



# 第十八届 全国人机语音通讯学术会议

2023年12月8-10日 江苏·苏州

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## Friday, December 8

**Fri-M-T-1: Speaker Representation Learning: Theories, Applications and Practice****Room: 107****Type: Tutorial****December 8, 9:00 AM to 10:30 PM****Presenter: 王帅老师, 韩冰博士****Chair: 钱彦旻老师****Fri-M-T-2: 语音预训练****Room: 107****Type: Tutorial****December 8, 10:45 AM to 12:15 PM****Presenter: 刘树杰老师****Chair: 钱彦旻老师****Fri-A-T-1: 语音可懂度的客观评估技术****Room: 107****Type: Tutorial****December 8, 1:00 PM to 2:30 PM****Presenter: 陈霏老师****Chair: 武执政老师****Fri-A-T-2: Building the Singing Voice Foundation Model****Room: 107****Type: Tutorial****December 8, 2:45 PM to 4:15 PM****Presenter: 雪巍老师****Chair: 武执政老师****Fri-A-IND: Industry Forum 1****Room: 107****Type: Industry Forum****December 8, 4:30 PM to 6:00 PM****Chair: 张超老师**

16:30-17:00

**Fri-A-IND-1: 对话式人工智能技术及其产业应用****Presenter: 樊帅 (思必驰)**

17:00-17:25

**Fri-A-IND-2: OPPO 小布助手的语音技术应用实践****Presenter: 田垚 (OPPO)**

17:25-17:40

**Fri-A-IND-3: 魔搭语音和音频多模态大模型研究和开源进展**

Presenter: 张仕良 (阿里云)

17:40-17:55

**Fri-A-IND-4: 智能语音技术赋能语言学习**

Presenter: 王龙标 (智言科技)

## Saturday, December 9

### Sat-M-PLEN-1: ChatGLM: 从千亿模型到 ChatGPT 的一点思考

**Room:** 206

**Type:** Plenary

**December 9, 9:15 AM to 10:00 AM**

**Presenter:** 唐杰老师

**Chair:** 贾珈老师

### Sat-M-PLEN-2: Harnessing Machine Learning with Science in Speech and Language Technologies

**Room:** 206

**Type:** Plenary

**December 9, 10:00 AM to 10:45 AM**

**Presenter:** Helen Meng 老师

**Chair:** 贾珈老师

### Sat-M-O-1: Best Paper Presentation

**Room:** 108

**Type:** Oral

**December 9, 11:00 AM to 12:30 PM**

**Chair:** 陈景东老师

#### Sat-M-O-1-1: Adaptive Deep Graph Convolutional Network For Dialogical Speech Emotion Recognition

Jiaying Liu (Tianjin University); Sheng Wu (Tianjin University)\*; Longbiao Wang (Tianjin University); Jianwu Dang (Tianjin University)

#### Sat-M-O-1-2: CAM-GUI: A Conversational Assistant on Mobile GUI

Zichen Zhu (Shanghai Jiao Tong University)\*; Liangtai Sun (Shanghai Jiao Tong University); Jingkai Yang (Shanghai Jiao Tong University); Yifan Peng (Shanghai Jiao Tong University); Weilin Zou (Shanghai Jiao Tong University); Ziyuan Li (Shanghai Jiao Tong University); Wutao Li (Shanghai Jiao Tong University); Lu Chen (Shanghai Jiao Tong University); Yingzi Ma (Sichuan University); Danyang Zhang (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University)

#### Sat-M-O-1-3: Parkinson's-Specific Featureset under Read Speech Experiment

Pingyue Zhang (Shanghai Jiao Tong University); Mengyue Wu (Shanghai Jiao Tong University)\*; Kai Yu (Shanghai Jiao Tong University)

#### Sat-M-O-1-4: APNet2: High-quality and High-efficiency Neural Vocoder with Direct Prediction of Amplitude and Phase Spectra

Hui-Peng Du (University of Science and Technology of China)\*; Ye-Xin Lu (University of Science and Technology of China); Yang Ai (University of Science and Technology of China); Zhen-Hua Ling (University of Science and Technology of China)

#### Sat-M-O-1-5: 基于高可迁移性的通用扰动的快速对抗样本生成方法

Wang Zhen (Harbin Institute of Technology)\*; Jiqing Han (Harbin Institute of Technology); 何勇军 (哈尔滨工业大学); 郑铁然 (哈尔滨工业大学); 郑贵滨 (哈尔滨工业大学)

**Sat-M-O-1-6: 基于无注意力和分层模型的阿尔茨海默氏症检测方法**  
Zhongren Dong (Hunan University)\*; Zixing Zhang (Hunan University)

**Sat-M-O-2: Speech Recognition and Keyword Spotting**

**Room: 104**

**Type: Oral**

**December 9, 11:00 AM to 12:30 PM**

**Chair: 李明老师**

**Sat-M-O-2-1: An MFCCA and Speaker Diarization Based SA-ASR System for the Multi-channel Multi-party Meeting Transcription**

Luzhen Xu (University of Science and Technology of China)\*; Haoyin Yan (University of Science and Technology of China); Mao-Kui He (University of Science and Technology of China); Zixian Guo (University of Science and Technology of China); Zhou Yeping (China Merchants Bank); Peiqi Liu (CMB China); Jie Zhang (University of Science and Technology of China (USTC)); Lirong Dai (University of Science and Technology of China)

**Sat-M-O-2-2: Research on language-assisted Mandarin-English Code-switching ASR**

Hukai Huang (Xiamen University)\*; Jiayan Lin (Xiamen University); Qingyang Hong (Xiamen University); Lin Li (Xiamen University)

**Sat-M-O-2-3: Wav2vec-AD: Acoustic Unit Discovery Module-Integrated, Self-Supervised Contrastive Pre-training Approach for Speech Recognition**

Nurmemet Yolwas (Xinjiang University); Lixu Sun (Xinjiang University)\*; Xin Li (Xinjiang University); Qichao Liu (Xinjiang University); Zhixiang Wang (Xinjiang University)

**Sat-M-O-2-4: EC-BERT: A BERT language model with Error Correction for Mandarin Chinese Speech Recognition**

Sujie Xiao (University of Chinese Academy of Sciences; Institute of Acoustics, Chinese Academy of Sciences)\*; Ruipeng Hao (Institute of Acoustics, Chinese Academy of Sciences); Gaofeng Cheng (Institute of Acoustics, Chinese Academy of Sciences); Xiaoyan Xu (Institute of Acoustics, Chinese Academy of Sciences); Ta Li (Institute of Acoustics, Chinese Academy of Sciences)

**Sat-M-O-2-5: Advancing VAD Systems Based on Multi-Task Learning with Improved Model Structures**

Lingyun Zuo (Speech Lab, Alibaba Group)\*; Keyu An (Speech Lab, Alibaba Group, China); Shiliang Zhang (Alibaba Group); Zhijie Yan (Alibaba Inc.)

**Sat-M-O-2-6: End-to-end Streaming Customizable Keyword Spotting based on text-adaptive neural search**

Baochen Yang (Shanghai Jiao Tong University)\*; Jiaqi Guo (AISpeech Ltd, Suzhou China); Yu Xi (Shanghai Jiao Tong University); Haoyu Li (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University)

**Sat-M-O-2-7: 基于有限训练数据和开放集学习的鲁棒小型关键词检测系统**

Zijun Huang (Northwestern Polytechnical University)\*; Zhang Xiaolei (Northwestern Polytechnical University)

**Sat-M-SS: 半监督智能语音语言技术**

**Room: 206**

**Type: Special Session**

**December 9, 11:00 AM to 12:30 PM**

**Organizer: 欧智坚老师, 张鹏远老师**

**Chair: 欧智坚老师**

**Sat-M-SS-1: 语音识别中的半监督学习范式思考**

Presenter: 颜永红老师, 中国科学院声学研究所首席科学家

**Sat-M-SS-2: Large-Scale Foundation Model for Speech Generation**

Presenter: Wei-Ning Hsu (徐焯甯) 老师, Meta Fundamental AI Research (FAIR) Research Scientist / Audio Generation Team Lead

