Hu; Xinkang Xu (Hi-Think RoyalFlush AI Research Institute)

A2-P2-B - Segmentals

POSTER 📍 Poster Area 4B

📅 Wednesday 04 September 2024 🕒 16:00–18:00 **Session chairs :**

A2-P2-B.1 🕒 16:00–18:00 **#2090 – Crosslinguistic Comparison of Acoustic Variation in the Vowel Sequences /ia/ and /io/ in Four Romance Languages**

Johanna Cronenberg; Ioana Chitoran (Université Paris Cité); Lori Lamel (CNRS LISN); Ioana Vasilescu (LIMSI)

A2-P2-B.2 🕒 16:00–18:00 **#1674 – 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)

A2-P2-B.3 ⌚ 16:00–18:00 **#1607 – Affricates in Lushootseed**

Ted Kye (University of Washington)

A2-P2-B.4 ⌚ 16:00–18:00 **#2361 – Voiced and voiceless laterals in Angami**

Viyazonuo Terhija (Indian Institute of Technology Guwahati); Priyankoo Sarmah (Indian Institute of Technology Guwahati)

A2-P2-B.5 ⌚ 16:00–18:00 **#1841 – 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 :**

A2-P2-A.1 ⌚ 16:00–18:00 **#1704 – 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)

A2-P2-A.2 ⌚ 16:00–18:00 **#2082 – 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)

A2-P2-A.3 ⌚ 16:00–18:00 **#2060 – 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)

A2-P2-A.4 ⌚ 16:00–18:00 **#310 – 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)

A2-P2-A.5 ⌚ 16:00–18:00 **#2331 – 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)

A2-P2-A.6 ⌚ 16:00–18:00 **#317 – Evaluating Italian Vowel Variation with the Recurrent Neural Network Phonet**

Austin Jones (University of Georgia); Margaret E. L. Renwick (University of Georgia)

A2-P2-A.7 ⌚ 16:00–18:00 **#833 – 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 :**

A11-P2-B.1 ⌚ 16:00–18:00 **#538 – MM-NodeFormer: Node Transformer Multimodal Fusion for Emotion Recognition in Conversation**

Zilong Huang; Man-Wai Mak; Kong Aik Lee (The Hong Kong Polytechnic University)

A11-P2-B.2 ⌚ 16:00–18:00 **#1688 – 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)

A11-P2-B.3 16:00–18:00 #1329 – 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)

A11-P2-B.4 16:00–18:00 #2122 – "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 (Division of Speech, Music & Hearing, KTH Royal Institute of Technology, Stockholm)

A11-P2-B.5 16:00–18:00 #1197 – 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)

A11-P2-B.6 16:00–18:00 #819 – 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)

A11-P2-B.7 16:00–18:00 #635 – 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 :

A11-P2-A.1 16:00–18:00 #1036 – TM-PATHVQA: 90000+ Textless 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)

A11-P2-A.2 16:00–18:00 #1993 – Towards Multilingual Audio-Visual Question Answering

Orchid Chetia Phukan (IIIT-Delhi, India); Priyabrata Mallick; Swarup Ranjan Behera; Aalekhya Satya Narayani (Reliance Jio AICoE); Arun Balaji Buduru (IIIT-Delhi, India); Rajesh Sharma (University of Tartu, Estonia)

A11-P2-A.3 16:00–18:00 #2147 – 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)

A11-P2-A.4 16:00–18:00 #1575 – Instruction Data Generation and Unsupervised Adaptation for Speech Language Models

Vahid Noroozi; Zhehuai Chen; Somshubra Majumdar; He Huang; Jagadeesh Balam; Boris Ginsburg (NVIDIA)

A11-P2-A.5 16:00–18:00 #839 – On the Use of Plausible Arguments in Explainable Conversational AI

Martina Di Bratto; Maria Di Maro; Antonio Origlia (University of Naples Federico II)

A11-P2-A.6 ⌚ 16:00–18:00 **#1406 – 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)

A11-P2-A.7 ⌚ 16:00–18:00 **#745 – 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 :**

A4-P4-B.1 ⌚ 16:00–18:00 **#161 – 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)

A4-P4-B.2 ⌚ 16:00–18:00 **#354 – W-GVKT: Within-Global-View Knowledge Transfer for Speaker Verification**

Zezhong Jin; Youzhi Tu; Man-Wai Mak (The Hong Kong Polytechnic University)

A4-P4-B.3 ⌚ 16:00–18:00 **#364 – 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)

A4-P4-B.4 ⌚ 16:00–18:00 **#434 – 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)

A4-P4-B.5 ⌚ 16:00–18:00 **#973 – 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))

A4-P4-B.6 ⌚ 16:00–18:00 **#1280 – Identifying Speakers in Dialogue Transcripts: A Text-based Approach Using Pretrained Language Models**

Minh Nguyen (University of Oregon); Franck Deroncourt (MIT); Seunghyun Yoon; Hanieh Deilamsalehy; Hao Tan; Ryan Rossi; Quan Hung Tran; Trung Bui (Adobe Research); Thien Huu Nguyen (University of Oregon)

A4-P4-A - Speaker Diarization 2

POSTER 📍 **Poster Area 1A**

📅 Wednesday 04 September 2024 ⌚
16:00–18:00 **Session chairs :**

A4-P4-A.1 ⌚ 16:00–18:00 **#399 – 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)

