

Intelligent Computer Vision Software Laboratory (ICVSLab.), Department of Electronic Engineering, Yeungnam University 301-1 E22, 280 Daehakro, Gyeongsan, Gyeongbuk, 38541 Korea

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"The only person you should try to be better than is the person you were yesterday."

Education

Yeungnam University

Gyeongsan, S.Korea

Mar. 2022 - Present

M.S. IN ELECTRONIC ENGINEERING

Research Areas: Image generation, medical image processing (X-ray image), and semiconductor process predicting.

· Advisor: Prof. Hyun-Chul Choi

Yeungnam University

Gyeongsan, S.Korea

Mar. 2016 - Feb. 2022

B.S. IN ELECTRONIC ENGINEERING

Cumulative GPA: 4.08 / 4.5 (Major: 4.21 / 4.5)

Skills

Programming Python, PyTorch, Flask, Matlab

Tools LaTeX, Notion, Github, WandB

Korean, English (OPIc: IH-Intermediate High) Languages

Projects_

Vertebral landmark detection on X-ray image

M.S. Student

MEDICAL IMAGE PROCESSING Mar. 2022 - Present

• Detect the corner points of the lumbar vertebrae and sacrum(S1).

Machine Learning for Semiconductor (Collaborated with POSTECH)

B.S Student - M.S Student

Oct. 2021 - Feb. 2023

• Predict the results of the semiconductor process.

PREDICT SEMICONDUCTOR PROCESSING RESULT

Pose Transfer

IMAGE GENERATION (GENERATIVE ADVERSARIAL NETWORK)

B.S Student - M.S Student Mar. 2021 - May 2022

- In the human domain using a dataset consisting of lab members' videos. (Mar. 2021 July. 2021)
- In the cartoon domain and the human domain using datasets consisting of Mixamo and Fashion Dataset. (Nov. 2021 May. 2022)
- Project Page

Motorcycle motion-based automatic illegal driving detecting system (Graduation Project)

B.S Student

OBJECT DETECTION & ACTION RECOGNITION

May 2021 - Nov. 2021

• Determine whether a detected motorcycle is illegally driven at a crosswalk.

R S Student

IMAGE INPAINTING & IMAGE GENERATION (GENERATIVE ADVERSARIAL NETWORK)

Jan. 2021 - Apr. 2021

· Hire people for constructing a server and making an application, and develop an application to remove masks from a mask-wearing image.

• Demo

Awards

Naver Paper Award

ANNUAL SUMMER CONFERENCE OF THE INSTITUTE OF ELECTRONICS AND INFORMATION ENGINEERS (IEIE)

M S Student June 2022

· Cartoon Pose Transfer

Take Off Your Mask!

· Image, Paper

ELECTRONIC ENGINEERING DEPARTMENT OF YEUNGNAM UNIVERSITY

· Automatic Motorcycle Illegal Driving Detection System

Image

Patents

Apparatus and method for pose transformation

S Koreo

PATENT APPLICATION

Aug. 2022

Cartoon Pose Transfer.

Method Of Detecting ILLEGAL DRIVING AND APPARATUS THEREOF

S.Korea

PATENT APPLICATION Dec. 2021

• Determine whether a detected motorcycle is illegally driven at a crosswalk.

Graduation Project

Publications

INTERNATIONAL

Part Affinity Fields and CoordConv for Detecting Landmarks of Lumbar Vertebrae and Sacrum in X-ray Images

CHANG-HYEON AN, JEONG-SIK LEE, JUN-SOO JANG, AND HYUN-CHUL CHOI.

Nov. 2022

MDPI Sensors, vol. 22 (22), 8628. DOI: 10.3390/s22228628.

A Review of Multi-Modal Learning from the Text-Guided Visual Processing Viewpoint

UBAID ULLAH, JEONG-SIK LEE, CHANG-HYEON AN, HYEONJIN LEE, SU-YEONG PARK, ROCK-HYUN BAEK, AND HYUN-CHUL Сног

Sep. 2022

• MDPI sensors, vol. 22 (18), 6816. DOI: 10.3390/s22186816.

Accurate and Reliable Parameter Optimization of Regressional Neural Network for **Semiconductor Technology Development**

HYEOK YUN*, CHANG-HYEON AN*, HYUNDONG JANG, KYEONGRAE CHO, AND JEONG-SIK LEE, SEUNGJOON EOM, CHOONG-KI KIM, MIN-SOO YOO, HYUN-CHUL CHOI, AND ROCK-HYUN BAEK (*EQUAL CONTRIBUTION)

May. 2023

· Advanced intelligent systems. Accepted.

Cartoon Pose Transfer

CHANG-HYEON AN AND HYUN-CHUL CHOI.

Feb. 2023

· Neurocomputing. Under Revision.

DOMESTIC

Cartoon Pose Transfer Jeju, S.Korea

CHANG-HYEON AN AND HYUN-CHUL CHOI.

June 2022

· Annual Summer Conference of The Institute of Electronics and Information Engineers (IEIE)-link

Pose Transfer using AdaIN and Generative Adversarial Network

Jeju, S.Korea

CHANG-HYEON AN, JEONG-SIK LEE, SU-YEONG PARK, AND HYUN-CHUL CHOI.

Annual Summer Conference of The Institute of Electronics and Information Engineers (IEIE)-link

Experience

July 2020 -Research Intern, Intelligent Computer Vision Software Laboratory(ICVSLab) Feb. 2022

Yeungnam University

July 2022 Attend, IEEE WORLD CONGRESS ON COMPUTATIONAL INTELLIGENCE(WCCI)

Padua, Italy

Oct. 2022 Attend, European Conference on Computer Vision(ECCV)

Tel Aviv, Israel