**Sat-M-SS-3: 大规模语言模型的领域探索——以法律场景为例**

Presenter: 冯岩松老师, 北京大学王选计算机研究所副教授

**Sat-M-SS-4: 零样本跨语言语音合成与翻译**

Presenter: 刘树杰老师, 微软亚洲研究院首席研究员

**Sat-M-P-1: Speech Coding and Enhancement**

**Room: 105**

**Type: Poster**

**December 9, 11:00 AM to 12:30 PM**

**Sat-M-P-1-1: 用于听觉注意检测的音视频脑电数据集**

Hongyu Zhang (Anhui University School of Computer Science and Technology); Jingjing Zhang (Anhui University); Xingguang Dong (Anhui University); Zhao Lv (anhui university); Jianhua Tao (Department of Automation, Tsinghua University); Jian Zhou (Anhui University); Xiaopei Wu (Anhui University School of Computer Science and Technology); Cunhang Fan (Anhui Provincial Key Laboratory of Multimodal Cognitive Computation, School of Computer Science and Technology, Anhui University)\*

**Sat-M-P-1-2: 基于梅尔谱与压缩激励加权量化的语音神经编解码方法**

Junzuo Zhou (Institute of Automation, Chinese Academy of Sciences)\*; Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Jianhua Tao (Department of Automation, Tsinghua University); Yong Ren (Institute of Automation, Chinese Academy of Sciences); Tao Wang (Institute of Automation, Chinese Academy of Sciences)

**Sat-M-P-1-3: 用于目标语音增强的去噪扩散条件期望模型**

Leying Zhang (Shanghai Jiao Tong University)\*; Yanmin Qian (Shanghai Jiao Tong University)

**Sat-M-P-1-4: 融合 MVDR 和多目标 GAN 网络的多通道语音增强**

Tuo Liu (Shenzhen University)\*; Zhijian Jiang (shenzhen university); Yunda Chen (Shenzhen University); Yupeng Shi (Shenzhen University); Nengheng Zheng (Shenzhen University)

**Sat-M-P-1-5: Joint speech and noise estimation using SNR-adaptive target learning for deep-learning-based speech enhancement**

Xiaoran Li (USTC)\*; Zilu Guo (USTC); Jun Du (University of Science and Technology of China); Chin-Hui Lee (Georgia Institute of Technology); Yu Gao (Midea); Wenbin Zhang (Midea)

**Sat-M-P-1-6: Improving Speech Intelligibility through Sub-band temporal envelope Characteristics**

Ruilin Wu (Xinjiang University); Zhihua Huang (Xinjiang university)\*; Jingyi Song (Xinjiang University); Xiaoming Liang (Xinjiang University)

**Sat-M-P-1-7: 基于两阶段神经网络的低复杂度实时声学回声消除系统**

Haoming Li (Shenzhen University)\*; Weitong Zhao (Shenzhen University); Zhijian Jiang (shenzhen university); Yuyong Kang (Shenzhen Jingxinhao Technology Co., Ltd); Nengheng Zheng (Shenzhen University)

**Sat-M-P-1-8: A Bone Conducted Speech Based Loss Function For Speech Enhancement**

Qiu Keying (Shenzhen University)\*; Yunda Chen (Shenzhen University); Nengheng Zheng (Shenzhen University)

**Sat-M-P-1-9: Implementation of Multichannel Speech Coding Method Based on the Opus Codec and Spatial Parameters**

Xue Yang (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*; Jing Zhou (Beijing University of Technology); Xu Zhang (Beijing University of Technology); Haiwei Duan (Beijing University of Technology); Yunhao Zhao (Beijing University of Technology); Wenwen Li (Beijing University of Technology)

**Sat-M-P-1-10: Target Speech Separation with Steering Vector Beamforming in Multi-Channel Microphone**

Xiaokang Yang (Tianjin University)\*; Wenjun Ke (Tianjin University); 臣白国 (天津大学); Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China)

**Sat-M-P-1-11: 基于差和比和质心修正的风噪抑制算法**

张瑜聪 (Shenzhen university)\*; 孙伟 (华勤技术股份有限公司); 陈运达 (Shenzhen university); Nengheng Zheng (Shenzhen University); Zhijian Jiang (shenzhen university)

**Sat-M-P-2: Analysis of Speech and Audio Signals**

**Room: 105**

**Type: Poster**

**December 9, 11:00 AM to 12:30 PM**

**Sat-M-P-2-1: Multi-source DOA Estimation Method Based on the Signal Subspace within the RSP Domain**

Haiwei Duan (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*

**Sat-M-P-2-2: Multi-Branch Network with Cross-domain Feature Fusion for Anomalous Sound Detection**

Wenjie Fang (Xinjiang University)\*; Ying Hu (Xinjiang University); Xin Fan (Xinjiang University)

**Sat-M-P-2-3: 基于声矢量传感器网络的声源定位算法**

Wangzhe Jin (Inner Mongolia University); De Hu (Inner Mongolia University)\*; Xu Wang (Inner Mongolia University); Rui Liu (Inner Mongolia University)

**Sat-M-P-2-4: ADA-SID: 基于无监督对抗域自适应解决歌手识别中的专辑效应问题**

Yu Xiao (Tianjin University)\*; Wenhuan Lu (Tianjin University); Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China); Ruiteng Zhang (Tianjin University); Yuting Zhao (Tianjin University)

**Sat-M-P-2-5: Singular Spectrum Harmonic Decomposition for the non-stationary analysis of vibration signals**

Zhang Hongcheng (天津大学)\*

**Sat-M-P-2-6: Integration of Short-Term and Long-Term Harmonic Peaks in a Two-Level Discriminative Weight Training Framework for Voice Activity Detection**

Yingwei Tan (Volkswagen-Mobvoi (Beijing) Information Technology Co., Ltd)\*



**Sat-M-P-2-7: Respiratory Sound Classification based on Self-Supervised Model**

Shiyu Miao (Xiamen University)\*; Qi Su (Xiamen University); Yishuang Li (Xiamen University); Lin Li (Xiamen University); Qingyang Hong (Xiamen University)

**Sat-M-P-2-8: Iteratively Refined multi-channel Speech Separation Based on Beam-TFDPRNN**

Xu Zhang (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*

**Sat-M-P-2-9: Improving the Performance of Speech SSL Student Model by Fusing FBANK in Knowledge Distillation**

Qiuyi Lu (Xinjiang University)\*; Liang He (Tsinghua University); Yuanyuan Leng (Xinjiang University)

**Sat-M-P-2-10: Noise-Aware Masked Autoencoders for Voice Activity Detection**

Yingwei Tan (Volkswagen-Mobvoi (Beijing) Information Technology Co., Ltd)\*; Xuefeng Ding (Volkswagen-Mobvoi (Beijing) Information Technology Co., Ltd)

**Sat-M-P-2-11: Fine-Grained Heart Sound Classification for Congenital Heart Defects Using Multiple Deep Learning Techniques**

Yiyang Jiang (Shanghai Artificial Intelligence Laboratory); Zihan Zhao (Shanghai Jiao Tong University)\*; Yuxin Duan (Shanghai Jiao Tong University); Yan-Feng Wang (Cooperative medianet innovation center of Shanghai Jiao Tong University); Xin Sun (Xinhua Hospital Affiliated To Shanghai Jiaotong University School Of Medicine); Yu Wang (Shanghai Jiao Tong University)

**Sat-M-P-3: Human-Machine Interaction**

**Room: 105**

**Type: Poster**

**December 9, 11:00 AM to 12:30 PM**

**Sat-M-P-3-1: A Study of Mispronunciation Detection and Diagnosis Based on Meta-learning**

Yukai Wan (Beijing Language & Culture University SAIT Lab)\*; Yuqi Shi (Beijing Language and Culture University); Binghui Lin (Tencent Technology Co.); Yanlu Xie (Beijing Language and Culture University)

**Sat-M-P-3-2: Time-Frequency Generative Adversarial Network with Transformer Module for Packet Loss Concealment**

Yunhao Zhao (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*

**Sat-M-P-3-3: 回放样本增强的持续学习**

Rui Niu (Tsinghua University)\*; Zhiyong Wu (Tsinghua University); Jia Jia (Tsinghua University)

**Sat-M-P-3-4: A System Self-Noise Suppression Method based on Multi-modal and Perceptual Loss Function**

Yan Zhou (Northwestern Polytechnical University)\*

**Sat-M-P-3-5: 聋人健美操视频学习注意力机制研究**

Yu Chen (Tianjin University of Technology)\*; 王王明华 (天津理工大学); Ju Zhang (Tianjin University); 李红艳 (天津理工大学)