A4-P4-A.2 ⌚ 16:00–18:00 **#1874 – 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)

A4-P4-A.3 ⌚ 16:00–18:00 **#209 – DiarizationLM: Speaker Diarization Post-Processing with Large Language Models**

Quan Wang; Yiling Huang; Guanlong Zhao; Evan Clark; Wei Xia; Hank Liao (Google)

A4-P4-A.4 ⌚ 16:00–18:00 **#1987 – Joint vs Sequential Speaker-Role Detection and Automatic Speech Recognition for Air-traffic Control**

Alexander Blatt; Aravind Krishnan; Dietrich Klakow (Saarland University)

A4-P4-A.5 ⌚ 16:00–18:00 **#1060 – On the calibration of powerset speaker diarization models**

Alexis Plaquet (IRIT); Hervé Bredin (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France)

A4-P4-A.6 ⌚ 16:00–18:00 **#962 – Specializing Self-Supervised Speech Representations for Speaker Segmentation**

Séverin Baroudi (LIS); Thomas Pellegrini (IRIT); Hervé Bredin (IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France)

SS6 - Spoken Language Models for Universal Speech Processing (Special Session)

POSTER 📍 Yanis Club

📅 Wednesday 04 September 2024 ⌚
16:00–18:00 **Session chairs :**

SS6.1 ⌚ 16:00–18:00 **#2375 – 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)

SS6.2 ⌚ 16:00–18:00 **#1932 – 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)

SS6.3 ⌚ 16:00–18:00 **#1076 – 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)

SS6.4 ⌚ 16:00–18:00 **#2419 – 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)

SS6.5 ⌚ 16:00–18:00 **#1306 – DiscreteSLU: A Large Language Model with Self-Supervised Discrete Speech Units for Spoken Language Understanding**

Suwon Shon; Kwangyoung Kim; Yi-Te Hsu; Prashant Sridhar (ASAPP); Shinji Watanabe (Carnegie Mellon University); Karen Livescu (TTI-Chicago)

SS6.6 ⌚ 16:00–18:00 **#457 – 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)

SS6.7 ⌚ 16:00–18:00 **#1346 – 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)

SS6.8 ⌚ 16:00–18:00 **#288 – NAST: Noise Aware Speech Tokenization for Speech Language Models**

Shoval Messica (Hebrew University of Jerusalem (Huj)); Yossi Adi (The Hebrew University of Jerusalem)

SS6.9 ⌚ 16:00–18:00 **#2366 – Low Bistrate 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 :**

A2-O5.1 ⌚ 10:00–10:20 #1915 – 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)

A2-O5.2 ⌚ 10:20–10:40 #182 – Quantity-sensitivity affects recall performance of word stress

Constantijn Kaland (Institute of Linguistics - University of Cologne); Maria Lialiu (Department of German Language and Literature I - University of Cologne)

A2-O5.3 ⌚ 10:40–11:00 #2334 – Phonological Symmetry Does Not Predict Generalization of Perceptual Adaptation to Vowels

Zuheyra Tokac (Northwestern University); Jennifer Cole (Northwestern University)

A2-O5.4 ⌚ 11:00–11:20 #2212 – 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)

A2-O5.5 ⌚ 11:20–11:40 #1118 – Modeling

probabilistic reduction across domains with Naive Discriminative Learning

Anna Stein (Heinrich Heine University); Kevin Tang (Heinrich Heine University)

A2-O5.6 ⌚ 11:40–12:00 #2190 – 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 :**

A6-O6.1 ⌚ 10:00–10:20 #683 – Binaural Selective Attention Model for Target Speaker Extraction

Hanyu Meng; Qiquan Zhang; Xiangyu Zhang; Vidhyasaharan Sethu; Eliathamby Ambikairajah (The University of New South Wales)

A6-O6.2 ⌚ 10:20–10:40 #2168 – 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)

A6-O6.3 ⌚ 10:40–11:00 #1560 – Centroid Estimation with Transformer-Based Speaker Embedder for Robust Target Speaker Extraction

Woon-Haeng Heo; Joongyu Maeng; Yoseb Kang; Namhyun Cho (NCSSOFT)

A6-O6.4 ⌚ 11:00–11:20 #331 – Knowledge boosting during low-latency inference

Vidya Srinivas; Malek Itani; Tuochoo Chen (University of Washington); Emre Sefik Eskimez (Microsoft); Takuya Yoshioka (AssemblyAI Inc.); Shyamnath Gollakota (University of Washington)

A6-O6.5 ⌚ 11:20–11:40 #934 – 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)

A6-O6.6 🕒 11:40–12:00 **#1375 – 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 📍 Iasso

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

A4-O6.1 🕒 10:00–10:20 **#1490 – 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)

A4-O6.2 🕒 10:20–10:40 **#1158 – 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)

A4-O6.3 🕒 10:40–11:00 **#1840 – 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)

A4-O6.4 🕒 11:00–11:20 **#1345 – 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)

A4-O6.5 🕒 11:20–11:40 **#1402 – 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)

A4-O6.6 🕒 11:40–12:00 **#1972 – 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 :**

