

## **RESEARCH INTEREST**

- Deep Learning
- Model Compression
- Object Detection
- Visualization

## **EDUCATION**

### **Hallym University**

Aug 2019 – Present

*M.E. in Computer Engineering*

### **Hallym University**

Mar 2014 – Aug 2019

*B.E. in Computer Engineering*

## **PUBLICATIONS**

- J.Jeong, D.Kim, Y.Woo, J.Lee Filter Combination Learning for Convolutional Neural Network. In International Conference on Information and Communication Technology Convergence (ICTC)
- Y.Woo, D.Kim, J.Jeong, Y.Ko, J.Lee Zero-Keep Filter Pruning for Energy Efficient Deep Neural Network. In International Conference on Information and Communication Technology Convergence (ICTC)
- J.Jeong, S.Ham, J.Son, J.Lee. Deep learning CAM-based interpretation-possible image visualization Development of open source software tools. In The institute of Electronics and Information Engineers (IEIE)
- M.Kim, B.Lim, S.Lim, J.Jeong, J.Lee. Parameter Optimization of Deep Neural Network: MNIST Case Study. In The institute of Electronics and Information Engineers (IEIE)

## **WORK EXPERIENCE**

### **FrontU**

Jul 2019 – Aug 2019

*Development of Smart Toy*

- Smart Toy development using voice recognition.
- Google Assistant

### **FrontU**

Jan 2019 – Feb 2019

*Development of Smart Toy*

- Smart Toy development using image processing.
- Face Detection

### **FrontU**

Jul 2018 – Aug 2018

*Development of Smart Toy*

- Smart Toy development using sensors(ultrasound, motor).
- Arduino

## **PROJECTS**

### **Darknet Book**

- Documented the well-known open source Darknet.

### **Pytorch KR**

- Pytorch Official Tutorial Korean Translation
  - Translated Model Interpretability using Captum.
  - Translated Neural Transfer using Pytorch.
  - Translated Quantized Transfer Learning for Computer Vision Tutorial.

### **DeepVisual**

- Deep learning visualization tool.
- PyQt5
- CAM, Grad CAM, Guided Gradient, Smooth Gradient, Vanila Gradient

### **People Counting YOLO**

- People counting in embedded devices.

- Neural Compute Stick 2
- Object Detection

#### **AWARDS**

- 3<sup>rd</sup> place, Accelerated Programming Winter School, Manycoresoft, 2019
- 2<sup>nd</sup> place, Precipitation Calculation using Satellite Observation Data, Daycon, 2020

#### **CERTIFICATES**

- Engineer Information Processing. In Human Resources Development Service of Korea