**Sat-M-P-4: ASRU Paper Seminar: Showcasing and Discussing**

**Room: 105**

**Type: Poster**

**December 9, 11:00 AM to 12:30 PM**

**Sat-M-P-4-1: An Exploration of Task-decoupling on Two-stage Neural Post Filter for Real-time Personalized Acoustic Echo Cancellation**

Presenter: 张子晗 (西北工业大学)

**Sat-M-P-4-2: Bayesian Sample Selection for Speech-based In-context Learning**

Presenter: 王嗣尹 (清华大学)

**Sat-M-P-4-3: BiSinger: Bilingual Singing Voice Synthesis**

Presenter: 周华丽 (武汉大学)

**Sat-M-P-4-4: Efficient Text-Only Domain Adaptation for CTC-based ASR**

Presenter: 龚勋 (上海交通大学)

**Sat-M-P-4-5: Exploring Effective Distillation of Self-Supervised Speech Models for Automatic Speech Recognition**

Presenter: 唐昌礼 (清华大学)

**Sat-M-P-4-6: Fast-HuBERT: An Efficient Training Framework for Self-Supervised Speech Representation Learning**

Presenter: 杨冠柔 (上海交通大学)

**Sat-M-P-4-7: FAT-HuBERT: Front-end Adaptive Training of Hidden-unit BERT for Distortion-Invariant Robust Speech Recognition**

Presenter: 杨冬宁 (上海交通大学)

**Sat-M-P-4-8: Haha-Pod: An Attempt for Laughter-based Non-Verbal Speaker Verification**

Presenter: Yuke Lin (杜克昆山大学)

**Sat-M-P-4-9: HiGNN-TTS : Hierarchical Prosody Modeling with Graph Neural Networks for Expressive Long-form TTS**

Presenter: 郭大可 (西北工业大学)

**Sat-M-P-4-10: Improving Speech Enhancement Using Audio Tagging Knowledge from Pre-trained Representations and Multi-task Learning**

Presenter: 林少雄 (上海交通大学)

**Sat-M-P-4-11: SALT: Distinguishable Speaker Anonymization Through Latent Space Transformation**

Presenter: 吕元骏 (西北工业大学)

**Sat-M-P-4-12: Spike-Triggered Contextual Biasing for End-to-End Mandarin Speech Recognition**

Presenter: 黄凯勋 (西北工业大学)

**Sat-M-P-4-13: Transferring speech-generic and depression-specific knowledge for Alzheimer's disease detection**

Presenter: Ziyun Cui (清华大学)

**Sat-M-P-4-14: VITS-Based Singing Voice Conversion Leveraging Whisper and multi-scale F0 Modeling**

Presenter: 宁子谦 (西北工业大学)

**Sat-M-P-4-15: VoiceExtender: Short-utterance Text-independent Speaker Verification with Guided Diffusion Model**

Presenter: 张旭龙 (平安科技)

**Sat-M-P-4-16: ZERO-SHOT EMOTION TRANSFER FOR CROSS-LINGUAL SPEECH SYNTHESIS**

Presenter: 李玉珂 (西北工业大学)

**Sat-M-YF: Young Forum 1**

**Room: 206**

**Type: Young Forum**

**December 9, 1:30 PM to 3:00 PM**

**Chair: 张晓雷老师**

**Sat-M-YF-1: 大语言模型的原理、实现及应用**

Presenter: 车万翔老师, 哈尔滨工业大学计算学部长聘教授, 人工智能研究院副院长

**Sat-M-YF-2: AI for Cross-Modal Interaction: Speech-Driven Human Body Language Generation**

Presenter: 刘李老师, 香港科技大学 (广州) 人工智能学域助理教授

**Sat-M-YF-3: 广域海洋水下多目标被动声学感知**

Presenter: 朱晨阳老师, 南京邮电大学通信与信息工程学院副研究员

**Sat-A-O-1: Speaker Recognition: Verification and Diarization**

**Room: 108**

**Type: Oral**

**December 9, 3:15 PM to 5:15 PM**

**Chair: 张晓雷老师**

**Sat-A-O-1-1: A simple unsupervised linear multi-domain adaptation approach for deep speaker embedding**

Wan Lin (CSLT, BNRist, Tsinghua University)\*

**Sat-A-O-1-2: BER: Balanced Error Rate For Speaker Diarization**

Tao Liu (Shanghai Jiao Tong University)\*; Shuai Fan (AiSpeech); Kai Yu (Shanghai Jiao Tong University)

**Sat-A-O-1-3: Semi-supervised Speaker Verification System Based on Pre-trained Model**

Yishuang Li (Xiamen University)\*; Zhicong Chen (Xiamen University); Shiyu Miao (Xiamen University); Qi Su (Xiamen University); Lin Li (Xiamen University); Qingyang Hong (Xiamen University)

**Sat-A-O-1-4: The DKU-MSXF Diarization System for the VoxCeleb Speaker Recognition Challenge 2023**

Ming Cheng (Duke Kunshan University)\*; Weiqing Wang (Data Science Research Center, Duke Kunshan University, China); Xiaoyi Qin (Dukekunshan University); Yuke Lin (Wuhan University); Ning Jiang (Mashang Consumer Finance Co., Ltd.); Guoqing Zhao (Mashang Consumer Finance Co., Ltd); Ming Li (Duke Kunshan University)

**Sat-A-O-1-5: Adapting Universal Perturbation with Improved Perceptual Loss for High-quality Adversarial Examples Generation to Speaker Identification**

Zuhai Li (University of Science and Technology of China)\*; Wu Guo (University of Science and Technology of China)

**Sat-A-O-1-6: Within- and Between-Class Sample Interpolation Based Supervised Metric Learning for Speaker Verification**

Jian-Tao Zhang (University of Science and Technology of China); Hao-Yu Song (The Australian National University); Wu Guo (University of Science and Technology of China); Yan Song (USTC)\*; Lirong Dai (University of Science and Technology of China)

**Sat-A-O-1-8: Joint Optimization of Speaker Extraction and Diarization**

Junyi Ao (The Chinese University of Hong Kong (Shenzhen))\*; Gui Chi (The Chinese university of HongKong (shenzhen)); Meng Ge (Tianjin University); Jingru Lin (National University of Singapore); Shuai Wang (Shenzhen Institute of Big Data); Haizhou Li (The Chinese University of Hong Kong (Shenzhen))

**Sat-A-O-1-7: 通过多层次域适配器增强跨域说话人验证**

Wen Huang (SJTU)\*; Bing Han (Shanghai Jiao Tong University); Shuai Wang (Shenzhen Research Institute of Big Data); Zhengyang Chen (Shanghai Jiao Tong University); Yanmin Qian (Shanghai Jiao Tong University)

**Sat-A-O-2: Source Separation, Localization and Speech Enhancement**

**Room: 104**

**Type: Oral**

**December 9, 3:15 PM to 5:15 PM**

**Chair: 付强老师**

**Sat-A-O-2-1: A Lightweight Music Source Separation Model with Graph Convolution Network**

Mengying Zhu (Xinjiang University)\*; Ying Hu (Xinjiang University); Liusong Wang (Xinjiang University)

**Sat-A-O-2-2: Ultra-Low Complexity Residue Echo and Noise Suppression Based on Recurrent Neural Network**

Jianquan Zhou (tencent)\*; Jacky Gao (Tencent Chengdu Branch); Serrie Zhang (tencent)

**Sat-A-O-2-3: Simultaneous Speech Extraction for Multiple Target Speakers under the Meeting Scenarios**

Bang Zeng (Wuhan University)\*; Hongbin Suo (OPPO); Yulong Wan (OPPO); Ming Li (Duke Kunshan University)

**Sat-A-O-2-4: A Framework Combining Separate and Joint Training for Neural Vocoder-Based Monaural Speech Enhancement**

Qiaoyi Pan (Shanghai Jiao Tong University)\*; Wenbin Jiang (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University)

**Sat-A-O-2-5: Iteration Noisy-target Approach: Speech Enhancement without Clean Speech**

Yifan Zhang (Shanghai Jiao Tong University)\*; Wenbin Jiang (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University)