A8-O7.1 🕒 10:00–10:20 **#1527 – 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)

A8-O7.2 🕒 10:20–10:40 **#705 – 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)

A8-O7.3 🕒 10:40–11:00 **#1853 – Streaming Decoder-Only Automatic Speech Recogni-**

tion 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)

A8-07.4 🕒 11:00–11:20 **#2378** – **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)

A8-07.5 🕒 11:20–11:40 **#1971** – **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)

A8-07.6 🕒 11:40–12:00 **#1814** – **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)

A7-07 - Privacy and Security in Speech Communication 2

ORAL 📍 Aegle A

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

A7-07.1 🕒 10:00–10:40 **#6701** – **Fake Voice and Voice Privacy**

Junichi Yamagishi (National Institute of Informatics); Xin Wang (National Institute of Informatics)

A7-07.2 🕒 10:40–11:00 **#328** – **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)

A7-07.3 🕒 11:00–11:20 **#1888** – **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)

A7-07.4 🕒 11:20–11:40 **#1615** – **Probing the Feasibility of Multilingual Speaker Anonymization**

Sarina Meyer; Florian Lux; Ngoc Thang Vu (University of Stuttgart)

A7-07.5 🕒 11:40–12:00 **#502** – **DiffVC+: Improving Diffusion-based Voice Conversion for Speaker Anonymization**

Fan Huang; Kun Zeng (Sun Yat-sen University); Wei Zhu (China Mobile Internet Co., Ltd.)

A5-08 - Speech Type Classification

ORAL 📍 Panacea Amphitheater

📅 Thursday 05 September 2024 🕒 10:00–12:00 **Session chairs :**

A5-08.1 🕒 10:00–10:20 **#685** – **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)

A5-08.2 🕒 10:20–10:40 **#1228** – **Enhancing Multilingual Voice Toxicity Detection with Speech-Text Alignment**

Joseph Liu; Mahesh Kumar Nandwana; Janne Pytkönen; Hannes Heikinheimo; Morgan McGuire (Roblox)

A5-08.3 🕒 10:40–11:00 **#2077** – **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)

A5-O8.4 🕒 11:00–11:20 **#2370 – 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)

A5-O8.5 🕒 11:20–11:40 **#1934 – Speech Topic Classification Based on Multi-Scale and Graph Attention Networks**

Fangjing Niu; Xiaozhe Qi; Xinya Chen (Xinjiang University); Liang He (Tsinghua University)

A5-O8.6 🕒 11:40–12:00 **#1596 – 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 :**

A1-P2-B.1 🕒 10:00–12:00 **#473 – 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)

A1-P2-B.2 🕒 10:00–12:00 **#1562 – 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 Institute 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)

A1-P2-B.3 🕒 10:00–12:00 **#14 – Listeners' F0 preferences in quiet and stationary noise**

Olympia Simantiraki (Institute of Applied and Computational Mathematics, FORTH); Martin Cooke (Ikerbasque)

A1-P2-B.4 🕒 10:00–12:00 **#1721 – 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 :**

A1-P2-A.1 🕒 10:00–12:00 **#428 – 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)

A1-P2-A.2 🕒 10:00–12:00 **#1611 – 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)

A1-P2-A.3 ⌚ 10:00–12:00 **#416 – Cross-Linguistic Intelligibility of Non-Compositional Expressions in Spoken Context**

Iuliia Zaitova; Irina Stenger; Wei Xue; Tania Avgustinova; Bernd Möbius; Dietrich Klakow (Saarland University)

A1-P2-A.4 ⌚ 10:00–12:00 **#2377 – 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)

A1-P2-A.5 ⌚ 10:00–12:00 **#1000 – 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)

A1-P2-A.6 ⌚ 10:00–12:00 **#614 – 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)

A1-P2-A.7 ⌚ 10:00–12:00 **#274 – 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 :**

A9-P3.1 ⌚ 10:00–12:00 **#1330 – 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)

A9-P3.2 ⌚ 10:00–12:00 **#976 – Mitigating Overfitting in Structured Pruning of ASR Models with Gradient-Guided Parameter Regularization**

Dong-Hyun Kim (Hanyang University); Joon-Hyuk Chang (Hanyang University)

A9-P3.3 ⌚ 10:00–12:00 **#607 – 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)

A9-P3.4 ⌚ 10:00–12:00 **#703 – 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)

A9-P3.5 ⌚ 10:00–12:00 **#47 – USM RNN-T model weights binarization**

Oleg Rybakov; Dmitriy Serdyuk; Chengjian Zheng (Google)

A9-P3.6 ⌚ 10:00–12:00 **#626 – 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)

A9-P3.7 ⌚ 10:00–12:00 **#233 – RepTor: Reparameterizable Temporal Convolution for**

Keyword Spotting via Differentiable Kernel Search

Eunik Park; Daehyun Ahn; Hyungjun Kim (SqueezeBits Inc.)

