



## Sean Chen 陳佑翔

NTNU, CSIE

[n60512@gmail.com](mailto:n60512@gmail.com) | 886-975-913-335

New Taipei City, Taiwan | [GitHub](#)

## Summary

---

- Skilled in deep learning, natural language processing and recommendation system.
- Strong experiences in modelling user-item interaction.

## Experiences & Project

---

### ■ Master Thesis

#### Explainable Recommendation System for Solving Review Loss

- We proposed a recommendation system named HANN-Plus.
- HANN-Plus achieves an improvement in rating prediction compared to several state-of-the-art approaches.
- HANN-Plus can simulate user experience by generate textual explanation.
- HANN-Plus solve the review loss problem in review-based recommendation system.

---

### </> Thinking APP (Android)

- Thinking is a game for creativity evaluation.
- Through the four simple games in the app, the fluency, variability and originality of the creative thinking of users can be evaluated. Users can also understand themselves creative ability.

---

### </> Thinking Score Mechanism

- We used a variety of machine-learning methods to design the scoring mechanism of Thinking.
- First, implement fastText pre-trained word embedding. Then calculate the similarity of users' answers. Non-repetitive concept will be counted as points.

---

### ■ Independent Study

#### Navigation System with Multiple Feature

- We present an extended A-star algorithm with real-time traffic and turning costs to predict the best path planing.
- Real-time traffic database construction.
- User interface design by using Open Street Map API and Google Map API.

---

### </> Software Engineer Intern

#### Foundation for National Education Assessment Center

- Develop a framework to automatically read e-books and build a corpus using Selenium with C#.

## EDUCATION

- National Taiwan Normal University , 2018 ~ 2020  
Department of Computer science & Information Engineering, Data Mining Lab
- National Kaohsiung University of Applied Sciences , 2014 ~ 2018  
Department of Computer science & Information Engineering, Intelligent System Lab