**Sat-A-O-2-6: Multi-Resolution Speech Representations for Speech Enhancement and Separation**

Jingru Lin (National University of Singapore)\*; Wupeng Wang (NUS); Meng Ge (Tianjin University); Haizhou Li (The Chinese University of Hong Kong (Shenzhen))

**Sat-A-O-2-7: Joint time-domain and frequency-domain progressive learning for single-channel speech enhancement and recognition**

Gongzhen Zou (University of Science and Technology of China)\*; Jun Du (University of Science and Technology of China); Shutong Niu (University of Science and Technology of China ); Hang Chen (USTC); Chin-Hui Lee (Georgia Institute of Technology); Yuling Ren (china mobile online services company limited); Qinglong Li (China Mobile Online Services Company Limited); Ruibo Liu (China Mobile Online Services Company Limited)

**Sat-A-O-2-8: 基于卡尔曼滤波与频率聚焦的单声源到达方向实时估计与跟踪方法**

Jing Zhou (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*; Haiwei Duan (Beijing University of Technology)

**Sat-A-SS: 语音交流中的神经生理信号解码及其应用**

**Room: 206**

**Type: Special Session**

**December 9, 3:15 PM to 5:15 PM**

**Organizer: 陈霏老师, 张结老师**

**Chair: 陈霏老师**

**Sat-A-SS-1: EEG-based Multi-class Auditory Attention Decoding of Attended Speaker Direction**

Presenter: 卢晶老师, 南京大学教授

**Sat-A-SS-2: EEG-based auditory attention decoding with audiovisual speech for hearing-impaired listeners**

Presenter: 陈婧, 北京大学研究员

**Sat-A-SS-3: Sparse EEG Channel Selection for Brain-Assisted Speech Enhancement**

Presenter: 张结老师, 中国科学技术大学副研究员

**Sat-A-SS-4: 解码汉语发音想象及其脑机接口应用**

Presenter: 陈霏老师, 南方科技大学教授

**Sat-A-SS-5: Graph Self-Distillation for EEG-Based Auditory Spatial Attention Detection**

Presenter: 范存航老师, 安徽大学副教授

**Sat-A-SS-6: 听声辨位——基于脑电的空间听觉注意检测**

Presenter: 白艳茹老师, 天津大学副教授

**Sat-A-P-1: Speech Recognition and Keyword Spotting**

**Room: 105**

**Type: Poster**

**December 9, 3:15 PM to 5:15 PM**

**Sat-A-P-1-1: Exploring the Use of Large Language Models for Text-based Domain Adaptation in Automatic Speech Recognition**

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

**Sat-A-P-1-2: Task-adaptive Generative Adversarial Network based Speech Dereverberation for Robust Speech Recognition**

Liu Ji (TianJin University)\*

**Sat-A-P-1-3: Pseudo Label Refining for Semi-supervised Automatic Speech Recognition**

Jin Zezhong (Polyu)\*; Ruochen Zhang (Polyu)

**Sat-A-P-1-4: Semi-supervised Learning for Multilingual ASR Using Articulatory Features**

Xinmei Su (Beijing Institute of Technology)\*; Xiang Xie (Beijing Institute of Technology); Chenguang Hu (Beijing Institute of Technology); Jing Wang (Beijing Institute of Technology)

**Sat-A-P-1-5: Knowledge-driven Text Generation for Zero-shot ASR Domain Adaptation**

Xizhuo Zhang (Shanghai Jiao Tong University)\*; Baochen Yang (Shanghai Jiao Tong University); Sen Liu (Shanghai Jiao Tong University); Yiwei Guo (Shanghai Jiao Tong University); Zheng Liang (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University)

**Sat-A-P-1-6: Self-Supervised Regularization for End-to-End Automatic Speech Recognition**

Xianghu Yue (National University of Singapore)\*; Jingru Lin (National University of Singapore); Xiaoxue Gao (National University of Singapore); Junyi Ao (The Chinese University of Hong Kong (Shenzhen)); Duo Ma (The Chinese University of Hong Kong, Shenzhen); Meng Ge (Tianjin University); Haizhou Li (The Chinese University of Hong Kong, Shenzhen)

**Sat-A-P-1-7: Improving VAD Performance in Long-form Noisy Condition Through ASR Integration**

Bingqing Zhu (AISpeech)\*; Shaofei Xue (AISpeech)

**Sat-A-P-1-8: 利用方言信息改进藏语多方言语音识别**

Qinya Zhang(Northwest Minzu University)\*

**Sat-A-P-1-9: Leveraging Synthetic Speech for CIF-based Customized Keyword Spotting**

Shuiyun Liu (Northwestern Polytechnical University)\*; Ao Zhang (Northwestern Polytechnical University); Lei Xie (NWPU)

**Sat-A-P-1-10: TA-KWS: 基于测试时间自适应的开放语音指令词识别技术**

Huang Jiayi (Shanghai Jiao Tong University)\*; Meng Shan (Shanghai Jiao Tong University)

**Sat-A-P-1-11: Adopting Multilingual ASR Foundation Models for Low-Resource Languages**

Han Zhu (University of Chinese Academy of Sciences)\*; Jie Zheng (Institute of Acoustics, Chinese Academy of Sciences); Gaofeng Cheng (Institute of Acoustics, Chinese Academy of Sciences); Liuping Luo (Guangdong Provincial Public Security Department); Qingwei Zhao (Institute of Acoustics, Chinese Academy of Sciences); Pengyuan Zhang (Institute of Acoustics, Chinese Academy of Sciences)

**Sat-A-P-2: Speech Synthesis, Sound Synthesis and Voice Conversion**

**Room: 105**

**Type: Poster**

**December 9, 3:15 PM to 5:15 PM**

**Sat-A-P-2-1: 面向生成语音溯源的分布外检测**

Xinrui Yan (中国科学院自动化研究所)\*; Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); Hao Gu (Institute of Automation, Chinese Academy of Sciences); Jianhua Tao (Department of Automation, Tsinghua University); Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences)

**Sat-A-P-2-2: An Audio anti-spoofing model Using Whisper features and Improved spectro-temporal graph attention networks**

王思远 (新疆大学); Zhihua Huang (Xinjiang university)\*

**Sat-A-P-2-3: 面向任意源话者的端到端声音转换方法**

Yannian Chen (University of Science and Technology of China); Zhen-Hua Ling (University of Science and Technology of China)\*

**Sat-A-P-2-4: Enhancing Robustness of Cross-Domain Voice Conversion with Strong Conditioned Diffusion Models**

Long Xiao (Tsinghua University)\*; Xiang Li (Tsinghua University); Jing Yang (Huawei Inc); Fan Fan (Huawei Inc ); Zhiyong Wu (Tsinghua University)

**Sat-A-P-2-5: 基于特征解耦的语音转换系统设计与实现**

Wei Chen (Shenzhen International Graduate School Tsinghua University)\*; Long Xiao (Tsinghua University); Xintao Zhao (Tsinghua University); Zhiyong Wu (Tsinghua University)

**Sat-A-P-2-6: 互信息和孪生结构增强的语音转换模型**

Pengcheng Li (University of Science and Technology of China); Xulong Zhang (Ping An Technology (Shenzhen) Co., Ltd.); Jianzong Wang (Ping An Technology (Shenzhen) Co., Ltd)\*; Ning Cheng (Ping An Technology (Shenzhen) Co., Ltd); Jing Xiao (Ping An Insurance (Group) Company Of China)

**Sat-A-P-2-7: 基于互信息和文本引导的自动语音表征解耦**

Ziqi Liang (University of Science and Technology of China); Xulong Zhang (Ping An Technology (Shenzhen) Co., Ltd.); Jianzong Wang (Ping An Technology (Shenzhen) Co., Ltd)\*; Ning Cheng (Ping An Technology (Shenzhen) Co., Ltd); Jing Xiao (Ping An Insurance (Group) Company Of China)

**Sat-A-P-2-8: Real-time Automotive Engine Sound Simulation with Deep Neural Network**

Hao Li (Z-one Technology co. Ltd, Shanghai, China); Weiqing Wang (Data Science Research Center, Duke Kunshan University, China); Ming Li (Duke Kunshan University)\*

**Sat-A-P-2-9: 基于深度学习的多轨音乐自动生成与评测方法研究**

Cheng Liu (Nankai University)\*; Yong Qin (Nankai University)

