



THE CHINESE UNIVERSITY OF HONG KONG
Department of Electronic Engineering

SEMINAR

Amphion - An open-source audio, music and speech generation toolkit

By

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Time: 3:00 p.m.

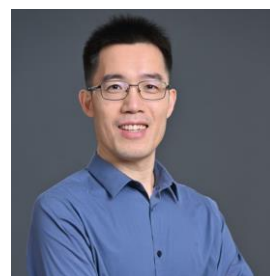
Venue: Rm 222 Ho Sin Hang Engineering Building, The Chinese University of Hong Kong

Abstract:

The North-Star objective of Amphion is to offer a platform for studying the conversion of any inputs into general audio. Amphion is designed to support individual generation tasks. Its purpose is to support reproducible research and help junior researchers and engineers get started in the field of audio, music, and speech generation research and development. Amphion offers a unique feature: visualizations of classic models or architectures. We believe that these visualizations are beneficial for junior researchers and engineers who wish to gain a better understanding of the model. This talk will provide a high-level overview of Amphion.

Biography

Zhizheng Wu is an associate professor at the Chinese University of Hong Kong, Shenzhen. Prior to that, he led teams and performed research at Meta, JD.com, Apple, the University of Edinburgh, and Microsoft Research Asia. Zhizheng received his Ph.D. from Nanyang Technological University, Singapore in 2015. Zhizheng is the creator of Merlin, an open-source speech synthesis toolkit. He initiated and co-organized the first speaker verification spoofing and countermeasures challenge as a special session at Interspeech 2015, the Voice Conversion Challenge 2016, and the Blizzard Challenge 2019. He also gave a tutorial on spoofing detection at APSIPA ASC 2015 and a tutorial on deep learning-based speech synthesis at Interspeech 2017. Zhizheng is an associate editor of IEEE/ACM Transactions on Audio Speech and Language Processing and a member of the IEEE Speech and Language Processing Technical Committee. He is also the General Chair of IEEE Spoken Language Technology Workshop 2024.



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