YEN-JU CHEN

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EDUCATION

National Central University, M.S in Computer Science & Information Engineering 2020 - 2022
Thesis Topic: Detecting Driver Intention by Taillight Signals via Sequential Learning.

Fu Jen Catholic University, B.S in Computer Science & Information Engineering 2016 - 2020

SKILLS

Machine Learning, Deep Learning, Software Engineering, Database Management
Programming Languages : C++, Python, MySQL

EXPERIENCE

Graduate Student Researcher 2020 - 2022
Wireless Ad-Hoc and Sensor Networks Lab, National Central University

- Advisor: Min-Te (Peter) Sun
- Research topic: Implementing 5G Networks Using Blockchain
    - Optimized connection verification security

Teaching Assistant 2021
National Central University

- Discrete Mathematics
- Introduction to Deep Learning

PROJECTS

Taillight Recognizer A time-series system to recognize the front driver's intent

- Using Tensorflow.
- A longer sequence of 32 frames is used as input to capture the complete change of taillights.
- Adopted a classical convolutional neural network and a light-weight WaveNet to extract spatial and temporal features of the input sequence, respectively.
- Experimental results show that our system outperforms the state-of-the-art methods by more than 5% for most categories of taillight recognition.

Smart Pillbox An IoT pill box with reminder function

- Created an IoT pillbox with Arduino and sensors.
- Used Web(HTML, CSS, PHP), mobile(Android Studio) as UI.
- Built a patient database, medication reminder system and dispensing management system with MySQL.