**Sat-A-P-2-10: Contextual Spectrum and Prosody Integration for Text-Based Speech Editing**

Zheng Liang (Shanghai Jiao Tong University)\*; Chenpeng Du (Shanghai Jiao Tong University); Kai Yu (Shanghai Jiao Tong University); Xie Chen (Shanghai Jiaotong University)

**Sat-A-P-2-11: Explore Speaker Adaptation Text-to-Speech Method Based ProbSparse Self-attention**

Yuanyuan Leng (Xinjiang University)\*; Liang He (Tsinghua University)

**Sat-A-P-2-12: EEG-Based Speech Envelope Decoding: Structured State Space and U-Net Model Integration**

Yueqian Lin (Duke Kunshan University); Ming Li (Duke Kunshan University)\*

**Sat-A-P-2-13: Cross-Speaker Emotion Transfer Through Disentangling Speaker and Emotion Attributes in Emotional Speech Synthesis**

Mingming Yin (Xinjiang University); Zihua Huang (Xinjiang university)\*; Kexin Lu (Xinjiang University)

**Sat-A-P-2-14: 文本预训练在 TTS 声学模型中的应用**

Shuoyi Zhou (Tsinghua University)\*; Yixuan Zhou (Tsinghua University); Shun Lei (Tsinghua University); Changhe Song (Tsinghua University); Zhiyong Wu (Tsinghua University); Jia Jia (Tsinghua University)

**Sat-A-P-2-15: 完全端到端的藏语语音合成方法研究**

Lhakpa Dondrub (Tibet University)\*

**Sat-E-IND: Industry Forum 2**  
**Room: 107**  
**Type: Industry Forum**  
**December 9, 6:30 PM to 7:45 PM**  
**Chair: 刘瑞老师**

18:30-19:00

**Sat-E-IND-1: 大规模语音应用中的落地思考**

Presenter: 熊世富 (科大讯飞)

19:00-19:15

**Sat-E-IND-2: 大模型时代的语音技术发展**

Presenter: 郝玉峰 (海天瑞声)

19:15-19:30

**Sat-E-IND-3: 基于数据大模型的数据标注平台**

Presenter: 周彤 (标贝科技)

**Sat-E-SS: 多模态识别竞赛**  
**Room: 206**  
**Type: Special Session**  
**December 9, 6:30 PM to 7:45 PM**  
**Organizer: 李科老师**  
**Chair: 王东老师**



## Sunday, December 10

**Sun-M-PLN-1: 多体微观智能：快速算法与软件**

**Room: 206**

**Type: Plenary**

**December 10, 9:00 AM to 9:45 AM**

**Presenter: 金石老师**

**Chair: 凌震华老师**

**Sun-M-PLN-2: Seeing to Hear Better**

**Room: 206**

**Type: Plenary**

**December 10, 9:45 AM to 10:30 AM**

**Presenter: 李海洲老师**

**Chair: 凌震华老师**

**Sun-M-O-1: Miscellaneous: Multimodal System, Language Model, and Other**

**Room: 108**

**Type: Oral**

**December 10, 11:00 AM to 12:30 PM**

**Chair: 吴志勇老师**

**Sun-M-O-1-1: DSNet: Disentangled Siamese Network with Neutral Calibration for Speech Emotion Recognition**

Chengxin Chen (The Institute of Acoustics of the Chinese Academy of Sciences)\*; Pengyuan Zhang ( Institute of Acoustics, Chinese Academy of Sciences)

**Sun-M-O-1-2: Emotional Support Dialog System Through Recursive Interactions Among Large Language Models**

Keqi Chen (Beijing University of Posts and Telecommunications)\*; Huijun Lian (Beijing University of Posts and Telecommunications); Yingming Gao (Beijing University of Posts and Telecommunications); Ya Li (Beijing University of Posts and Telecommunications)

**Sun-M-O-1-3: A Study on Domain Adaptation for Audio-visual Speech Enhancement**

Chenxi Wang (University of Science and Technology of China)\*; Hang Chen (USTC); Jun Du (University of Science and Technology of China); Chenyue Zhang (University of Science and Technology of China); Yuling Ren (china mobile online services company limited); Qinglong Li ( china mobile online services company limited); Ruibo Liu ( china mobile online services company limited); Chin-Hui Lee (Georgia Institute of Technology)

**Sun-M-O-1-4: Adaptive Alignment for Audio-Visual Speech Separation**

Xinyuan Wu (Shanghai Jiao Tong University); Yifei Wu (Shanghai Jiao Tong University); Chenda Li (Shanghai Jiao Tong University); Jiahong Li (Shanghai Jiao Tong University)\*; Yanmin Qian (Shanghai Jiao Tong University)

**Sun-M-O-1-5: Combing acoustic and behavioristic analysis of Dysarthria characteristics in subacute stroke patients**

Yanbo Wang (Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences)\*

**Sun-M-O-1-6: A Comparative Study of Pre-trained Audio and Speech Models for Heart Sound Detection**

Yuxin Duan (Shanghai Jiao Tong University); Chenyu Yang (Shanghai Jiao Tong University); Zihan Zhao (Shanghai Jiao Tong University); Yiyang Jiang (Shanghai Artificial Intelligence Laboratory); Yan-Feng Wang (Cooperative medianet innovation center of Shanghai Jiao Tong University); Yu Wang (Shanghai Jiao Tong University)\*

**Sun-M-O-1-7: 面向知识图谱补全的自适应多教师蒸馏策略**

Yujie Chen (Anhui University)\*; Jiangyan Yi (National Laboratory of Pattern Recognition, Institute of Automation, 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)

**Sun-M-O-2: Human-Machine Interaction and Sound Event Detection**

**Room: 104**

**Type: Oral**

**December 10, 11:00 AM to 12:30 PM**

**Chair: 吴梦玥老师**

**Sun-M-O-2-1: Unraveling Predictive Mechanism in Speech Perception and Production: Insights from EEG analyses of Brain Network Dynamics**

Bin Zhao (Institute of Linguistics, Chinese Academy of Social Sciences)\*; Gaoyan Zhang (Tianjin University); Jianwu Dang (School of Computer Science and Technology, Tianjin University, Tianjin, China; School of Information Science, Japan Advanced Institute of Science and Technology, Ishikawa, Japan); Longbiao Wang (Tianjin University); Zhongjie Li (Tianjin University); Aijun Li ("Institute of Linguistics, CASS")

**Sun-M-O-2-2: A Packet Loss Concealment Method Based on the Demucs Network Structure**

Wenwen Li (Beijing University of Technology); Changchun Bao (Beijing University of Technology)\*

**Sun-M-O-2-3: Data Augmentation By Finite Element Analysis for Enhanced Machine Anomalous Sound Detection**

Zhixian Zhang (Duke Kunshan University)\*; Yucong Zhang (Duke Kunshan University); Ming Li (Duke Kunshan University)

**Sun-M-O-2-4: DP-MAE: A Dual-Path Masked AutoEncoder Based Self-Supervised Learning Method for Anomalous Sound Detection**

Wei-Lin Xie (University of Science and Technology of China); Haoyu Song (The Australian National University); Xiaomin Zeng (University of Science and Technology of China)\*; Lirong Dai (University of Science and Technology of China); Yan Song (USTC)

**Sun-M-O-2-5: 基于动态主代理损失的深度度量学习方法**

Ruihao Jing (Northwestern Polytechnical University)\*; Lei Zhao (Northwestern Polytechnical University); Zhang Xiaolei (Northwestern Polytechnical University)

**Sun-M-O-2-6: “普通话七音” 在线听力测试系统研发与应用效果测试**

Yu Chen (Tianjin University of Technology)\*; Yu Bai (天津理工大学); Ju Zhang (Tianjin University)

**Sun-M-SF: Student Forum 1**

**Room: 206**

**Type: Student Forum**

**December 9, 11:00 AM to 12:30 PM**

**Chair: 王龙标老师**

11:00-11:08

**Sun-M-SF-1: Learning From Yourself: A Self-Distillation Method for Fake Speech Detection**

Presenter: 薛军 (安徽大学)

11:08-11:16

**Sun-M-SF-2: 基于并行分支循环注意力的时频域语音分离方法**

Presenter: 杨雪 (北京工业大学)

