Zhen Tong

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Education

Chinese University of Hong Kong (Shenzhen)

September 2020 - present (Expected to graduate in June 2024.06)

Junior in computer science

- Dean's Honor of the School of Data Science for the 2020-2021 academic year2020-2021
- College Scholarship for the 2020-2021 academic year
- Core courses: linear algebra, Calculus, discrete Mathematics, optimization, probability statistics, data structure, digital circuit, database, computer composition principle, Algorithm, deep learning, computer vision, computer security

Projects

Hybrid Image Inpainting

https://github.com/ECE-Img-Inpainting/Examplar-based

- Poisson Image Blending
- Exemplar based image inpainting.

Database Development of a Music Application

https://github.com/3170-musk-cattle

- MySQL for data
- Python django
- JS and VUE front-end

Verilog Simulation of MIPS Architecture CPU

https://github.com/58191554/CSC3050_P4

- Verilog implemented
- Simple computer function achieved

Sound classification based on Hidden Markov model and EM algorithm

https://github.com/58191554/HMM-EM

- Python code
- Without EM library

Experience of competition

2022 American Mathematical Modeling Competition H Award (top 18%)

https://github.com/58191554/MCM_ICM-2022_ICM_E-topic

Research Experience

Distributed RL Solving Combinatorial Problem

- Solve VRP and TSP in Distributed RL.

Tools and Techniques

Python, Java, C++, Verilog, SQL

Research areas of interest:

Reinforcement learning