A9-P3.8 ⌚ 10:00–12:00 **#642 – 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)

A9-P3.9 ⌚ 10:00–12:00 **#1609 – 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))

A9-P3.10 ⌚ 10:00–12:00 **#263 – 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 :**

A12-P3-B.1 ⌚ 10:00–12:00 **#343 – 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 (Apptek); Ralf Schlüter (RWTH Aachen University)

A12-P3-B.2 ⌚ 10:00–12:00 **#588 – 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)

A12-P3-B.3 ⌚ 10:00–12:00 **#558 – Optimizing Large-Scale Context Retrieval for End-to-End ASR**

Zhiqi Huang (University of Massachusetts Amherst); Diamantino Caseiro; Kandarp Joshi (Google Inc.); Christopher Li; Pat Rondon (Google); Zelin Wu (Google LLC); Petr Zadrzil (Google Inc.); Lillian Zhou (Google)

A12-P3-B.4 ⌚ 10:00–12:00 **#1157 – 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)

A12-P3-B.5 ⌚ 10:00–12:00 **#555 – Enhancing CTC-based speech recognition with diverse modeling units**

Shiyi Han; Mingbin Xu; Zhihong Lei; Zhen Huang; Xingyu Na (Apple)

A12-P3-B.6 ⌚ 10:00–12:00 **#363 – 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 :**

A12-P3-A.1 ⌚ 10:00–12:00 **#2300 – 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)

A12-P3-A.2 ⌚ 10:00–12:00 **#32 – Beyond Levenshtein: Leveraging Multiple Algorithms for Robust Word Error Rate Computations And Granular Error Classifications**

Korbinian Kuhn; Verena Kersken; Gottfried Zimmermann (Stuttgart Media University)

A12-P3-A.3 ⌚ 10:00–12:00 **#1270 – Comparing ASR Systems in the Context of Speech Disfluencies**

Maria Teleki; Xiangjue Dong; Soohwan Kim; James Caverlee (Texas A&M University)

A12-P3-A.4 ⌚ 10:00–12:00 **#1869 – 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)

A12-P3-A.5 ⌚ 10:00–12:00 **#2033 – 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)

A7-P4-B - Speech Synthesis: Paradigms and Methods 3

POSTER 📍 Poster Area 4B

📅 Thursday 05 September 2024 ⌚ 10:00–12:00 **Session chairs :**

A7-P4-B.1 ⌚ 10:00–12:00 **#1392 – Simple-Speech: Towards Simple and Efficient Text-to-Speech with Scalar Latent Transformer Diffusion Models**

Dongchao Yang (The Chinese University of Hong Kong); Dingdong Wang; Haohan Guo; Xueyuan Chen; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

A7-P4-B.2 ⌚ 10:00–12:00 **#2235 – Sample-Efficient Diffusion for Text-To-Speech Synthesis**

Justin Lovelace (Cornell University); Soham Ray; Kwangyoun Kim (ASAPP); Kilian Q. Weinberger (Cornell University); Felix Wu (ASAPP)

A7-P4-B.3 ⌚ 10:00–12:00 **#2337 – 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)

A7-P4-B.4 ⌚ 10:00–12:00 **#63 – 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)

A7-P4-B.5 ⌚ 10:00–12:00 **#1023 – PitchFlow: adding pitch control to a Flow-matching based TTS model**

Tasnima Sadekova; Mikhail Kudinov; Vadim Popov; Assel Yermekova; Artem Khrapov (Huawei Noah's Ark Lab)

A7-P4-B.6 ⌚ 10:00–12:00 **#2005 – Dual-Speech: 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.7 ⌚ 10:00–12:00 **#1465 – 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)

A7-P4-B.8 ⌚ 10:00–12:00 **#1531 – 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 :**

A7-P4-A.1 ⌚ 10:00–12:00 #888 – SPA-SVC: Self-supervised Pitch Augmentation for Singing Voice Conversion

Bingsong Bai; Fengping Wang; Yingming Gao; Ya Li (Beijing University of Posts and Telecommunications)

A7-P4-A.2 ⌚ 10:00–12:00 #1256 – 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)

A7-P4-A.3 ⌚ 10:00–12:00 #947 – 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)

A7-P4-A.4 ⌚ 10:00–12:00 #46 – HybridVC: Efficient Voice Style Conversion with Text and Audio Prompts

Xinlei Niu; Jing Zhang; Charles Patrick Martin (Australian National University)

A7-P4-A.5 ⌚ 10:00–12:00 #1432 – DreamVoice: Text-Guided Voice Conversion

Jiarui Hai; Karan Thakkar; Helin Wang (Johns Hopkins University); Zengyi Qin (MIT); Mounya Elhilali (Johns Hopkins University)

A7-P4-A.6 ⌚ 10:00–12:00 #232 – Hear Your Face: Face-based voice conversion with F0 estimation

Jaejun Lee; Yoori Oh; Injune Hwang; Kyogu Lee (Seoul National University)

A7-P4-A.7 ⌚ 10:00–12:00 #1416 – 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)

A7-P4-A.8 ⌚ 10:00–12:00 #664 – USD-AC: Un-supervised 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)

A7-P4-A.9 ⌚ 10:00–12:00 #924 – 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 :**

SS4.1 ⌚ 10:00–10:40 #2490 – 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)

SS4.2 🕒 10:40–11:00 **#665 – Exploring Pre-trained Speech Model for Articulatory Feature Extraction in Dysarthric Speech Using ASR**

Yuqin Lin; Longbiao Wang; Jianwu Dang (Tianjin University); Nobuaki Minematsu (Graduate School of Engineering, The University of Tokyo, Japan)