11:16-11:24

**Sun-M-SF-3: 一种低延时鲁棒 MVDR 波束形成器的设计方法**

Presenter: 周静 (北京工业大学)

11:24-11:32

**Sun-M-SF-4: 基于预训练网络的半监督声音事件检测**

Presenter: 徐亮 (北京理工大学)

11:32-11:40

**Sun-M-SF-5: 基于汉语中介语料库的二语韵律边界偏误检测**

Presenter: 李瑞珊 (北京语言大学)

11:40-11:48

**Sun-M-SF-6: 海口普通话“子”缀的轻声分布差异**

Presenter: 钱薪屹 (北京语言大学)

11:48-11:56

**Sun-M-SF-7: Anomalous Sound Detection Using Self-Attention-Based Frequency Pattern Analysis of Machine Sounds**

Presenter: 张合静 (哈尔滨工程大学)

11:56-12:04

**Sun-M-SF-8: 面向声音事件检测的特征及决策解耦初探**

Presenter: 高利剑 (江苏大学)

12:04-12:12

**Sun-M-SF-9: 跨年龄说话人确认: 学习年龄不变的说话人表征**

Presenter: 覃晓逸 (昆山杜克大学)

12:12-12:20

**Sun-M-SF-10: 基于神经同态合成的语音增强研究**

Presenter: 何树林 (内蒙古大学)

**Sun-M-P-1: Phonetics, Phonology and Prosody**

**Room: 105**

**Type: Poster**

**December 10, 11:00 AM to 12:30 PM**

**Sun-M-P-1-1: 基于依存句法的越南母语者汉语语音韵律结构考察**

Yuqi Shi (Beijing Language and Culture University)\*; Yukai Wan (Beijing Language & Culture University SAIT Lab); Hao Yang (Beijing Language and Culture University); Jinsong Zhang (Beijing Language and Culture University)

**Sun-M-P-1-2: 基于大语言模型的语音合成前端训推一体化增强方法研究**

刘旺 (中国科学院大学)\*; Ruibo Fu (National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences); Wen Zhengqi (CASIA)

**Sun-M-P-1-3: 汉语歧义句阅读加工的行为实验研究: 语音意识与内隐韵律**

Xexin Zhang (Tongji University)\*

**Sun-M-P-1-4: The Impact of Mandarin Tonal Coarticulation Mismatch on Auditory Perception**

Yujia Liu (Beijing Language and Culture University)\*; Jinsong Zhang (Beijing Language and Culture University); Xin Chen (Fudan University); Yukai Wan (Beijing Language & Culture University SALT Lab); Chong Cao (Beijing Language and Culture University); Xiaoyue Zhang (Zhejiang Media Group)

**Sun-M-P-1-5: 基于四种句型对比的汉语普通话“友好”态度韵律特征的研究**

Jiawei Song (School of Foreign Languages, UESTC)\*; Yutong Wang (School of Foreign Languages, UESTC); Yuzhen Zhang (School of Foreign Languages, UESTC)

**Sun-M-P-1-6: The Effect of Language Experience on Cues for Tone Perception**

Xiaoying Xu (Beijing Normal University)\*; Yi Zhang (Beijing Normal University); Lishan Li (Beijing Normal University)

**Sun-M-P-1-7: 基于虚词特征的藏语韵律单元选取方法**

Lhakpa Dondrub (Tibet University)\*

**Sun-M-P-1-8: Chinese EFL Learners' Auditory and Visual Perception of English Statement and Question Intonation: The Effect of Stress**

Qiunan Xu (南京理工大学)\*

**Sun-M-P-1-9: 俄语母语者普通话舌尖元音习得研究**

姬凌波 (北京语言大学)\*; Jinsong Zhang (Beijing Language and Culture University); Liangjie Huang (Beijing Language and Culture University); 姚文翰 (北京语言大学); 李紫叶 (北京语言大学)

**Sun-M-P-1-10: The Production of Successive Addition Boundary Tone in Mandarin Preschoolers**

Aijun Li ("Institute of Linguistics, CASS")\*; Jun Gao (Institute of Linguistics, Chinese Academy of Social Sciences); Zhiwei Wang (BISU)

**Sun-M-P-1-11: Music Experience Enhances Categorical Perception of English Vowels in Mandarin Speakers**

Jiayu Liang (Shandong University)\*; Hao Zhang (Shandong University)

**Sun-M-P-1-12: 音高和发声类型在吴语常熟方言声调感知中的相互作用**

姚程栋 (南京师范大学)\*

**Sun-M-P-1-13: 话剧演员和学员舞台音的声学特征分析**

钱昭璇 (北京师范大学文学院)\*; 郭人榕 (北京师范大学文学院); 汪高武 (北京师范大学文学院)

**Sun-M-P-1-14: Acoustic Study on the Friction of the i Vowel in Qingpu Wu Chinese**

Yan Zhao (East China Normal University)\*; Junru Wu (East China Normal University)

**Sun-M-P-1-15: The Effect of Fundamental Frequency Contour on The Intelligibility of Uyghur Sentences**

Jingyi Song (Xinjiang University); Zhihua Huang (Xinjiang university)\*; Ruilin Wu (Xinjiang University); Xiaoming Liang (Xinjiang University)

**Sun-M-P-1-16: English Consonant Pronunciation Errors Research among Chinese K12 Learners of Different Ages**  
Yilin Tao (University of Chinese Academy of Sciences)\*

**Sun-M-P-1-17: 从感知角度看嘉兴方言阳上调和阳去调的合并**  
Qing Yao (Tongji University)\*

**Sun-M-P-2: Emotion Recognition, Spoken Language Processing and Digital Human Modeling**

**Room: 105**

**Type: Poster**

**December 10, 11:00 AM to 12:30 PM**

**Sun-M-P-2-1: Semi-End-to-End Nested Named Entity Recognition from Speech**

Min Zhang (Huawei)\*; Xiaosong Qiao (Huawei); Yanqing Zhao (Huawei); Chang Su (Huawei); Yuang Li (Huawei); Yinglu Li (HUAWEI TECHNOLOGIES CO., LTD.); Mengyao Piao (Huawei); Song Peng (Huawei); Shimin Tao (Huawei); Hao Yang (Huawei)

**Sun-M-P-2-2: 动量对比学习实现跨模态嵌入对齐提升端到端口语理解**

Zheng Bei Da (Xinjiang University)\*

**Sun-M-P-2-3: Beyond Classification: A Label-aware Prompt-based Framework for Joint Multiple Intent Detection and Slot Filling**

Zhihong Zhu (Peking University)\*; Yuexian Zou (Peking University)

**Sun-M-P-2-4: A Fast Sampling Method in Diffusion-based Dance Generation Models**

Puyuan Guo (Beijing University of Posts and Telecommunications)\*; Yichen Han (Beijing University of Posts and Telecommunications); Yingming Gao (Beijing University of Posts and Telecommunications); Ya Li (Beijing University of Posts and Telecommunications)

**Sun-M-P-2-5: 一种基于扩散模型的情绪可定制的肖像动化方法**

Bingyuan Zhang (Ping An Technology (Shenzhen) Co., Ltd., Shenzhen, China); Xulong Zhang (Ping An Technology (Shenzhen) Co., Ltd.); Jianzong Wang (Ping An Technology (Shenzhen) Co., Ltd)\*; Ning Cheng (Ping An Technology (Shenzhen) Co., Ltd); Jing Xiao (Ping An Insurance (Group) Company Of China)

**Sun-M-P-2-6: 基于单帧图像的语音驱动情感化数字人生成**

Tianze Zhou (Tsinghua University)\*; Liyang Chen (Tsinghua University); Zhiyong Wu (Tsinghua University); Jia Jia (Tsinghua University)

**Sun-M-P-2-7: 基于情绪氛围软标签的对话情绪识别**

Xiaolong Wu (Xinjiang University)\*; Yiyang Zhao (Tsinghua University); Mingxing Xu (Tsinghua University); Thomas Fang Zheng ("CSLT, Tsinghua University"); Askar Hamdulla (Xinjiang University)

**Sun-M-P-2-8: 基于文本模态引导注意力融合的多模态情感识别方法**

苗阳 (东北林业大学)\*

**Sun-M-P-2-9: A Transformer Based Speech-Text Modality Experts for Multimodal Emotion Recognition**

Weixiang Xu (Hunan University)\*; Zixing Zhang (Hunan University)

