

CURRICULUM VITAE

Jaehyeok Shim

[Email] | [GitHub] | [Homepage]

(last update: May 18, 2023)

EDUCATION

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| Ulsan National Institute for Science and Technology (UNIST)
<i>The Master Course, Artificial Intelligence Graduate School</i>
Advisor: Prof. Kyungdon Joo | Ulsan, Republic of Korea
<i>Sep. 2021 – Present</i> |
| Seoul National University for Science and Technology (SNUT)
<i>Department of Information and Electricity</i>
<i>Unmanned Software Engineering Program Track (Double Major)</i>
Advisor: Prof. Yeejin Lee | Seoul, Republic of Korea
<i>Mar. 2015 – Aug. 2021</i> |

RESEARCH EXPERIENCES

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| 3D Vision & Robotics Lab, UNIST
<i>The Master Course, [link]</i> | Ulsan, Republic of Korea
<i>Sep. 2021 – Present</i> |
| Visual Computing Lab, SNUT
<i>Undergraduate Researcher, [link]</i> | Seoul, Republic of Korea
<i>Jun. 2020 – Aug. 2021</i> |

INTERNATIONAL CONFERENCES

- [IC.1] **Jaehyeok Shim**, Changwoo Kang, Kyungdon Joo. Diffusion-Based Signed-Distance-Fields for 3D Shape Generation. CVPR 2023. [Project Page]

AI COMPETITIONS

- [C.9] **KYOWON Group OCR Challenge, DACON.**
(Dec. 2022) Rank 7/430 (2% win) [Site]
OCR task of the Korean language. Improved accuracy with transfer learning of ConvNeXT by proposing language-specific loss.
- [C.8] **NAVER CLOVA AI-RUSH 2022 Round 2, NAVER CLOVA.**
(Aug. 2022) Rank 7/15 (46%) [Site]
A task that regresses a specific score of a given image. Improved accuracy with transfer learning of CoaT with various augmentation.
- [C.7] **NAVER CLOVA AI-RUSH 2022 Round 1, NAVER CLOVA.**
(Aug. 2022) Rank 15/27 (56%) [Site]
A task that classifies given images. Improved accuracy through transfer learning of Efficient-NetV2 with various augmentations.

- [C.6] **Ego-Vision Hand Gesture Recognition AI Contest, NIA; DAICON.**
(Jun. 2021) Rank 3/290 (1%, win) [Code] [Site]
 Classifies hand gestures from given images. Achieved high accuracy with transfer learning of EfficientNetV2 with cross-validation.
- [C.5] **News Topic Classification AI Contest, DAICON.**
(May. 2021) Rank 3/256 (1%, win) [Code] [Site]
 Classifies topics of given text articles. Improved accuracy with Noisy Student training strategy about the BeRT-based model.
- [C.4] **NAVER CLOVA AI-RUSH 2021 Round2, NAVER CLOVA**
(May. 2021) Rank 6/13 (46%) [Site]
 Clustering of given text dataset. Improved model performance with self-supervised learning.
- [C.3] **NAVER CLOVA AI-RUSH 2021 Round1, NAVER CLOVA**
(Apr. 2021) Rank 4/35 (11%) [Site]
 Classification of given image dataset with limited model capacity. Achieved high accuracy with transfer learning of EfficientNetV2 with careful hyperparameter tuning.
- [C.2] **Predicting Danger of System Log Messages, KAERI; DAICON**
(Apr. 2021) Rank 2/152 (1%, win) [Site] [Description] [Code]
 Finding out-of-distribution data that does not appear in the training dataset. I achieved high accuracy with DistilBeRT-based anomaly detection.
- [C.1] **Finding Human Key-Points from Motion Images, DAICON**
(Feb. 2021) Rank 1/156 (1%, win) [Site] [Description] [Code]
 Estimating human key points from a given image dataset. I fine-tuned HRNet and EfficientDet and achieved high accuracy by proposing novel data-driven augmentations.

MILITARY SERVICE

Completing Military Service as a Sergeant

The 1st Division, Computer Technician

Paju, Republic of Korea

Aug. 2016 – May. 2018