SS4.3 🕒 11:00–11:20 **#1740 – 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)

SS4.4 🕒 11:20–11:40 **#1039 – Are Articulatory Feature Overlaps Shrouded in Speech Embeddings?**

Erfan A. Shams; Iona Gessinger (School of Computer Science, University College Dublin, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland); Patrick Cormac English (UCD); Julie Carson-Berndsen (School of Computer Science, University College Dublin, Ireland; SFI Centre for Research Training in Digitally-Enhanced Reality, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland)

SS4.5 🕒 11:40–12:00 **#2047 – 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 (School of Computer Science, University College Dublin, Ireland; SFI Centre for Research Training in Digitally-Enhanced Reality, Ireland; SFI Research Centre for AI-driven Digital Content Technology, Ireland)

SS7 - Responsible Speech Foundation Models (Special Session)

POSTER 📍 **Yanis Club**

📅 **Thursday 05 September 2024** 🕒 **10:00–12:00** **Session chairs :**

SS7.1 🕒 10:00–12:00 **#102 – Speech foundation models in healthcare: Effect of layer se-**

lection 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)

SS7.2 🕒 10:00–12:00 **#2105 – 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)

SS7.3 🕒 10:00–12:00 **#2494 – 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 (INESC ID)

SS7.4 🕒 10:00–12:00 **#1073 – 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)

SS7.5 🕒 10:00–12:00 **#454 – 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)

SS7.6 🕒 10:00–12:00 **#2394 – 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 Holliday (Pomona College); Odette Scharenborg (Multimedia Computing Group, Delft University of Technology); David R. Mortensen (Language Technologies Institute, Carnegie Mellon University)

SS7.7 🕒 10:00–12:00 **#1212 – 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)

SS7.8 10:00–12:00 #971 – 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 :**

A12-O3.1 13:30–13:50 #2296 – 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)

A12-O3.2 13:50–14:10 #1713 – 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)

A12-O3.3 14:10–14:30 #1633 – 2DP-2MRC: 2-Dimensional Pointer-based Machine Reading Comprehension Method for Multimodal Moment Retrieval

Jiajun He (Nagoya University); Tomoki Toda (Nagoya University)

A12-O3.4 14:30–14:50 #1642 – GPA: Global and Prototype Alignment for Audio-Text Retrieval

Yuxin Xie; Zhihong Zhu; Xianwei Zhuang; Liming Liang; Zhichang Wang; Yuexian Zou (Peking University)

A12-O3.5 14:50–15:10 #1823 – Few-Shot Keyword-Incremental Learning with Total Calibration

Ilseok Kim; Ju-Seok Seong; Joon-Hyuk Chang (Hanyang University)

A12-O3.6 15:10–15:30 #2107 – 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 :**

A13-O4.1 13:30–13:50 #1458 – Missingness-resilient Video-enhanced Multimodal Disfluency Detection

Payal Mohapatra; Shamika Likhite (Northwestern University); Subrata Biswas; Bashima Islam (Worcester Polytechnic Institute); Qi Zhu (Northwestern University)

A13-O4.2 13:50–14:10 #918 – 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)

A13-O4.3 14:10–14:30 #1309 – 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)

A13-O4.4 🕒 14:30–14:50 **#524 – 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)

A13-O4.5 🕒 14:50–15:10 **#1497 – MMSD-Net: Towards Multi-modal Stuttering Detection**

Liangyu Nie (UT Dallas); Sudarsana Reddy Kadiri (University of Southern California); Ruchit Agrawal (University of Oxford)

A13-O4.6 🕒 15:10–15:30 **#2120 – 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 📍 Melampus

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs :**

A6-O7.1 🕒 13:30–14:10 **#6601 – Deep learning based speech enhancement**

Timo Gerkmann (Universität Hamburg)

A6-O7.2 🕒 14:10–14:30 **#53 – 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)

A6-O7.3 🕒 14:30–14:50 **#1234 – Personalized Speech Enhancement Without a Separate Speaker Embedding Model**

Tanel Pärnamaa (Microsoft); Ando Saabas (Microsoft)

A6-O7.4 🕒 14:50–15:10 **#1239 – 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)

A6-O7.5 🕒 15:10–15:30 **#153 – 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 📍 Ilasso

📅 Thursday 05 September 2024 🕒 13:30–15:30 **Session chairs :**

A4-O7.1 🕒 13:30–14:10 **#6404 – Self-supervised based speaker recognition**

Themos Stafylakis (Omilia - Conversational Intelligence)

A4-07.2 ⌚ 14:10–14:30 **#1466 – Self-Supervised Speaker Verification with Mini-Batch Prediction Correction**

Junxu Wang; Zhihua Fang (Xinjiang University); Liang He (Tsinghua University)

A4-07.3 ⌚ 14:30–14:50 **#752 – 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)

A4-07.4 ⌚ 14:50–15:10 **#360 – 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)

A4-07.5 ⌚ 15:10–15:30 **#531 – Getting More for Less: Using Weak Labels and AV-Mixup for Robust Audio-Visual Speaker Verification**

Anith Selvakumar (LG Electronics); Homa Fashandi (LG Electronics)