**Sun-A-O-1: Speech Synthesis, Sound Synthesis and Voice Conversion****Room: 108****Type: Oral****December 10, 1:30 PM to 3:30 PM****Chair: 凌震华老师****Sun-A-O-1-1: Zero-shot Singing Voice Conversion Based on Timbre Space Modeling and Excitation Signal Control**

Yuan Jiang (University of Science and Technology of China); Yannian Chen (University of Science and Technology of China); Lijuan Liu (iflytek); Yajun Hu (iflytek); Xin Fang (iFlytek Research); Zhen-Hua Ling (University of Science and Technology of China)\*

**Sun-A-O-1-2: One-shot Voice Conversion based on Speaker Self-supervised Speech Representation and Dynamic Convolution**

Na Guo (Tianjin university)\*; Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China)

**Sun-A-O-1-3: Leveraging Content-based Features from Multiple Acoustic Models for Singing Voice Conversion**

Xueyao Zhang (The Chinese University of Hong Kong, Shenzhen)\*; Yicheng Gu (The Chinese University of Hong Kong, Shenzhen); Haopeng Chen (The Chinese University of Hong Kong, Shenzhen); Zihao Fang (The Chinese University of Hong Kong, Shenzhen); Lexiao Zou (Harbin Institute of Technology (Shenzhen)); Liumeng Xue (The Chinese University of Hong Kong, Shenzhen); Zhizheng Wu (Chinese University of Hong Kong, Shenzhen)

**Sun-A-O-1-4: CLAUDIO: Clustering, Augmentation, and Discriminator for Foley Sound Synthesis**

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

**Sun-A-O-1-5: Research on Prosody Prediction of Tibetan Language Based on Speech Synthesis Task**

Zom Yang (Qinghai Minzu University)\*; Peng Luo (Qinghai Normal University); Yi Zhu (Tianjin University); Kuntharrgyal Khysru (Qinghai Minzu University); Daijicao Long (Qinghai Minzu University); Mengfei Hu (Tianjin University); Wenhuan Lu (Tianjin University); Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China)

**Sun-A-O-1-6: Accent-VITS: accent transfer for end-to-end TTS**

Linhan Ma (Northwestern Polytechnical University)\*; Yongmao Zhang (Audio, Speech and Language Processing Group (ASLP@NPU), School Of Computer Science, Placeholder, Xi'an, China); Xinfu Zhu (Northwestern Polytechnical University); Yi Lei (Northwestern Polytechnical University); Ziqian Ning (northwestern Polytechnical University); Pengcheng Zhu (Northwestern Polytechnical University); Lei Xie (Fuxi AI Lab, NetEase Inc.)

**Sun-A-O-1-7: 基于深度学习的蒙古语合成语音检测**

Zhang Jinhua (Inner Mongolia University); Kailin Liang (Inner Mongolia University); Rui Liu (Inner Mongolia University)\*

**Sun-A-O-1-8: 基于强度重映射方法的情感迁移语音合成**

Haoliang Shi (USTC); Xulong Zhang (Ping An Technology (Shenzhen) Co., Ltd.); Jianzong Wang (Ping An Technology (Shenzhen) Co., Ltd)\*; Ning Cheng (Ping An Technology (Shenzhen) Co., Ltd); Jing Xiao (Ping An Insurance (Group) Company Of China)

**Sun-A-O-2: Phonetics, Phonology and Prosody****Room: 104****Type: Oral****December 10, 1:30 PM to 3:30 PM****Chair: 谢焱陆老师**

**Sun-A-O-2-1: Exploring the Generation of Pronunciation Lexicon for Low-Resource Language ASR Based on Generic Phone Recognizer**

Jinpeng Li (Tsinghua University)\*; Xie Chen (Shanghai Jiaotong University); Wei-Qiang Zhang (Tsinghua University)

**Sun-A-O-2-2: An Experimental Study on Correction of Intonation Errors in Chinese Interlanguage**

Rui Wang (Beijing Language and Culture University)\*; Wen Cao (Beijing Language and Culture University)

**Sun-A-O-2-3: Prosodic Cues in Polite Chengdu Dialect Speech Production and the Polite Speech Emotion Recognition of Chengdu Dialect**

Yuxin Wu (Nanjing University)\*; Jiayong He (University of Electronic Science and Technology of China)

**Sun-A-O-2-4: Acoustic Features at Intonational Phrase Boundaries: Comparative Study of Native Speakers and L2 Learners of Chinese Mandarin**

Ruishan Li (Beijing Language and Culture University)\*; Lixia Hao (Dongguan University of Technology); Huang He Ting (Beijing language and culture university); Jinsong Zhang (Beijing Language and Culture University); Yanlu Xie (Beijing Language and Culture University)

**Sun-A-O-2-5: 人工智能语音吸引力的韵律影响因素探究 A Pilot Study on the Prosodic Factors Influencing Voice Attractiveness of AI Speech**

王毅慧 (北京师范大学)\*; 卢浩程 (北京师范大学); Gaowu Wang (Beijing Normal University)

**Sun-A-O-2-6: 普通话学龄前儿童塞音和塞擦音时长特征发展**

Jun Gao (Institute of Linguistics, Chinese Academy of Social Sciences)\*

**Sun-A-O-2-7: 语言冗余和韵律结构对普通话音节时长的影响**

Xiaowang Liu (Beijing Language and Culture University)\*; Jinsong Zhang (Beijing Language and Culture University); Yun Hao (University of Groningen)

**Sun-A-O-2-8: 北京话“吧”字句语气识别的性别差异**

Qixin Li (BNU)\*; Gaowu Wang (Beijing Normal University)

**Sun-A-SF: Student Forum 2**

**Room: 206**

**Type: Student Forum**

**December 10, 1:30 PM to 3:30 PM**

**Chair: 薛少飞老师**

13:30-13:38

**Sun-A-SF-1: 面向声纹识别的隐蔽后门攻击**

Presenter: 叶哲 (宁波大学)

13:38-13:46

**Sun-A-SF-2: 迈向通用语音离散令牌: ASR 和 TTS 案例研究**

Presenter: 杨亦凡 (上海交通大学)

13:46-13:54

**Sun-A-SF-3: 基于簇感知 DINO 的自监督说话人验证**

Presenter: 韩冰 (上海交通大学)

13:54-14:02

**Sun-A-SF-4: Towards More Realistic, Powerful, and Efficient Speech-based Self-Supervised Learning**

Presenter: 马子阳 (上海交通大学)

14:02-14:10

**Sun-A-SF-5: 基于噪声解耦和度量学习的鲁棒说话人识别研究**

Presenter: 孙瑶 (天津大学)

14:10-14:18

**Sun-A-SF-6: 利用位置相关的局部-全局依赖进行合成语音检测**

Presenter: 刘晓晖 (天津大学)

14:18-14:26

**Sun-A-SF-7: 用于多通道语音分离的声源位置感知全神经波束模型**

Presenter: 付燕杰 (天津大学)

14:26-14:34

**Sun-A-SF-8: 用于对话行为识别的基于关系匹配的局部和全局上下文建模研究**

Presenter: 司宇珂 (天津大学)

14:34-14:42

**Sun-A-SF-9: 基于预训练语音表征学习的少监督语音合成**

Presenter: 强春雨 (天津大学)

14:42-14:50

**Sun-A-SF-10: 基于多任务学习的异常声音检测建模和多尺度评分**

Presenter: 章羽聪 (武汉大学)

14:50-14:58

**Sun-A-SF-11: Cross-Age Speaker Verification: Learning Age-Invariant Speaker Embeddings**

Presenter: 覃晓逸 (武汉大学/昆山杜克大学)

14:58-15:06

**Sun-A-SF-12: 基于 ad-hoc 麦克风阵列的多通道语音去混响融合模块**

Presenter: 郭红梅 (西北工业大学)

15:06-15:14

**Sun-A-SF-13: Maximal Speaker Separability via Robust Speaker Representation Learning**

Presenter: 李哲 (香港理工大学)

15:14-15:22

**Sun-A-SF-14: Complex Patterns of Tonal Realization in Taifeng Chinese**

Presenter: 张小砚 (中国社会科学院语言研究所)

