# Youngjo Lee

*C607, The 3rd Eng. building, Yonsei University, 50 Yonsei-ro, Seodaemun-Gu, Seoul, 120-749, Korea*

(+82) 10-8954-5677 | lzozo95@yonsei.ac.kr

## Interests

Computer Vision, video object segmentation, image-to-image translation

## Education

**Yonsei University (Advisor: Prof. Euntai Kim)** — *Seoul, Korea*

PH.D. IN ELECTRICAL & ELECTRONIC ENGINEERING — *Sep. 2019 - Present*

**Yonsei University** — *Seoul, Korea*

B.S. IN ELECTRICAL & ELECTRONIC ENGINEERING — *Mar. 2013 - Aug. 2019*

## Experience

**Yonsei University** — *Seoul, Korea*

RESEARCH ASSISTANT @ CILAB — *Sep. 2019 - Present*

Participation in several research projects

**Yonsei University** — *Seoul, Korea*

TEACHING ASSISTANT — *Mar. 2020 - Jun. 2021*

- Artificial Intelligence 101
- Introduction Artificial Intelligence
- Intelligent Control

## Publications

### CONFERENCE

**Iteratively Selecting an Easy Reference Frame Makes Unsupervised Video Object Segmentation Easier**

Youngjo Lee, Hongje Seong, and Euntai Kim

AAAI Conference on Artificial Intelligence (AAAI), February, 2022.

**Improving Nighttime Object Detection by Generating Synthetic Nighttime Dataset from Daytime Dataset**

Youngjo Lee, Suhyeon Lee, Hongje Seong, and Euntai Kim

International Conference on Control, Automation and Systems (ICCAS), October, 2021.

## Awards

2021 **Best Poster Paper Award,** ICCAS 2021 — *Jeju, Korea*

## Patents

**Apparatus for predicting traffic line of box-level multiple object using only position information of box-level multiple object**

Euntai Kim, Youngjo Lee, Hongje Seong and Junhyuk Hyun

Korea - Application No. 10-2020-0149533

**Apparatus for predicting movement of box-level object using only position information of box-level object**

Euntai Kim, Youngjo Lee, Hongje Seong and Junhyuk Hyun

Korea - Application No. 10-2020-0149532

**Pixel Level Video Object Tracking Apparatus Using Box Level Object Position Information**

Euntai Kim, Hongje Seong, Youngjo Lee and Junhyuk Hyun

Korea - Application No. 10-2020-0030214

International (PCT) - Application No. PCT/KR2020/005383

## Projects

**Development of Driving Environment Data Transformation and Data Verification Technology for the Mutual Utilization of Self-driving Learning Data for Different Vehicles**

Institute of Information & Communications Technology Planning & Evaluation (IITP) *Apr. 2021 - Present*

**Research on Fundamental Technology for Deep Learning-Based Semantic State Understanding**

National Research Foundation of Korea (NRF) *Sep. 2019 - Dec.2020*

## Languages & Skills

### Languages

**Korean, English**

### Skills

**Python, Pytorch, C, C++, Matlab**