A8-08 - Self-Supervised Learning for ASR

ORAL 📍 **Aegle B**

📅 Thursday 05 September 2024 ⌚
13:30–15:30 **Session chairs :**

A8-08.1 ⌚ 13:30–14:10 **#6801 – Multilingual Speech Representations**

Bhuvana Ramabhadran (Google)

A8-08.2 ⌚ 14:10–14:30 **#476 – What happens in continued pre-training? Analysis of self-supervised speech models with continued pre-training for colloquial Finnish ASR**

Yaroslav Getman (Aalto University); Tamás Grósz; Mikko Kurimo (Aalto University, Finland)

A8-08.3 ⌚ 14:30–14:50 **#1933 – 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)

A8-08.4 ⌚ 14:50–15:10 **#1978 – 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)

A8-08.5 ⌚ 15:10–15:30 **#1875 – 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)

A7-08 - Speech synthesis: Cross-lingual and multilingual aspects

ORAL 📍 **Aegle A**

📅 Thursday 05 September 2024 ⌚
13:30–15:30 **Session chairs :**

A7-08.1 ⌚ 13:30–13:50 **#1335 – 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); Emanuel A. P. Habets (AudioLabs Erlangen); Ngoc Thang Vu (University of Stuttgart)

A7-08.2 ⌚ 13:50–14:10 **#969 – 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)

A7-08.3 ⌚ 14:10–14:30 **#775 – 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 (PAII Inc.); Jing Xiao (Ping An Insurance (Group) Company of China)

A7-08.4 ⌚ 14:30–14:50 **#1716 – Seamless Language Expansion: Enhancing Multilingual Mastery in Self-Supervised Models**

Jing Xu; Minglin Wu; Xixin Wu; Helen Meng (The Chinese University of Hong Kong)

A7-08.5 ⌚ 14:50–15:10 **#2016 – XTTS: a Massively Multilingual Zero-Shot Text-to-Speech Model**

Edresson Casanova (Nvidia); Kelly Davis (Coqui); Eren Gölgö (Coqui.ai); Görkem Gökner; Iulian Gulea (Coqui); Logan Hart (Cantina.ai); Aya Aljafari (Nvidia); Joshua Meyer (Rabbit); Reuben Morais (Voize); Samuel Olayemi (Coqui); Julian Weber (Cantina.ai)

A7-08.6 ⌚ 15:10–15:30 **#589 – 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)

A5-09 - Fake Audio Detection

ORAL 📍 **Panacea Amphitheater**

📅 **Thursday 05 September 2024** ⌚ **13:30–15:30** **Session chairs :**

A5-09.1 ⌚ 13:30–13:50 **#1302 – 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)

A5-09.2 ⌚ 13:50–14:10 **#254 – 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)

A5-09.3 ⌚ 14:10–14:30 **#587 – 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)

A5-09.4 ⌚ 14:30–14:50 **#1185 – Singing Voice Graph Modeling for SingFake Detection**

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

A5-09.5 ⌚ 14:50–15:10 **#1851 – 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)

A5-09.6 ⌚ 15:10–15:30 **#177 – 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 :

A3-P3-B.1 ⌚ 13:30–15:30 #469 – 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)

A3-P3-B.2 ⌚ 13:30–15:30 #2233 – Are Paralinguistic Representations all that is needed for Speech Emotion Recognition?

Orchid Chetia Phukan (IIIT-Delhi, India); Gautam Siddharth Kashyap (Jamia Hamdard); Arun Balaji Buduru (IIIT-Delhi, India); Rajesh Sharma (University of Tartu, Estonia)

A3-P3-B.3 ⌚ 13:30–15:30 #427 – 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)

A3-P3-B.4 ⌚ 13:30–15:30 #860 – 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 :

A3-P3-A.1 ⌚ 13:30–15:30 #1793 – 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)

A3-P3-A.2 ⌚ 13:30–15:30 #1462 – 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)

A3-P3-A.3 ⌚ 13:30–15:30 #1512 – 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)

A3-P3-A.4 ⌚ 13:30–15:30 #782 – 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)

A3-P3-A.5 ⌚ 13:30–15:30 #535 – Tackling Missing Modalities in Audio-Visual Representation Learning Using Masked Autoencoders

Georgios Chochlakis (University of Southern California); Chandrashekhar Lavania (AWS AI Labs); Prashant Mathur (Amazon); Kyu J. Han (Amazon Web Services (AWS))

A3-P3-A.6 ⌚ 13:30–15:30 #2364 – Enhancing Multimodal Emotion Recognition through ASR Error Compensation and LLM Fine-Tuning

Jehyun Kyung; Serin Heo; Joon-Hyuk Chang (Hanyang University)

A3-P3-A.7 ⌚ 13:30–15:30 #1226 – 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 :

A5-P4-B.1 ⌚ 13:30–15:30 #1726 – 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)

A5-P4-B.2 ⌚ 13:30–15:30 #112 – 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)

A5-P4-B.3 ⌚ 13:30–15:30 #1692 – 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)

A5-P4-B.4 ⌚ 13:30–15:30 #1848 – 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)

A5-P4-B.5 ⌚ 13:30–15:30 #478 – 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)

A5-P4-B.6 ⌚ 13:30–15:30 #314 – 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 :

