Tzu-Chun, Oscar, Hsu

Institute of Computer Science and Engineering,
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in tzu-chun-hsu-ab4b3b188   ○ Oscarshu0719

July 7th, 2023

REALTEK

Education

Zhejiang University

Bachelor of Engineering in Computer Science and Technology
Hangzhou, China   09 2016 – 07 2020

National Yang Ming Chiao Tung University

Master of Science in Computer Science and Engineering
Hsinchu, Taiwan   09 2022 – 08 2024 (Expected)

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Projects

1. Chord learning and adversarial framework for symbolic music generation

- Proposed a chord learning framework for multi-track symbolic music generation based on VAE and GAN.
- Introduced WGAN-GP to solve mode collapse and vanishing gradient problem.

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Projects

2. Voice Conversion Based on Generative Adversarial Networks
   - Improved StarGAN-VC2 based on multi-speaker non-parallel corpus.
   - Introduced WGAN-div, AdaIN layer, and neural vocoder, WaveGlow, for better results.

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Projects

3. Synthetic Data Generation using Conditional Normalizing Flows

- Ability to replace original datasets and maintain same data distribution, and also highlight outliers for analysis.
- Built an B/S application to visualize results.

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Awards

CCCC-Mobile Application Innovation Contest

First Prize   09 2018

The 4th "Internet+" Innovation and Entrepreneurship Competition

Gold Award   09 2018

College Students' Innovative Entrepreneurial Training Plan Program (SRTP)

Excellent   04 2018 – 05 2019

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Experience

The University of British Columbia Vancouver Summer Program

Vancouver, Canada   07 2019 – 08 2019

- Included 2 courses, "Algorithms and the World Wide Web" and "Building Modern Web Applications".
- Collaborated with my teammates to complete our projects as team leader.

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Skills

Languages

Python, Java, C, JavaScript

Technologies/Frameworks

PyTorch, Flask, Spring Boot, Vue.js, Git, SQL, MongoDB

Thanks for your attention

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