15:22-15:30

**Sun-A-SF-15: 基于语音的端到端阻塞性睡眠呼吸暂停检测**

Presenter: 张凯博 (清华大学)



**Sun-A-P-1: Speaker Recognition: Verification and Anti-Spoofing****Room: 105****Type: Poster****December 10, 1:30 PM to 3:30 PM****Sun-A-P-1-1: Review of Explainability Studies in Voiceprint Recognition**

Qi Su (Xiamen University)\*; Shiyu Miao (Xiamen University); Yishuang Li (Xiamen University); Lin Li (Xiamen University); Qingyang Hong (Xiamen University)

**Sun-A-P-1-2: Improving ECAPA-TDNN Performance with Coordinate Attention**

Shuanghong Liu (Xinjiang University)\*; Zhida Song (Xinjiang University); Liang He (Tsinghua University)

**Sun-A-P-1-3: 一种用于说话人确认的局部和全局特征并行提取分支结构——Branch-ECAPA-TDNN**

付先燕 (西北工业大学)\*; Xiaolei Zhang (Northwestern Polytechnical University); Jiadi Yao (Northwestern Polytechnical University)

**Sun-A-P-1-4: Gradient Frequency Attention Distillation for Speaker Verification**

Wenhao W Yang (Tianjin University)\*; Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China); Wenhuan Lu (Tianjin University)

**Sun-A-P-1-5: Word-level Speaker Change Detection for CTC-based ASR**

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

**Sun-A-P-1-6: 基于自适应类边界间隔的说话人识别方法**

赵昊洋 (东北林业大学)\*

**Sun-A-P-1-7: UNSUPERVISED DOMAIN ADAPTATION WITH PSEUDO LABELING FOR ROBUST SPEAKER VERIFICATION**

Bing Han (Shanghai Jiao Tong University)\*; Zhengyang Chen (Shanghai Jiao Tong University); Yanmin Qian (Shanghai Jiao Tong University)

**Sun-A-P-1-8: Voice Cloning-Based Data Augmentation for Speaker Recognition**

Ze Zhong Jin (Polyu)\*

**Sun-A-P-1-9: 基于纹理特征的上下文感知掩蔽说话人验证模型**

Chengli Sun (Guangzhou Maritime University)\*

**Sun-A-P-1-10: Magnitude and Phase-based Feature Fusion Using Co-attention Mechanism for Speaker recognition**

Rongfeng Su (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)\*; Mengjie Du (China Telecom Corporation Ltd. Data & AI Technology Company); Xiaokang Liu (Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences); Lan Wang (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences); Nan Yan (Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)

**Sun-A-P-1-11: Measurement of Rank-based Pruning on Lightweight Speaker Model**

Baowei Zhao (Xinjiang University)\*; Liang He (Tsinghua University)

**Sun-A-P-1-12: An Improved System for Partially Fake Audio Detection Using Pre-trained Model**

Jianqian Zhang (Beijing Institute of Technology)\*; Hanyue Liu (Beijing Institute of Technology); Mengyuan Deng (Beijing Institute of Technology); Jing Wang (Beijing Institute of Technology); Liang Xu (Beijing Institute of Technology); Jiahao Li (Beijing Institute of Technology)

**Sun-A-P-1-13: Replay Attack Detection Based on Raw Waveform and Sinc Filter**

Jian Zhou (Anhui University)\*

**Sun-A-P-1-14: 基于发音基元字典的语音鉴伪方法**

Feng Chen (Harbin Institute of Technology)\*; Jiqing Han (Harbin Institute of Technology); 何勇军 (哈尔滨工业大学); 郑铁然 (哈尔滨工业大学); 郑贵滨 (哈尔滨工业大学)

**Sun-A-P-2: Speech Analysis and Sound Event Detection**

**Room: 105**

**Type: Poster**

**December 10, 1:30 PM to 3:30 PM**

**Sun-A-P-2-1: “一级甲等” 普通话基频特征值统计分析**

Lu Xiyao (Beijing Language and Culture University)\*; Yukai Wan (Beijing Language & Culture University SAIT Lab); Ruishan Li (Beijing Language and Culture University); Jinsong Zhang (Beijing Language and Culture University)

**Sun-A-P-2-2: 海口普通话“子”缀的轻声分布差异**

Xinyi Qian (BLCU)\*; Wen Cao (BLCU)

**Sun-A-P-2-3: 感知训练在泰语母语者汉语声调教学中的效果研究**

Jingyan Shi (Xinjiang University)\*; Zhu Sun (Xinjiang University); Wei Wang (Xinjiang University)

**Sun-A-P-2-4: 声调对汉语言语可懂度的影响探究**

孙亦宸 (新疆大学)\*; 王玮 (新疆大学); Jingyan Shi (Xinjiang University)

**Sun-A-P-2-5: 表示方式的“怎么+VP”歧义结构韵律研究**

Qian Shiqi (Beijing Normal University)\*; Zhou Shihong (Beijing Normal University)

**Sun-A-P-2-6: Sound Event Detection with Soft Labels by Aggregating Pre-trained Embeddings from Different Layers**

Xuenan Xu (Shanghai Jiao Tong University); Ziyang Ma (Shanghai Jiao Tong University); Fei Yang (Shanghai Jiao Tong University)\*; Guanrou Yang (Shanghai Jiao Tong University); Mengyue Wu (Shanghai Jiao Tong University); Xie Chen (Shanghai Jiaotong University)

**Sun-A-P-2-7: A Comparative Study of Deep Learning Methods for Infant Cry Detection**

Qingyu Liu (Shanghai Normal University)\*; Li Li (Shanghai Normal University); Yifan Zhou (Shanghai Normal University); Dongxing Xu (Unisound AI Technology Co., Ltd.); Yanhua Long (Shanghai Normal University)

**Sun-A-P-2-8: 基于改进 EfficientNet 的轻量化鸟鸣识别方法**

Haolun He (Northeast Forestry University)\*

**Sun-A-P-3: Multimodal System and Machine Translation****Room: 105****Type: Poster****December 10, 1:30 PM to 3:30 PM****Sun-A-P-3-1: Label-Free Multi-Domain Machine Translation with Stage-wise Training**

Fan Zhang (communication University of China)\*

**Sun-A-P-3-2: Cross-modal Domain generalization for Ultrasound Tongue Images-based Silent Speech Interfaces**

Minghao Guo (Tianjin University)\*; Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China); Ruiteng Zhang (Tianjin University); Yuting Zhao (Tianjin University); Qiang Fang (Chinese Academy of Social Sciences)

**Sun-A-P-3-3: Joint Training or Not: An Exploration of Pre-trained Speech Models in Audio-Visual Speaker Diarization**

Huan Zhao (Northwestern Polytechnical University)\*; Li Zhang (Northwestern Polytechnical University); Yue Li (Northwestern Polytechnical University); Yannan Wang (Tencent); Hongji Wang (Tencent); Wei Rao (Tencent); Qing Wang (Northwestern Polytechnical University); Lei Xie (NWPU)

**Sun-A-P-3-4: Learning from Parent Classes: a Multimodal Weighted Fusion Transformer with Parent Class Prediction**

Yuxuan Wang (Shanghai Jiao Tong University); Mengyue Wu (Shanghai Jiao Tong University)\*; Kai Yu (Shanghai Jiao Tong University)

**Sun-A-P-3-5: 基于多任务学习和特征解耦技术的超声舌视频语音重建**

Yuting Zhao (Tianjin University)\*; Jianguo Wei (School of Computer Software, Tianjin University, Tianjin, China); Wenhuan Lu (Tianjin University); Yu Xiao (Tianjin University)

**Sun-A-YF: Young Forum 2****Room: 206****Type: Young Forum****December 10, 3:45 PM to 5:15 PM****Chair: 杜俊老师****Sun-A-YF-1: 深度生成语音鉴别和取证溯源**

Presenter: 易江燕老师, 中国科学院自动化所多模态人工智能系统全国重点实验室副研究员

**Sun-A-YF-2: 真实世界语音前端: 从数据仿真到模型设计**

Presenter: 罗艺老师, 腾讯 AI Lab 高级研究员

**Sun-A-YF-3: AI for Sound Understanding: Classification, Detection, and Separation**

Presenter: 孔秋强老师, 香港中文大学电气工程系助理教授

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