Lin Chieh-Ting 林詰庭

Engineering Graduate

Chieh-Ting is the quintessential student who embodies the spirit of lifelong learning. Her thirst for knowledge and her willingness to embrace new challenges make her an ideal role model for anyone looking to expand their horizons and achieve their full potential.

Contact

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Education

2021 - Present
College of Artificial Intelligence
National Yang Ming Chiao Tung University (NYCU)

2017 - 2021
Department of Electrical Engineering
National University of Tainan

Expertise

- Python
- C/C++
- Verilog
- JavaScript
- PowerShell
- R
- Dart
- Kotlin

- PyTorch
- TensorFlow
- scikit-learn
- Matplotlib
- OpenCV
- Numpy

- SQL
- MarkDown
- LaTeX
- Trello
- Excel
- Git

Projects

2020
Multifaceted Marvel: FPGA WiFi Display, Server Processing, and Cross-platform App Development for Online Gaming

I have created an online game similar to battleship by designing and manufacturing PCB and programming an FPGA using VHDL from scratch, and integrating a cross-platform application with Firebase as the backend. This project has equipped me with the ability to design and integrate complete systems while validating my interest in this field.

2020 - 2021
Intelligent Surveillance System

This system is designed using cutting-edge technology, including a TI's millimeter-wave radar sensor for point cloud data collection, machine learning algorithms for analysis, and facial recognition technology for identifying individuals. The system is engineered with a focus on efficiency and low power consumption while providing users with convenient access to video footage organized by either individual or time through a user-friendly interface.

- **結合FaceNet影像辨識、雲端系統與雷達目標識別之半開放空間智慧監視系統** - Research Grants for Undergraduate Students, MOST-109-2813-C-024-031-E
- **智能調閱指定人物影像監視系統** - The 26th TANET, Taipei, Taiwan, Oct. 28-30, 2020.

2020 - Present NYCU & Taichung Veterans General Hospital
Head and Neck Lymphatic Research

In this research project, I collaborated closely with hospital physicians. Within a short timeframe, we have had three papers accepted as e-posters and one of these paper was submitted to a prestigious international journal with an impact factor of 8.6. This project has improved my ability to communicate effectively with interdisciplinary experts and establish streamlined workflows to maximize efficiency.

- **針對口腔鱗狀細胞癌患者的術前電腦斷層影像使用深度學習來辨識淋巴結莢膜外侵犯** - The 26th Taiwan Joint Cancer Conference, TJCC, Taipei, Taiwan, Apr. 30 – May 1, 2022.
- **Identification of Extranodal Extension for Patients with Squamous Cell Carcinoma of Oral Cavity in Pretreatment Computed Tomography Using Deep Learning Networks** - International Journal of Radiation Oncology, Biology, Physics 114, no. 3 (2022): e120-e121. & 2023 Annual Meeting of the American Society for Radiation Oncology.
- **3D-Resnet: a model for lymph node metastasis recognition from HNSCC on pre-treatment tomography** - 2023 Congress of European Society for Radiotherapy and Oncology, Accept.
- **Head and Neck high-risk lymph nodes detection – a three-dimensional deep learning proposal** - 2023 Congress of European SocieTy for Radiotherapy and Oncology, Accept.

2021 - Present NYCU & Pervasive AI Research (PAIR) lab
Thermal-Guided Human Image Generation Research

We improved upon a previous project and developed a new process and method to make it more applicable to real-life settings. Our work was accepted for presentation at an international conference.

- **Privacy-Preserving Video Conferencing via Thermal-Generative Images** - 2023 IEEE International Conference on Robotics and Automation (ICRA), Accept.