

In-Hyuk Choi

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Education

Korean Advanced Institute of Science and Technology(KAIST)

M.S. STUDENT IN SCHOOL OF ELECTRICAL ENGINEERING

- LIT Lab. (Advisor: Prof. Hyuncheol Park)

Daejeon, S.Korea

Mar. 2023 - Present

Jeonbuk National University(JBNU)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Valedictorian
- GPA: 4.48/4.50

Jeonju, S.Korea

Mar. 2019 - Feb. 2023

Research Interests

Machine Learning, Reinforcement Learning, Coding Theory, Information Theory, Wireless Communication

Publications

INTERNATIONAL JOURNALS

- **In-Hyuk Choi** and Il-Seok Oh, "Weighted edit distance optimized using genetic algorithm for SMILES-based compound similarity, Pattern Analysis and Applications (2023). [Available](#)

DOMESTIC CONFERENCES

- Ji-Hyeon Hur, Si-nae Jeong, **In-Hyuk Choi**, Min-Woo Kim, Tae-Woong Yoo and Il-Seok Oh, "Precision benchmarking of deep learning-based apple detectors for automatic apple harvesting", Korea Software Congress (KSC), 2021.
- Ji-Hyeon Hur, **In-Hyuk Choi**, Si-nae Jeong, Dasom Seo, Jin Gook Kim and Il-Seok Oh, "A Transformer Model for Fruit Segmentation and Growth Monitoring from Peach Tree Images", Korea Software Congress (KSC), 2022.

Experience

Computer Vision Lab.

INTERNSHIP (ADVISOR: PROF. IL-SEOK OH)

- Learn the basics and applications of pattern recognition and computer vision algorithms
- Detection and segmentation project for agricultural and medical images

Jeonju, S.Korea

Sep. 2020 - Dec. 2022

Presentation

2022 SW Festival

PRESENTER FOR <REAL-TIME FACE SWAP APPLICATION USING GOOGLE'S MEDIAPIPE>

- Introduced Google's MediaPipe, a powerful Real-time Computer Vision Framework.
- Introduced face-swap application in real-time using MediaPipe's faceMesh.
- [Presentation Link \(1:51:18 - 1:56:00\)](#)

Seoul, S.Korea

Dec. 2022

Honors & Awards

DOMESTIC

2023	President's Award , Excellent Graduate Award	Jeonju, S.Korea
2022	President's Award , Academic Achievement Award	Jeonju, S.Korea
2022	Grand Award , Asia Seoul National First Round Programming Contest@JBNU	Jeonju, S.Korea
2022	Grand Award , Artificial Intelligence Project Presentation	Jeonju, S.Korea
2022	Gold Award , Software Creation Competition	Jeonju, S.Korea
2022	36th Place , Seoul Regional Onsite Contest	Ilsan, S.Korea
2021	President's Award , Academic Achievement Award	Jeonju, S.Korea
2021	Excellence Award , Artificial Intelligence Project Presentation	Jeonju, S.Korea
2021	Gold Award , Asia Seoul National First Round Programming Contest@JBNU	Jeonju, S.Korea
2021	51st Place , Seoul Regional Onsite Contest	Seoul, S.Korea
2020	President's Award , Academic Achievement Award	Jeonju, S.Korea
2020	Gold Award , Software Creation Competition	Jeonju, S.Korea
2020	Excellence Award , Idea Hackathon	Jeonju, S.Korea
2020	Bronze Award , Asia Seoul National First Round Programming Contest@JBNU	Jeonju, S.Korea
2020	Encouragement Award , Game Development Competition	Jeonju, S.Korea

Certificates

- Engineer Information Processing

Extracurricular Activity

ALPS (Algorithm & Programming Study Group)

S.Korea

CORE MEMBER & PRESIDENT@2022

Feb. 2020 - Dec. 2022

- Responsible for decision-making and overall operation of the group for academic improvement
- Gained knowledge of basic and advanced algorithms

Data Structure & Algorithm Study

Jeonju, S.Korea

LEADER

Mar.2022 - Dec.2022

- **Keywords: Algorithm, Data Structure**
- Responsible for data structure/algorithm study for 1 year
- Operate in 2 data structures and 3 algorithms classes