A5-P4-A.1 ⌚ 13:30–15:30 #1723 – 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)

A5-P4-A.2 ⌚ 13:30–15:30 #106 – 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)

A5-P4-A.3 ⌚ 13:30–15:30 #1890 – 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)

A5-P4-A.4 ⌚ 13:30–15:30 **#1644 – Robust Laughter Segmentation with Automatic Diverse Data Synthesis**

Taisei Omine; Kenta Akita; Reiji Tsuruno (Kyushu University)

A5-P4-A.5 ⌚ 13:30–15:30 **#791 – Explainable by-design Audio Segmentation through Non-Negative Matrix Factorization and Prob-ing**

Martin Lebourdais (IRIT/CNRS); Théo Mariotte (LTCI, Télécom Paris, Institut Polytechnique de Paris); Antonio Almudévar (University of Zaragoza); Marie Tahon (LIUM); Alfonso Ortega (University of Zaragoza)

A5-P4-A.6 ⌚ 13:30–15:30 **#2150 – Predicting Heart Activity from Speech using Data-driven and Knowledge-based features**

Gasser Elbanna (Harvard); Zohreh Mostaani; Mathew Magimai.-Doss (Idiap Research Institute)

A5-P4-A.7 ⌚ 13:30–15:30 **#2204 – 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)

A5-P4-A.8 ⌚ 13:30–15:30 **#1454 – 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)

A5-P4-A.9 ⌚ 13:30–15:30 **#1686 – 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)

A5-P4-A.10 ⌚ 13:30–15:30 **#1361 – Multi-modal 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)

A5-P4-A.11 ⌚ 13:30–15:30 **#2242 – 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)

A5-P4-A.12 ⌚ 13:30–15:30 **#1758 – Fully Few-shot Class-incremental Audio Classification Using Expandable Dual-embedding Extractor**

Yongjie Si; Yanxiong Li; Jialong Li; Jiaxin Tan; Qianhua He (SOUTH CHINA UNIVERSITY 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 :**

A8-P5.1 ⌚ 13:30–15:30 **#2264 – 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)

A8-P5.2 ⌚ 13:30–15:30 **#2274 – 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)

A8-P5.3 ⌚ 13:30–15:30 **#1264 – 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)

A8-P5.4 ⌚ 13:30–15:30 **#1788 – NOTSOFAR-1 Challenge: New Datasets, Baseline, and Tasks for Distant Meeting Transcription**

Alon Vinnikov; Amir Ivry; Aviv Hurvitz; Igor Abramovski; Sharon Koubi (Microsoft); Ilya Gurchich (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)

A8-P5.5 ⌚ 13:30–15:30 **#306 – 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-P5.6 ⌚ 13:30–15:30 **#1622 – 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)

A8-P5.7 ⌚ 13:30–15:30 **#1796 – 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)

A8-P5.8 ⌚ 13:30–15:30 **#312 – 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)

A8-P5.9 ⌚ 13:30–15:30 **#1623 – 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)

A8-P5.10 ⌚ 13:30–15:30 **#413 – 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)

A8-P5.11 ⌚ 13:30–15:30 **#1172 – 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 :**

A7-P5-B.1 ⌚ 13:30–15:30 **#2403 – Enabling Conversational Speech Synthesis using Noisy Spontaneous Data**

Liisa Rätsep; Rasmus Lellep; Mark Fishel (University of Tartu)

A7-P5-B.2 🕒 13:30–15:30 **#168 – 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")

A7-P5-B.3 🕒 13:30–15:30 **#1480 – H4C-TTS: Leveraging Multi-Modal Historical Context for Conversational Text-to-Speech**

Donghyun Seong (Hanyang University); Joon-Hyuk Chang (Hanyang University)

A7-P5-B.4 🕒 13:30–15:30 **#600 – 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)

A7-P5-B.5 🕒 13:30–15:30 **#1508 – Speech-BERTScore: 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)

A7-P5-B.6 🕒 13:30–15:30 **#1675 – UNIQUE : Unsupervised Network for Integrated Speech Quality Evaluation**

Juhwan Yoon; WooSeok Ko; Seyun Um (yonsei university); Sungwoong Hwang; Soojong Hwang (Hyundai Motor Company); Changhwan Kim (Hyundai Motor Group); Hong-Goo Kang (Yonsei University)

A7-P5-B.7 🕒 13:30–15:30 **#140 – 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 :**

A7-P5-A.1 🕒 13:30–15:30 **#2467 – LiteFocus: Accelerated Diffusion Inference for Long Audio Synthesis**

Zhenxiong Tan; Xinyin Ma; Gongfan Fang; Xinchao Wang (National University of Singapore)

A7-P5-A.2 🕒 13:30–15:30 **#425 – 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)

A7-P5-A.3 🕒 13:30–15:30 **#1429 – PL-TTS: A Generalizable Prompt-based Diffusion TTS Augmented by Large Language Model**

Shuhua Li; Qirong Mao (Jiangsu University); Jiatong Shi (Carnegie Mellon University)

A7-P5-A.4 🕒 13:30–15:30 **#302 – Towards real-time co-speech gestures synthesis using STARGATE**

Louis Abel (Université de Lorraine); Vincent Colotte; Slim Ouni (LORIA)

