

Jiashen Ren

2004/04/11

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Work Experience

- 23.06-23.08 **Summer Research**, *DiffSinger-based Voice Enhancement and Synthesis*
College of Computer Science, Zhejiang University, Prof. Zhao Zhou, Outstanding Summer Research Project. DiffSinger utilizes a diffusion probabilistic model as the generative model to convert noise into a Mel-spectrogram based on musical scores (including lyrics, pitch, and duration). Moreover, a shallow diffusion mechanism is proposed to better leverage the prior knowledge learned from a simple loss for improved sound quality and accelerated generation.
- 24.06-24.08 **Summer Research**, *Thermal Simulation of Power Electronic Devices*
International Joint College, Zhejiang University, Prof. Li Chushan; the project uses IcePak for simulation and Matlab to develop a digital twin model of the thermal resistance network for a power electronic converter's cooling system.
- 25.02-25.06 **Teaching Assistant**, *Math285: Introduction to Differential Equations*
International Joint College, Zhejiang University, Prof. Thomas Honold.

Education

- 22.09-26.06 **Bachelor's**, *Zhejiang University*, Electrical Engineering
- Third-Class Scholarship, Zhejiang University
 - Outstanding League Secretary at Zhejiang University
 - Silver Award in the China College Students International Innovation and Entrepreneurship Competition
- 22.09-26.06 **Bachelor's**, *University of Illinois at Urbana-Champaign*, Electrical Engineering
- Digital Systems Laboratory
 - Computing Systems and Programming
 - Digital Signal Processing
 - Algorithm Design and Practice
 - Power and Energy Systems (in progress)
 - Machine Learning (in progress)

Skills

Proficient in Git / Makefile / Python