



JAESOON BAIK

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RESEARCH INTERESTS

Primary research interests

Active learning/Long-tailed Learning/Learning with Noisy Labels

Additional research interests and experiences

Interpretable model/Semi-supervised learning/Class incremental learning, Multi-modal representation learning

EDUCATION

Hanyang University | *Ph.D. candidate*

Department of Electrical Engineering (Advisor: Jun Won Choi)

GPA: 4.39/4.5

Sep. 2019 – Present

Seoul, Korea

Hanyang University | *M.S.*

Department of Automotive Engineering (Advisor: Jahng Hyon Park)

Thesis: "Online Learning Based Object Tracker with Deep Reinforcement Learning"

GPA: 4.18/4.5

Sep. 2017 – Aug. 2019

Seoul, Korea

Hanyang University | *B.S.*

Mechanical Engineering

GPA: 3.81/4.5

Mar. 2010 – Aug. 2017

Seoul, Korea

RESEARCH PROJECTS

Representation learning for long-tailed object detection and instance segmentation.

Enhancing representation learning on long-tailed dataset

2023 – Present

Open vocabulary object detection.

Object detection task using open vocabulary

2024 – Present

PUBLICATIONS

ST-CoNAL: Consistency-based acquisition criterion using temporal self-ensemble for active learning.

J.S. Baik, I.Y. Yoon, and J.W. Choi

Published in ACCV, 2022. (<https://arxiv.org/abs/2112.07116>)

DBN-Mix: Training dual branch network using bilateral mixup augmentation for long-tailed visual recognition.

J.S. Baik, I.Y. Yoon, and J.W. Choi

Published in Pattern Recognition, 2023. (<https://arxiv.org/abs/2207.02173>)

Learning from data with noisy labels using temporal self-ensemble.

J.H. Lee*, J.S. Baik*, T.H. Hwang*, and J.W. Choi

Available in ArXiv. (<https://arxiv.org/abs/2207.10354>)

DaSS: Distribution-aware sample selection for learning with long-tailed noisy data.

J.S. Baik, I.Y. Yoon, and J.W. Choi

Submitted to ECCV, 2024.

WORK EXPERIENCE

Undergraduate Research Intern.

Aug. 2016 – Dec. 2016

BMAL at Hanyang University.

Seoul, Korea

- Designed and Manufactured PCBoard for identifying and sensing hazardous chemicals in the air

Military Service.

Jan. 2011 – Oct. 2012

Sergeant

TEACHING EXPERIENCE

Probability and statistics theory.

Mar. 2024 – Aug. 2024

Teaching at Hanyang University

HONORS AND AWARDS

Graduation Honor Student.

2017

GPA above 3.75 at Hanyang University

Semester Honor Student.

2013, 2016

GPA above 3.75 at Hanyang University

Academic Honor Scholarship.

2014

Merit-based scholarship

Corps Commander Commendation (in Military Service).

2012

Awarded to 1st place in squad leader training

SKILLS

Programming: Python (NumPy, SciPy, Matplotlib, Pandas), C++, MATLAB

Deep learning tools: Pytorch, Tensorboard, Keras

Document: MS office, LaTeX