A7-P5-A.5 🕒 13:30–15:30 **#1771 – PPR: 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 Sci-

ences); Zhiyong Wang (University of Chinese Academy of Sciences); Xiaopeng Wang (UCAS)

A7-P5-A.6 13:30–15:30 **#2380 – Neural ATSM: Fully Neural Network-based Adaptive Time-Scale Modification Using Sentence-Specific Dynamic Control**

Jaeuk Lee; Sohee Jang; Joon-Hyuk Chang (Hanyang University)

A7-P5-A.7 13:30–15:30 **#1435 – 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)

A7-P5-A.8 13:30–15:30 **#400 – 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)

A7-P5-A.9 13:30–15:30 **#339 – Towards a General-Purpose Model of Perceived Pragmatic Similarity**

Nigel G. Ward; Andres Segura (University of Texas at El Paso, USA); 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 :**

SS8.1 13:30–15:30 **#1359 – 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)

SS8.2 13:30–15:30 **#992 – 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)

SS8.3 13:30–15:30 **#2239 – 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)

SS8.4 13:30–15:30 **#1114 – 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, Syracuse, NY, USA); Carol Espy-Wilson (University of Maryland)

SS8.5 13:30–15:30 **#2481 – Children's Speech Recognition through Discrete Token Enhancement**

Vrunda N. Sukhadia (QCRI); Shammur Absar Chowdhury (QCRI)

SS8.6 13:30–15:30 **#159 – 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)

SS8.7 13:30–15:30 **#1180 – Reading Mis-cue Detection in Primary School through Automatic Speech Recognition**

Lingyun Gao; Cristian Tejedor-Garcia (Radboud University Nijmegen); Helmer Strik; Catia Cucchiari (Radboud Universiteit Nijmegen)

SS8.8 ⌚ 13:30–15:30 **#2125 – 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)

SS8.9 ⌚ 13:30–15:30 **#540 – 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)

SS8.10 ⌚ 13:30–15:30 **#1095 – 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)

SS8.11 ⌚ 13:30–15:30 **#1353 – 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)

SS8.12 ⌚ 13:30–15:30 **#1102 – 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)

SS8.13 ⌚ 13:30–15:30 **#485 – 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)

SS8.14 ⌚ 13:30–15:30 **#499 – Mixed Children/Adult/Childrenized 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)

SS8.15 ⌚ 13:30–15:30 **#717 – 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 :**

ST4.1 ⌚ 13:30–15:30 **#5004 – 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 (Speech Processing Lab, LTRC, IIIT Hyderabad, India)

ST4.2 ⌚ 13:30–15:30 **#5012 – 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)

ST4.3 ⌚ 13:30–15:30 **#5034 – A ChatGPT-based oral Q&A practice system for first-time student participants in international conferences**

Mayuko Aiba; Daisuke Saito; Nobuaki Minematsu (Graduate School of Engineering, The University of Tokyo, Japan)

ST4.4 ⌚ 13:30–15:30 **#5035 – 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 (Department of Computer Science and Information Engineering, National Taiwan Normal University)

ST4.5 🕒 13:30–15:30 **#5036 – 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)

ST4.6 🕒 13:30–15:30 **#5037 – CALL system using pitch-accent feature representations reflecting listeners' subjective adequacy**

Ikuyo Masuda-Katsuse (Kindai University Tokyo); Ayako Shirose (Gakugei University)

ST4.7 🕒 13:30–15:30 **#5039 – The speech motor chaining web app for speech motor learning**

Jonathan L Preston (Syracuse University, Syracuse, NY, USA); Nina R Benway (University of Maryland, College Park, MD, USA); Nathan Prestopnik (Shenandoah University, Winchester, VA, USA); Nathan Preston (Speech-Link, Syracuse, NY, USA)

ST4.8 🕒 13:30–15:30 **#5040 – Visualization for improving foreign language pronunciation**

Charlotte Yoder; Karrie Karahalios; Mark Hasegawa-Johnson; Shreyansh Agrawal (University of Illinois Urbana-Champaign, United States of America)

ST4.9 🕒 13:30–15:30 **#5042 – CaptainA self-study mobile app for practising speaking: task completion assessment and feedback with generative AI**

Nhan Phan (Aalto University, Finland); Anna von Zansen (University of Helsinki, Finland); Maria Kautonen (Univer-

sity of Jyväskylä, Finland); Tamás Grósz; Mikko Kurimo (Aalto University, Finland)

ST4.10 🕒 13:30–15:30 **#5019 – 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, India); Muskaan Singh (CARL, ISRC, SCEI, Ulster University)

ST4.11 🕒 13:30–15:30 **#5021 – ComFeAT: combination of neural and spectral features for improved depression detection**

Orchid Chetia Phukan (IIIT-Delhi, India); Sarthak Jain (GGSIPU New Delhi, India); Shubham Singh (BIT Mesra, India); Muskaan Singh (ISRC, Ulster University, UK); Arun Balaji Buduru (IIIT-Delhi, India); Rajesh Sharma (IIIT-Delhi, India; University of Tartu, Estonia)

Closing - Closing Ceremony

CEREMONY 📍 Hippocrates

📅 Thursday 05 September 2024 🕒 16:00–17:00 **Session chairs :**

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