Linkai Peng

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https://vocaliodmiku.github.io/

EDUCATION

Beijing Language and Culture University Sep 2019 - Jun 2022

Software Engineering Master

South China Normal University Sep 2015 - Jun 2019

Physics Bachelor

RESEARCH INTERESTS

Automatic Speech Recognition (ASR), Computer-Assisted Pronunciation Training (CAPT), Speech Comprehension, Multimodal analysis of Audio-Lexical content.

I am passionate about using cutting-edge ML technologies to boost the spoken Human-Computer Interaction system. A central focus of my current work is developing self-supervised neural networks to improve ASR related industry products, including ASR, CAPT. I also have an interest in analyses that lie in cross-language perception and production, e.g. the comprehension of L2 speech.

WORK EXPERIENCE

NetEase,YouDao Apr 2022

full-time Artificial Intelligence Engineer. Maintain and develop multiple speech industry products. Beijing

ByteDance AI-Lab Nov 2020 - Feb 2021

Speech Technology Research intern.

Publications

Linkai Peng, Kaiqi Fu, Binghuai Lin, Dengfeng Ke, Jinsong Zhang. "A Study on Fine-Tuning wav2vec2. 0 Model for the Task of Mispronunciation Detection and Diagnosis.", Interspeech 2021.

Rian Bao, **Linkai Peng**, Yuchen Yan, Jinsong Zhang. "An Exploratory Study for Quantifying the Contextual Information for Successful Chinese L2 Speech Comprehension.", ISCSLP 2022.

Linkai Peng, Wang Dai, Dengfeng Ke, Jinsong Zhang. "Multi-scale model for mandarin tone recognition.", ISCSLP 2021.

Linkai Peng, Yingming Gao, Binghuai Lin, Dengfeng Ke, Yanlu Xie, Jinsong Zhang. "Text-Aware End-to-end Mispronunciation Detection and Diagnosis.", Arxiv Preprint 2022.

Rian Bao, **Linkai Peng**, Gingming Gao, Jinsong Zhang. "The Contribution of Phonological and Fluency Factors to Chinese L2 Comprehensibility Ratings: A Case Study of Urdu-speaking Learners.", ISCSLP 2021.

SKILLS LIST

- Program Language: Python, C++, Shell
- Machine Learning framework: Tensorflow, Pytorch
- Speech Toolkits: Kaldi, Espnet,Fairseq,Speechbrain