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EDUCATION

Hanyang University <i>Ph.D. candidate</i> Department of Electrical Engineering (Advisor: Jun Won Choi) GPA: 4.39/4.5	Sep. 2019 – Present Seoul, Korea
Hanyang University <i>M.S.</i> 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 <i>B.S.</i> Mechanical Engineering GPA: 3.81/4.5	Mar. 2010 – Aug. 2017 Seoul, Korea

RESEARCH PROJECTS

Noisy Long-tailed Learning on Classification. Classifying samples with class imbalance and noisy labels	Jan. 2023 – Present
Counterfactual explantion for enhancing interpretability and performance. Designing high-performance interpretable model using prototypical part	Apr. 2023 – Present
Open World 2D Object Detection. Object detection task on open world problem (class incremental + open set detection)	Jun. 2023 – 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)	
Representation learning with contextual prototypes for long-tailed instance segmentation. J.S. Baik, I.Y. Yoon, and J.W. Choi Under review, 2023.	
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)	

WORK EXPERIENCE

Undergraduate Research Intern. BMAL at Hanyang University. <ul style="list-style-type: none">Designed and Manufactured PCBoard for identifying and sensing hazardous chemicals in the air	Aug. 2016 – Dec. 2016 Seoul, Korea
Military Service. Sergeant	Jan. 2011 – Oct. 2012

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: Pytorch, Python (NumPy, SciPy, Matplotlib, Pandas), C++, MATLAB
Document: MS office, LaTeX