Jeongwan On（온정완）

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⌂ GitHub Profile
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Research Interest

- 3D Mesh Reconstruction / Hand Pose Estimation.

Education

24. Sep -	**Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea.** *Combined MS/PhD Student* Artificial Intelligent Graduate School (AIGS) Advisor: Seungryul Baek
18. Mar - 24. Feb	**Chonnam National University, Gwangju, Korea.** *Bachelor Student* Department of Statistics

Publications

ECCV 2024	Z. Fan, T. Ohkawa, L. Yang, N. Lin, Z. Zhou, S. Zhou, J. Liang, Z. Gao, X. Zhang, X. Zhang, F. Li, L. Zheng, F. Lu, K. Zeid, B. Leibe, **J. On**, S. Baek, A. Prakash, S. Gupta, K. He, Y. Sato, O. Hilliges, H. Chang, A. Yao, "EgoHANDS: benchmarks and challenges for egocentric hand pose estimation under hand-object interaction". In European Conference on Computer Vision (**ECCV**), 2024. (Accepted)
ICASSP 2024	J. Kim, S. Hong, C. Kim, J. Kim, Y. Tiruneh, **J. On**, J. Song, S. Choi, and S. Baek, "Class-Wise Buffer Management for Incremental Object Detection: An Effective Buffer Training Strategy" in International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2024.
IEIE 2023	J. Cha, J. Kim, S. Choi, **J. On** and S. Beak, "단안 비디오를 활용한 객체의 3D 바운딩 박스 추정 및 속력 계산, 움직임 예측" in Autumn Annual Conference of IEIE, 2023.
IEIE 2023	J. Kim, S. Hong, J. Kim, **J. On**, C. Kim, Y. Tiruneh, J. Song, S. Choi, S. Beak, "Reducing data imbalancing for Object Detection" in Summer Annual Conference of IEIE, 2023.

Honors and Awards

2024. Sep	**1st place at 2024 ECCV hand challenge (Bimanual category-agnostic interaction reconstruction)**, ECCV, 2024.
2023. Oct	**3rd place at 2023 ICCV hand challenge (Consistent Motion Reconstruction)**, ICCV, 2023.
2023. Nov	Best Undergraduate Paper Award, Chonnam National University, 2023.

2023. Sep	2nd prize at AI idea contest, gwangju information & culture industry promotion agency (GI-CON), 2023.
2022. Dec	Outstanding Intern Award, ICT Academic Project, Euclidsoft Co., Ltd., 2022.
2022. Oct	1st prize at Bigdata competition, Chonnam National University, 2022.
2021. Oct	3rd prize at Bigdata competition, Chonnam National University, 2021.

Experience

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23. Mar - 24. Aug. **UNIST Vision and Learning Lab (UVLL).**   📍 *Ulsan, Korea*
Researcher, Research Intern
3D Reconstruction / Hand pose estimation
Transformer based object detection

22. Sep - 22. Dec **Euclidsoft Co., Ltd.**   📍 *Daeojeon, Korea*
*Internship at Development team **(Received Outstanding Intern Award)***
Model optimization (TensorRT, CUDA Stream)
Object detection

Projects

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23. Mar - present "Development of Vision Recognition Module for ARTG Control", Ministry of Oceans and Fisheries.

- **Development of Driving Autosteering Algorithm and Module** through Vision part.

22. Aug - 23. Aug. "Expanding Data Coverage through Incremental Learning and Development Integrated Domain Recognition Systems", LG Electronics.

- **Conversion from pytorch model to tflite** for edge device.

- Development of **Object Detection** algorithm.

Open Source

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onnx2tf
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"Self-Created Tools to convert ONNX files (NCHW) to TensorFlow/TFLite/Keras format (NHWC)."

- **Add a new parameter** called —custom_input_op_name_np_data_path(cind), in PR #296

- **Add additional information** about the -cind option to the README, in PR #307

- **Raise some issues**, in Issue #275, #282, #290, #308

nobuco
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"Pytorch to Tensorflow conversion made somewhat easy."

- **Add the sin and cos operators**, in PR #5

- **Add new implementation** of the prelu, in PR #7